



**Kwame Nkrumah University
of Science and Technology
Kumasi**

Quality Assurance Bulletin



Volume 18, 2021



Kwame Nkrumah University of
Science and Technology

QUALITY ASSURANCE BULLETIN

Volume 18

Contents

<i>Foreword</i>	<i>vi</i>
<i>Preface</i>	<i>vii</i>
<i>Summary of Research Output for 2018/2019 and 2019/2020</i>	<i>viii</i>
COLLEGE OF ART AND BUILT ENVIRONMENT	1
CENTRE FOR SETTLEMENTS STUDIES.....	1
DEPARTMENT OF ARCHITECTURE.....	3
DEPARTMENT OF EDUCATIONAL INNOVATIONS IN SCIENCE AND TECHNOLOGY	8
DEPARTMENT OF INDUSTRIAL ART	14
DEPARTMENT OF LAND ECONOMY.....	22
DEPARTMENT OF PAINTING AND SCULPTURE.....	25
DEPARTMENT OF CONSTRUCTION TECHNOLOGY AND MANAGEMENT.....	30
DEPARTMENT OF COMMUNICATION DESIGN	39
DEPARTMENT OF PLANNING.....	42
DEPARTMENT OF TEACHER EDUCATION.....	47
DEPARTMENT OF PUBLISHING STUDIES.....	49
COLLEGE OF AGRICULTURE AND NATURAL RESOURCES	51
BUREAU OF INTEGRATED RURAL DEVELOPMENT (BIRD).....	51
DEPARTMENT OF AGRICULTURAL ECONOMICS, AGRIBUSINESS AND EXTENSION	55
DEPARTMENT OF ANIMAL SCIENCE.....	57
DEPARTMENT OF CROP AND SOIL SCIENCES	65
DEPARTMENT OF FISHERIES AND WATERSHED MANAGEMENT	68
DEPARTMENT OF FOREST RESOURCES TECHNOLOGY.....	71
DEPARTMENT OF SILVICULTURE AND FOREST MANAGEMENT.....	73
DEPARTMENT OF WILDLIFE AND RANGE MANAGEMENT	76
DEPARTMENT OF HORTICULTURE.....	78
DEPARTMENT OF AGROFORESTRY	80
DEPARTMENT OF WOOD SCIENCE AND TECHNOLOGY	83
COLLEGE OF HEALTH SCIENCES	84
DEPARTMENT OF ANAESTHESIOLOGY AND INTENSIVE CARE	84
DEPARTMENT OF BEHAVIOURAL SCIENCES	85
DEPARTMENT OF CHILD HEALTH	85
DEPARTMENT OF CLINICAL MICROBIOLOGY	89
DEPARTMENT OF EYE, EAR, NOSE AND THROAT	91
DEPARTMENT OF MEDICINE	92
DEPARTMENT OF MOLECULAR MEDICINE.....	96
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY	101

DEPARTMENT OF RADIOLOGY.....	103
DEPARTMENT OF ANATOMY.....	105
DEPARTMENT OF PHYSIOLOGY.....	107
DEPARTMENT OF SURGERY.....	109
DEPARTMENT OF CHILD ORAL HEALTH AND ORTHODONTICS.....	118
DEPARTMENT OF ORAL AND MAXILLOFACIAL SCIENCES.....	119
KUMASI CENTRE FOR COLLABORATIVE RESEARCH (KCCR).....	120
DEPARTMENT OF HERBAL MEDICINE.....	130
DEPARTMENT OF PHARMACEUTICAL CHEMISTRY.....	131
DEPARTMENT OF PHARMACEUTICS.....	134
DEPARTMENT OF PHARMACOGNOSY.....	138
DEPARTMENT OF PHARMACY PRACTICE.....	142
DEPARTMENT OF PHARMACOLOGY.....	146
DEPARTMENT OF MEDICAL DIAGNOSTICS.....	152
DEPARTMENT OF NURSING.....	158
DEPARTMENT OF PHYSIOTHERAPY AND SPORTS SCIENCE.....	164
DEPARTMENT OF HEALTH POLICY, MANAGEMENT AND ECONOMCS..	166
DEPARTMENT OF COMMUNITY HEALTH.....	168
DEPARTMENT OF EPIDEMIOLOGY AND BIostatISTICS.....	170
DEPARTMENT OF GLOBAL AND INTERNATIONAL HEALTH.....	174
DEPARTMENT OF POPULATION, FAMILY AND REPRODUCTIVE HEALTH.....	178
DEPARTMENT OF PUBLIC HEALTH & EPIDEMIOLOGY.....	181
DEPARTMENT OF PATHOBIOLOGY,.....	182
DEPARTMENT OF CLINICAL STUDIES.....	188
DEPARTMENT OF ANATOMY AND PHYSIOLOGY.....	189
COLLEGE OF ENGINEERING.....	191
DEPARTMENT OF COMPUTER ENGINEERING.....	191
DEPARTMENT OF AGRICULTURAL AND BIOSYSTEMS ENGINEERING.....	193
DEPARTMENT OF CIVIL ENGINEERING.....	200
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING.....	206
DEPARTMENT OF GEOLOGICAL ENGINEERING.....	208
DEPARTMENT OF GEOMATIC ENGINEERING.....	211
DEPARTMENT OF MATERIALS ENGINEERING.....	215
DEPARTMENT OF MECHANICAL ENGINEERING.....	218
DEPARTMENT OF PETROLEUM ENGINEERING.....	223
DEPARTMENT OF TELECOMMUNICATION ENGINEERING.....	226
DEPARTMENT CHEMICAL ENGINEERING.....	240
COLLEGE OF HUMANITIES AND SOCIAL SCIENCES.....	242
DEPARTMENT OF SOCIOLOGY AND SOCIAL WORK.....	247
DEPARTMENT OF ENGLISH.....	252
DEPARTMENT OF GEOGRAPHY AND RURAL DEVELOPMENT.....	253
DEPARTMENT OF HISTORY AND POLITICAL STUDIES.....	261
DEPARTMENT OF MARKETING AND CORPORATE STRATEGY.....	264

DEPARTMENT OF RELIGIOUS STUDIES	267
DEPARTMENT OF LANGUAGE AND COMMUNICATION SCIENCES.....	271
DEPARTMENT OF HUMAN RESOURCE AND ORGANISATIONAL DEVELOPMENT	275
DEPARTMENT OF COMMERCIAL LAW.....	279
DEPARTMENT OF PRIVATE LAW.....	281
DEPARTMENT OF PUBLIC LAW	282
DEPARTMENT OF ACCOUNTING AND FINANCE.....	284
DEPARTMENT OF SUPPLY CHAIN AND INFORMATION SYSTEMS.....	287
COLLEGE OF SCIENCE.....	291
DEPARTMENT OF BIOCHEMISTRY AND BIOTECHNOLOGY	291
DEPARTMENT OF CHEMISTRY.....	299
DEPARTMENT OF COMPUTER SCIENCE.....	311
DEPARTMENT OF ENVIRONMENTAL SCIENCE	313
DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY.....	314
DEPARTMENT OF OPTOMETRY AND VISUAL SCIENCE.....	319
DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE.....	321
DEPARTMENT OF THEORETICAL AND APPLIED BIOLOGY.....	325
LABORATORY FOR INTERDISCIPLINARY STATISTICAL ANALYSIS (LISA)..	332
DEPARTMENT OF MATHEMATICS	336
DEPARTMENT OF PHYSICS.....	339

FOREWORD

Institutions of higher education across the world are working to establish policies that will enable them to be recognized as learning and research hubs. The Kwame Nkrumah University of Science and Technology (KNUST) continues to expand its research potential as part of its efforts to increase the quality and performance of its research.

We can see the realization of this dream in the advancements made in the academic performance of the University over time. Our University's academic research has increased significantly over the years, which is commendable. The total research output of the University has increased from 1996 with a Staff Publication Ratio (SPR) of 2.10 in the 2018/2019 academic year, to 2336 with a Staff Publication Ratio (SPR) of 1.91 in the 2019/2020 academic year. This increase is registered not only at the University level, but also across five out of the six of the University's Colleges.

I congratulate all members of the academic staff on their continued efforts to make significant contributions to the advancement of impactful research through study with great honour. The University will continue to provide the much-needed support to staff so that they can continue to produce high-quality research with national and international impact. I am grateful to the Quality Assurance and Planning Unit (QAPU) for the hard work in putting together this bulletin. I encourage all of us to continue working hard towards the advancement of our corporate vision as a University.

Professor (Mrs.) Rita Akosua Dickson

Vice-Chancellor

May, 2021

PREFACE

The quality impactful research output of the KNUST academic staff are chronicled in the Quality Assurance Bulletin Volume 18, as in previous editions. As a result, it includes articles that have been written or that have been approved for publishing in peer-reviewed publications, as well as book chapters, published books, and conference proceedings.

In recent years, Quality Assurance and Planning Unit of the Vice-Chancellor's Office has made it a priority to maintain a high quality control system. We hope to keep enhancing the quality of teaching and research in our institution as an integral part of realizing the University's vision and mission, as well as reaffirming our status as a centre of excellence for science and technology education.

This bulletin accurately depicts research activity for the 2019/2020 academic year, as well as the Staff Publication Ratio (SPR) for the year under review. The research outputs of the various Departments and Units that allowed for the publishing of this bulletin are greatly appreciated, and we expect to see much further progress in the coming years. The committee that analyzed and revised Volume 18 of the Quality Assurance Bulletin, as well as the staff that contributed to this Bulletin, did an excellent job for which we are most grateful.

Prof. Jerry John Kponyo

Head, Quality Assurance And Planning Unit (QAPU)

May, 2021

SUMMARY OF RESEARCH OUTPUT FOR 2018/2019 AND 2019/2020

College of Art and Built Environment												
Departments/ Faculty	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Centre for Settlement Studies	-	15	-	1	-	-	-	-	-	-	-	16
Land Economy	6	13	2	5	-	-	-	-	-	2	8	20
Planning	28	27	5	1	-	-	-	-	-	-	33	28
Architecture	10	21	4	8	-	-	-	2	1	1	15	32
Educational Innovation in Science & Technology	16	51	7	-	-	-	-	-	-	-	23	51
Communication Design	7	17	-	2	-	-	-	1	-	2	7	22
Integrated Rural Art and Industry	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Art	-	57	-	4	-	3	-	1	-	-	-	65
Construction Technology & Management	48	55	15	11	-	-	-	-	2	-	65	66
Painting and Sculpture	1	8	3	18	-	-	-	-	-	5	4	32
Publishing Studies	-	3	-	3	-	-	-	-	-	-	-	6
Faculty of Educational Studies	5	-	4	-	-	-	-	-	-	-	9	-
Teacher Education	-	12	-	-	-	-	-	-	-	2	-	14
Total	121	279	40	53	-	3	-	4	3	12	164	351

College of Agriculture and Natural Resources

Departments	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Agroforestry	1	13	-	-	-	-	-	-	-	-	1	13
Animal Science	12	29	2	9	-	-	-	-	13	-	17	51
Crop and Soil Science	30	23	2	-	-	-	-	-	-	1	32	24
Fisheries and Watershed management	13	18	5	-	-	-	-	-	-	1	18	19
Horticulture	30	12	-	-	-	-	-	-	1	-	31	12
Land reclamation and rehabilitation	-	-	-	-	-	-	-	-	-	-	-	-
Sivilculture and Forest Management	9	9	3	1	-	-	-	-	-	2	12	12
Wildlife and Range management	11	6	-	2	-	-	-	-	-	-	11	8
Wood science and technology	4	4	-	-	-	-	-	-	-	-	4	4
Bureau of Integrated Rural Development	7	16	15	3	-	11	1	-	3	-	26	30
Agricultural Economics, Agribusiness & Extension	12	11	12	1	-	-	-	-	1	1	25	13
Ecotourism & Forest Recreation	-	-	-	-	-	-	-	-	-	-	-	-
Forest Resource Technology	7	9	-	1	-	-	-	-	1	-	8	10
Total	136	150	39	17	-	11	1	-	9	18	185	196

College of Health Sciences

Departments	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Pharmaceutics	10	19	2	2	-	-	-	-	4	5	16	26
Pharmacognosy	14	25	-	-	-	-	-	-	1	1	15	26
Pharmacology	14	29	-	-	-	-	-	-	5	9	19	38
Pharmaceutical Chemistry	6	12	8	6	-	-	-	-	-	-	14	18
Public Health and Epidemiology	4	10	-	-	-	-	-	-	-	-	4	10
Pathobiology	47	54	-	-	-	-	-	-	-	-	47	54
Clinical Studies	-	2	-	-	-	-	-	-	-	-	-	2
Anatomy & Physiology	-	9	-	-	-	-	-	-	-	-	-	9
Surgery	31	44	11	16	-	-	-	1	-	3	42	64
Nursing	16	44	13	-	-	-	-	-	-	-	29	44
Molecular Medicine	32	39	-	-	-	-	-	-	-	-	32	39
Obstetrics & Gynaecology	4	9	-	2	-	-	-	-	-	-	4	11
Herbal Medicine	-	8	-	-	-	-	-	-	-	-	-	8
Medicine	31	24	-	1	-	-	-	-	2	-	33	25
Pharmacy Practice	9	20	5	8	-	-	-	-	-	-	14	28
Epidemiology and Biostatistics	4	29	-	2	-	1	-	-	-	-	4	32
Global and International Health	34	30	-	-	-	-	-	-	-	1	34	31
Health Policy, Management and Economics	23	14	5	-	-	-	-	-	-	-	28	14
Community Health	19	11	4	-	-	-	-	-	-	-	23	11
Population, Family and Reproductive Health	7	20	9	3	-	-	-	-	-	-	16	23
Occupational and Environmental Health	9	-	-	-	-	-	-	-	-	-	9	-
Oral & Maxillofacial Science	5	5	-	-	-	-	-	-	-	-	5	5
Medical Laboratory Technology	-	-	-	-	-	-	-	-	-	-	-	-
Physiotherapy & Sports Science	7	7	-	-	-	-	-	-	-	-	7	7
Pathology	-	-	-	-	-	-	-	-	-	-	-	-
Behavioral Sciences	1	2	5	-	-	-	-	-	-	-	6	2

Child Health	47	20	-	-	-	-	-	-	1	1	48	21
Anatomy	3	9	31	-	-	-	-	-	-	-	34	9
Physiology	-	14	-	-	-	-	-	-	-	-	-	14
Kumasi Centre for Collaborative Research (KCCR)	61	63	-	-	-	-	-	-	2	3	63	66
Medical Diagnostics	25	39	2	4	-	-	-	-	-	-	27	43
Clinical Microbiology	19	9	4	3	-	-	-	-	-	-	23	12
Anaesthesiology and intensive care	5	3	-	-	-	-	-	-	-	-	5	3
Basic and Diagnostic Oral Health science	6	-	-	-	-	-	-	-	-	-	6	-
Child Oral Health and Orthodontics	2	3	-	-	-	-	-	-	-	-	2	3
Community Dentistry	1	-	-	-	-	-	-	-	-	-	1	-
Radiology	-	7	-	1	-	-	-	-	-	1	-	9
Eye, Ear, Nose & Throat (EENT)	-	6	-	2	-	-	-	-	-	-	-	8
Total	496	639	99	50	-	1	1	1	15	24	610	715

College of Engineering												
Departments	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Chemical Engineering	12	5	8	-	-	-	-	-	-	-	20	5
Civil Engineering	92	48	3	-	-	-	-	-	-	-	95	48
Electrical & Electronic Engineering	28	9	3	2	-	-	-	-	-	-	31	11
Mechanical Engineering	-	30	-	1	-	-	-	-	-	-	-	31
Geological Engineering	14	16	4	2	-	-	-	-	-	-	18	18
Materials & Metallurgical Engineering	-	21	-	3	-	-	-	-	-	-	-	24
Geomatic Engineering	41	21	-	1	-	-	-	-	-	-	41	22
Computer Engineering	29	11	4	1	-	-	-	-	1	-	34	12
Agricultural & Biosystems Engineering	11	36	11	9	-	1	-	1	-	3	22	50
Petroleum Engineering	22	8	-	9	-	-	-	-	-	-	32	17

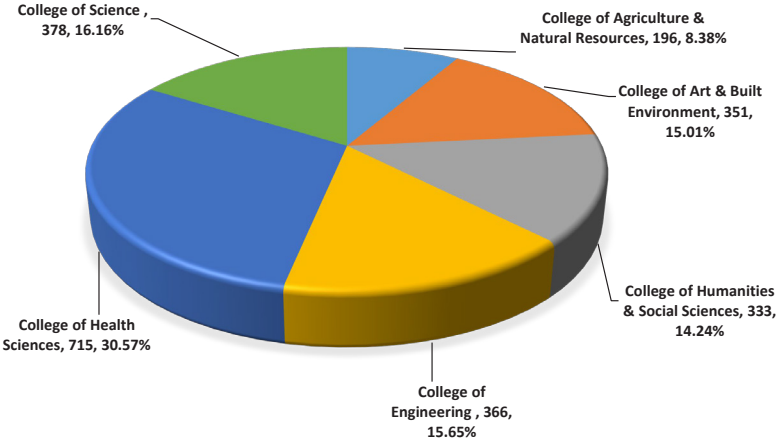
Technology Consultancy Centre	-	-	-	-	-	-	-	-	-	-	-	-
Telecommunication Engineering	23	13	1	-	-	-	-	-	-	-	24	13
Brew Hammond Energy Centre	23	42	-	3	-	-	-	-	-	2	29	47
Regional Water & Env. Sanitation Center – Kumasi (RWESCK)	-	41	-	-	-	-	-	-	-	-	-	41
West Africa Science Service Centre On Climate Change And Adapted Land Use (WASSCAL)	-	23	-	-	-	4	-	-	-	-	-	23
Total	295	324	50	31	-	5	-	1	1	5	346	366

College of Humanities and Social Sciences												
Departments	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Accounting & Finance	23	16	5	-	-	-	-	-	-	-	28	16
Supply Chain & Information Systems	10	13	4	1	-	-	-	-	-	1	14	15
Economics	29	-	5	-	-	-	-	-	2	-	36	0
Geography & Rural Development	37	35	13	28	-	-	-	-	2	-	52	63
Human Resource & Organizational Development	6	13	-	5	-	-	-	-	-	-	6	18
Sociology & Social Work	19	32	17	-	-	-	-	-	4	1	40	33
English	9	6	6	1	-	-	-	-	-	-	15	7
Language & Communication Sciences	6	21	2	6	-	-	-	2	-	2	8	31
Marketing & Corporate Strategy	9	14	2	-	-	-	-	-	-	2	11	16
Religious Studies	14	33	2	-	-	-	1	3	1	1	18	37
History & Political Studies	22	16	3	3	-	-	-	-	5	1	30	20
Commercial Law	1	6	1	4	-	-	-	2	1	4	3	16
Private Law	2	2	-	-	-	-	-	-	2	1	4	3
Public Law	-	7	-	3	-	-	-	1	-	1	-	12
Centre for Cultural and African Studies	19	40	12	3	-	-	-	2	3	1	34	46
Total	206	254	74	54	-	-	2	10	19	15	299	333

College of Science

Department	Refereed Journals		Published Conference Papers		Unpublished Conference Papers		Books Published		Book Chapters		Total Publications	
	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20	18/19	19/20
Physics	18	37	8	3	-	-	1	-	-	-	27	40
Chemistry	64	88	-	6	-	-	-	-	-	1	64	95
Food Science and Technology	22	25	17	12	-	-	-	-	7	-	46	37
Biochemistry and Biotechnology	59	47	20	9	-	-	-	-	1	-	80	56
Theoretical and Applied Biology	49	51	-	4	-	-	-	-	-	-	49	55
Mathematics	14	18	-	1	-	-	-	-	1	-	15	19
Optometry and Visual Science	12	3	3	5	-	-	-	-	-	-	15	8
Computer Science	43	11	-	-	-	-	-	-	-	-	43	11
Statistics and Actuarial Science	31	31	-	-	-	-	-	-	-	-	31	31
Environmental Science	9	2	12	-	-	-	-	-	1	-	22	2
Laboratory for Interdisciplinary Statistical Analysis (LISA)	-	24	-	-	-	-	-	-	-	-	-	24
Total	321	337	60	40	-	-	1	-	10	1	392	378

STAFF PUBLICATION FOR THE YEAR 2019/2020



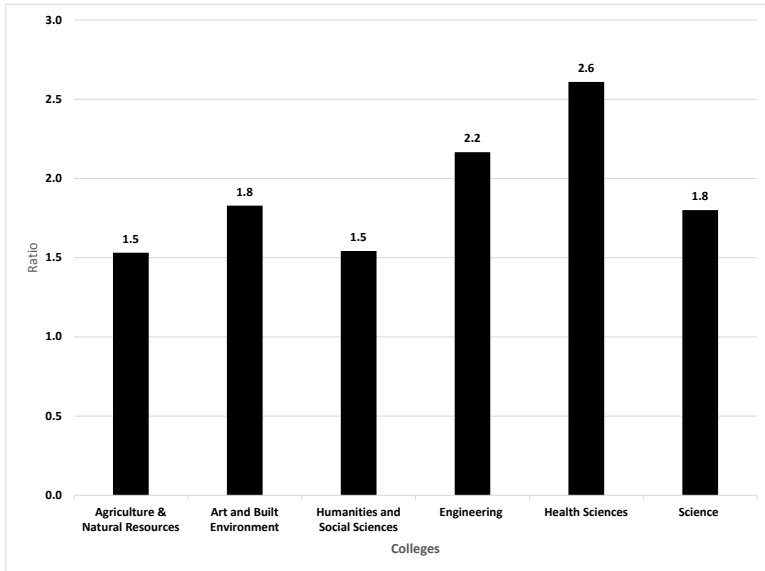
STAFF PUBLICATION RATIO FOR COLLEGES (2019/2020)

COLLEGE	Total Number of Publications	Total Number of Lecturers	Staff Publication Ratio
Agriculture & Natural Resources	196	128	1.5
Art and Built Environment	351	192	1.8
Humanities and Social Sciences	333	216	1.5
Engineering	366	169	2.2
Health Sciences	715	274	2.6
Science	378	210	1.8
TOTAL	2339	1189	1.9127

University Average for the Academic Year 2019/2020: 1.9127

Staff Publication Ratio (SPR): Total Number of Publications / Total Number of Lecturers.
 (Source: Publication Output from QAPU; Total Number of Academic staff from 2020 KNUST Basic Statistics)

THE STAFF PUBLICATION RATIO FOR THE VARIOUS COLLEGES FOR THE ACADEMIC YEAR 2019/2020



FIVE-YEAR TREND ANALYSIS OF RESEARCH OUTPUT OF COLLEGES

(2015/2016 TO 2019/2020)

COLLEGE	2015/2016			2016/2017			2017/2018			2018/2019			2019/2020		
	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T
Agriculture & Natural Resources	166	43	209	193	104	297	149	48	197	146	39	185	168	28	196
Art & Built Environment	215	61	276	243	136	379	113	52	165	124	40	164	295	56	351
Humanities & Social Sciences	272	16	288	280	37	317	172	70	242	227	72	299	279	54	333
Engineering	216	1	217	158	57	215	221	50	271	296	50	346	330	36	366
Health Sciences	428	33	461	342	72	414	419	72	491	511	99	610	664	51	715
Science	320	74	394	362	59	421	191	72	263	332	60	392	338	40	378
Total	1617	228	1845	1578	465	2043	1265	364	1629	1636	360	1996	2074	265	2339

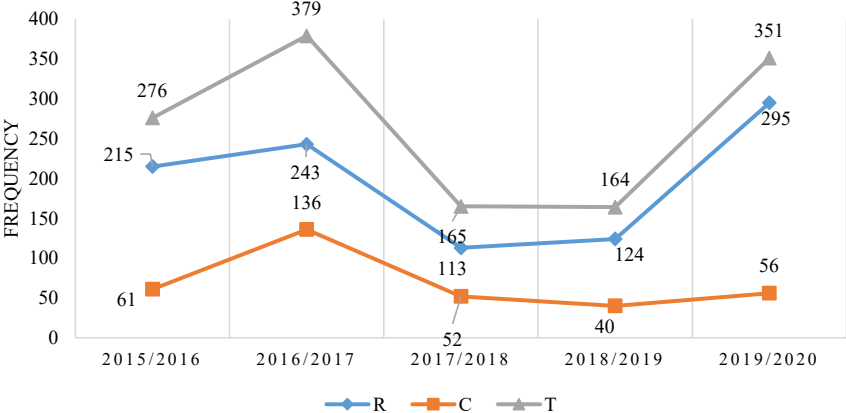
KEY: R: Refereed Journals, Books Published and Book chapters

C: Published and Unpublished Conference Papers

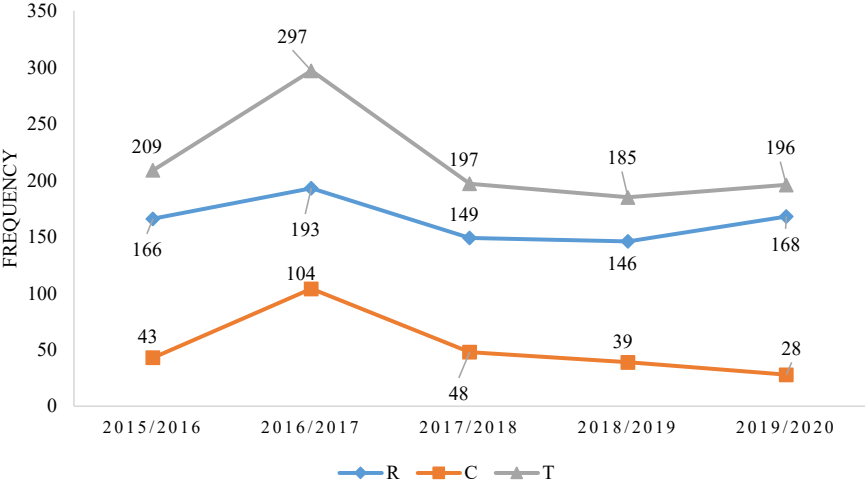
T: Total

TIMES SERIES PLOT FOR COLLEGES RESEARCH OUTPUT
(2014/2015 TO 2018/2019)

COLLEGE OF ART & BUILT ENVIRONMENT

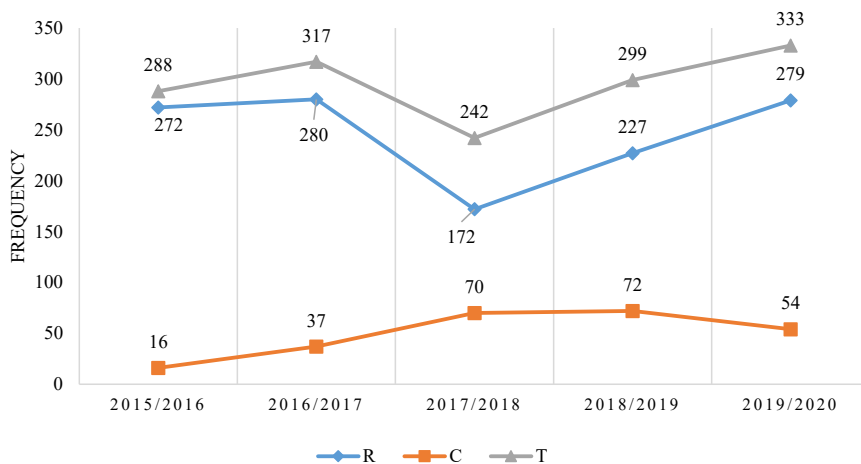


COLLEGE OF AGRICULTURE & NATURAL RESOURCES

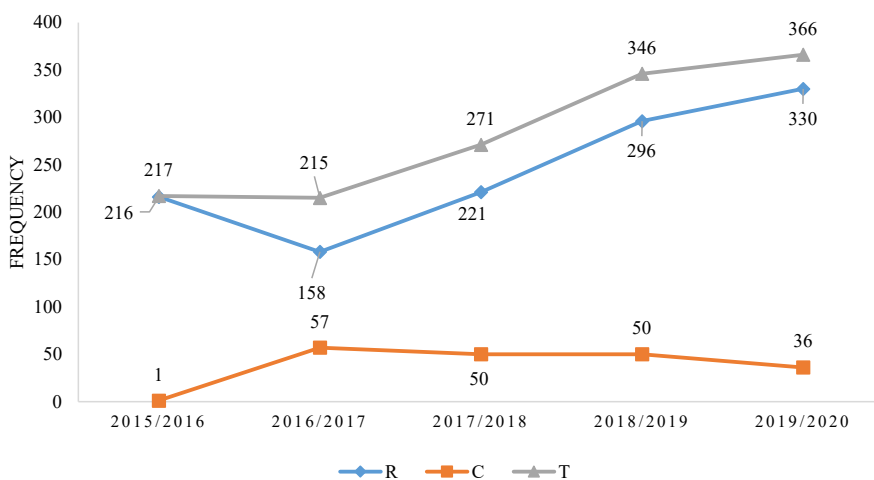


KEY: *R: Refereed Journals, Books Published and Book chapters*
C: Published and Unpublished Conference Papers
T: Totals

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

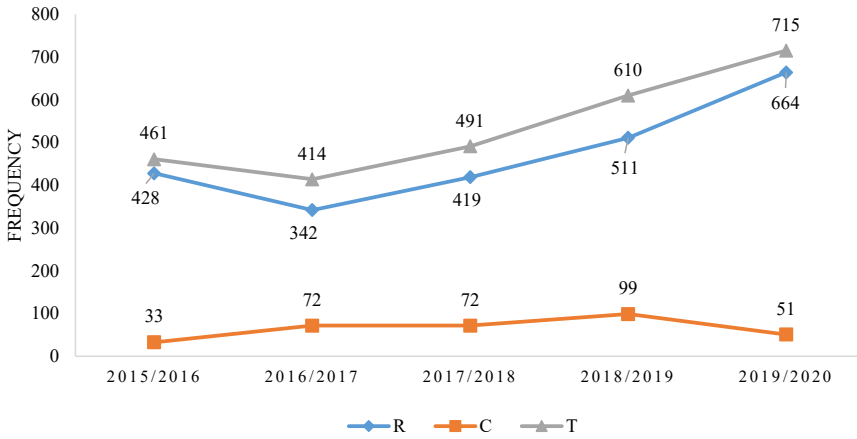


COLLEGE OF ENGINEERING

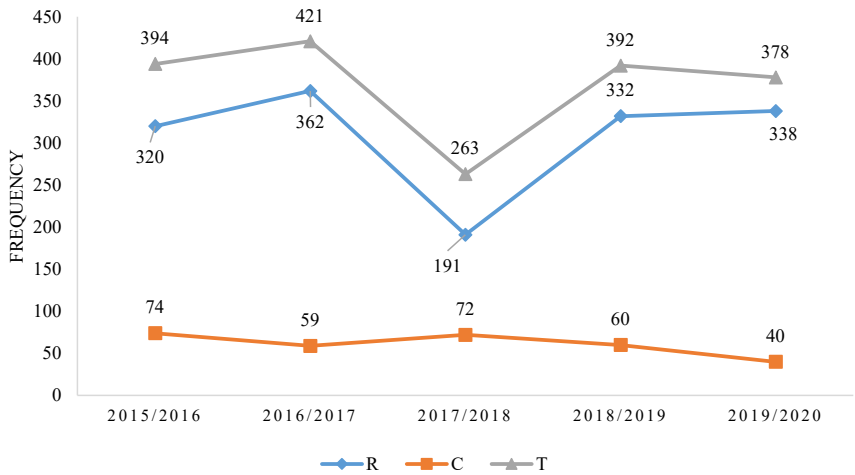


KEY: R: Refereed Journals, Books Published and Book chapters
 C: Published and Unpublished Conference Papers
 T: Total

COLLEGE OF HEALTH SCIENCES



COLLEGE OF SCIENCE



KEY: R: Refereed Journals, Books Published and Book chapters
 C: Published and Unpublished Conference Papers
 T: Total

COLLEGE OF ART AND BUILT ENVIRONMENT

CENTRE FOR SETTLEMENTS STUDIES

ACADEMIC STAFF

Professors:

R. D. Dinye# BSc, MSc (Kumasi), MSc, PhD (Germany)

Associate Professors:

R. S. King# BSc, MSc (Kumasi), MSc (Germany), PhD (UK)

D. K. Ahadzie BSc (Kumasi), MSc, PhD (UK), MGIIOC, CMCIH (UK), Cert. (Hong Kong)

Senior Research Fellows:

P. K. B. Asamoah BSc (Kumasi), MA (UK).

Research Fellows:

H. K. Boafo BSc, PG.Dip (Kumasi)

Irene-Nora Dinye BA (Kumasi), MPhil (Cape Coast)

H. Mensah BA (Tamale), MSc, PhD (Germany)

E. K. Simpeh BTech, MTech, PhD (South Africa)

On Contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asamoah, P. K. B., Takora, S., Appiah-Atiemo, E. (2019). Community participation in the preparation and implementation of land use plans in Ghana: a critical assessment from the Tamale metropolis. *Journal of Public Policy and Administration Research*, 9 (9): 24-37.
2. Koombonah, N. and Asamoah, P. K. B. (2019). Understanding why motorcycle riders do not comply with traffic control signals in the Wa municipality in Ghana. *Research on Humanities and Social Sciences*, 9 (14): 145-159.

3. Dinye, I., Lambon, G., and Amoateng B. (2019). Non-Governmental Organisations and the Attainment of Food Security in Developing Countries: A Study of Tolon District in Ghana. *International Journal of Research and Innovation in Social Science (IJRISS)* 3 (8): 209-217.
4. Osei, M. A., Lykke A.M. and King, S.R. (2020). "Understanding the factors for increased informal electronic waste recycling in Kumasi, Ghana". *International Journal of Environmental Health Research*,1-16.
5. Sullo, C., King, R. S., Yiridomoh, G.Y. and Doghle, K. (2020). "Indigenous Knowledge Indicators in Determining Climate Variability" in Rural Ghana". *Rural Society*. 29 (1): 59-74.
6. Wireku, G., King, R. S., Imoro, B. and Lykke, A. M. (2020). 'Perception of Small-Scale Miners on Interventions to Eradicate Illegal Small-Scale Mining in Ghana'. *SAGE Open*, 10(4):1-11.
7. Wireko-Gyebi, R. S., King, R.S., Imoro, B. and Lykke, A. M. (2020). 'Local knowledge of risks associated with artisanal small-scale mining in Ghana'. In *International Journal for Safety and Ergonomics*, 1-8.
8. Agyei, V., Peprah, C., and Ahadzie, D. K. (2020). "Multi-criteria Analysis of Early Warning System for Flood Risk Reduction in Barangay Tumana in Markina City, Philippines, *Journal of Science and Technology* (In press) *Journal of Science and Technology(JUST)*.
9. Ahadzie, D. K., Opoku, R., Ware, S. N. O., & Mensah, H. (2020). Analysis of occupant behaviour in the use of air-conditioners in public buildings in developing countries: evidence from Ghana. *International Journal of Building Pathology and Adaptation*.
10. Opoku, R., Adjei, E. A., Ahadzie, D. K., & Agyarko, K. A. (2020). Energy efficiency, solar energy and cost saving opportunities in public tertiary institutions in developing countries: the case of KNUST, Ghana. *Alexandria Engineering Journal*, 59(1), 417-428.
11. Danladi, R., and Ahadzie, D. K. (2019). Competencies Required of Project Managers at the Conceptual Phase of Mass House Building Projects, *International Journal of Construction Project Management*.11 (2):3-27
12. Obodai, J., Asamoah, P. K. B., Agyemang, F. O., and Abaiteye, A. K. A. (2020, Forthcoming). The Informal palm oil and kernel processing industry in Ghana: A safe haven or poverty trap for women? *Cogent Social Sciences*.
13. Mensah, H. and Ahadzie, D.K. (2020). Causes, impacts and coping strategies of floods in Ghana: a systematic review, *SN Applied Sciences*.

14. Kissi, E., Ahadzie, D. K., Debrah, C. and Adjei-Kumi, T. (2020). "Underlying Strategies for Improving Entrepreneurial Skills Development of Technical and Vocational Students in Developing Countries" Education + Training.
15. Mensah, M., Amponsah, O., Appiah Takyi, S. and Ahadzie, D.K. (2020). Climate change resilience: lessons from local climate-smart agricultural practices in Ghana, Energy, Ecology and Environment, 1-14.

CONFERENCE PAPER

1. Sarpong – Nsiah, G. and Ahadzie, D. K. (2019). Multi-Criteria Material Selection Decision Support System for the Housing Construction Industry in a Developing Country Context, 1st International Conference on Natural Resources and Socio – Economic Sensitivity Facing Climate Change in the Oti-Volta Basi, West Africa, PREDES laboratory, University of Kara, Togo and Institute of Physical Geography and ZIAF (Geothe Frankfurt), 6-8 March 2019.

DEPARTMENT OF ARCHITECTURE

ACADEMIC STAFF

Professor

S. O. Afram*	MA (UK), Grad.Dip, BSc (Kumasi)
R. A. Oppong	PhD (UK), BSc (Italy), Grad.Dip.Arch, BSc (Kumasi)

Associate Professor

C. Koranteng	DArch (US), PhD, MSc (Austria)
G. W. K. Intsiful*	DArch (US), M.Arch (Canada), Grad.Dip.Arch, BSc (Kumasi)
S. Amos-Abanyie	PhD (Kumasi), MSc (Germany), Grad.Dip, BSc (Kumasi)
E. A. Botchway	PhD (Accra), MSc (UK), MSc, MA., BSc (Kumasi)

Senior Lecturers:

D. Y. A. Duah	PhD (US), MSc (UK), Grad.Dip.Arch, BSc (Kumasi)
T. E. Kwofie	PhD., MPhil, Grad.Dip, BSc (Kumasi)

V. K. Quagraine PhD., MCM, M.Arch (US), BA (Legon)

Lecturers:

M. Mensah PhD (Germany), MSc (Kumasi), MA, BSc (Accra)
A. Boakye-Marful PhD, MIP (Germany), PG. Dip, BSc (Kumasi)
D. Opoku MSc, PG. Dip., BSc (Kumasi)
A. I. Baffoe-Ashun PhD (Kumasi)
K. A. Gyimah PhD (Kumasi)
K. Owusu MArch (Kumasi)

Assistant Lecturers:

B. Affreh MArch (Kumasi)
E. F. Asabere MArch (Kumasi)

Part time Lecturers:

C. Essel MSc, BSc (Russia), Cert (UK)
C. Asmah MSc (Germany), Grad.Dip, BSc (Kumasi)
G. F. A. Olympio MA (UK)
V. Kootin-Sanwu PhD (US), Grad.Dip, BSc (Kumasi)
J. Y. Afrim MSc, BSc (UK)

Technical Instructor:

S. S. Mensah # MSc, BSc (Kumasi), Dip (South Africa)
O. N. O. Laing MPhil, PG.Dip, BSc (Kumasi), MRes, C&G., I, III, IV (UK)

**Full time (Contract)*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Nyame-Tawiah, D., Attuah, L. and Koranteng, C. (2020). Determination of the Effect of Green Roofs on Indoor Temperature Using Simulation in a Tropical Landscape. Journal of Scientific Research & Reports, 26(4): 12-28.

2. Adjei, E. A., Amos-Abanyie, S. and Omer, S. (2020). Characterization of Thermo-Physical Properties of Cement-Based Blocks of Varied Sand Types Using Cost-Effective Enhancement Approach. *Open Journal of Energy Efficiency*, 9 (1): 14-30.
3. Kwofie, T.E, Aigbavboa, C. and Baiden-Amissah, A. (2020). Ontology of the communication performance prospects of Building Information Modelling adoption among project teams in construction project delivery. *Journal of Construction in Developing Countries*, 25(1): 21-43.
4. Kwofie, T.E., Aigbavboa, C.O. and Molobela, E.D. (2020). Nature of effects of dynamics of team control on project team effectiveness in construction project delivery. *International Journal of Services and Operations Management*, 36(3): 360-380.
5. Mensah, M., Vlek, P.L.G. and Fosu-Mensah, B.Y. (2020). Gender and climate change linkages in the semi-arid region of Ghana. *GeoJournal*, 85(4).
6. Mensah, M. and Fosu-Mensah, B. Y. (2020). Agriculture and gender roles in the semi-arid region of Ghana. *West African journal of applied ecology*, 28 (1): 144 – 157.
7. Twumasi-Ampofo, K., Oppong, R. A. and Quagraine, V. K. (2020). The state of architectural heritage preservation in Ghana: A review. *Cogent Arts & Humanities*, 7(1).
8. Koranteng, C., Simons, B. and Nyame-Tawiah, D. (2019). Green to Grey: An Urban Heat Assessment of Kumasi, Ghana. *International Journal of Environment and Climate Change*, 9(12).
9. Koranteng, C., Simons, B. and Essel, C. (2019). Climate Responsive Buildings: A Comfort Assessment of Buildings on KNUST Campus, Kumasi. *Journal of Engineering, Design and Technology*, 17 (5): 862-877.
10. Koranteng, C., Simons, B. and Awume, J. (2019). Evolution of Spatial Configurations in Ghana's Housing Development: The Case of Private Apartment Buildings in Ghana. *African Journal of Applied Research*, 5 (2): 12-23.
11. Koranteng, C., Simons, B. and Selorm, F. (2019). Audit of Auditoriums in an Academic Setting, Ghana. *Journal of Building Construction and Planning Research*, 7: 99-11.
12. Botchway, E. A., Yeboah-Boateng, E. O. and Afful, A. E. (2019). ICT Competencies of Project Management Personnel at Local Government Level in Ghana. *International Journal of Science and Engineering Investigations (IJSEI)*, 8(91): 31-39.

13. Anzagira, L. F., Badu, E. and Duah, D. (2019). Towards an Uptake Framework for the Green Building Concept in Ghana : A Theoretical Review. *International Journal on Proceedings of Science and Technology*, 57-76.
14. Anzagira, L. F., Badu, E. and Duah, D. (2019). A Conceptual Framework for the Uptake of the Green Building Concept in Ghana. *Scientific African*, 6.
15. Kwofie, T.E., Ohis Aigbavboa, C. and Thwala, W.D. (2019). Communication performance challenges in PPP projects: cases of Ghana and South Africa. *Built Environment Project and Asset Management*, 9(5): 628-641.
16. Kwofie, T.E., Aigbavboa, C.O. and Machethe, S.O. (2019). Nature of communication performance in non-traditional procurements in South Africa. *Engineering, Construction and Architectural Management*, 26(10): 2264-2288.
17. Kwofie, T.E., Aigbavboa, C.O. and Thwala, W.D. (2019). Measures to improve the adoption of life cycle assessment in the South African construction industry. *Journal of Engineering, Design and Technology*, 18(2): 480-494.
18. Kwofie, T. E., Aigbavboa, C.O. and Matsane, Z. S-S. (2019). Key drivers of effective collaborative working in construction supply chain in South Africa. *International Journal of Construction Supply Chain Management*, 9(2): 81-93.
19. Ellis, F., Kwofie, T. E., Awuni, M., Coffie, R. B. and Duffour, M. (2019). Workforce Diversity and Team Effectiveness: Insights from the Construction Sector in Ghana. *Journal of Business Diversity*, 19(5):10-25.
20. Gyimah, K. A., Amos – Abanyie, S. and Koranteng, C. (2019). A review on approaches and tools used in assessing indoor environmental quality. *Journal of Building Performance*, 10(1): 68-78.
21. Jackson, I., Uduku, O., Addo, I. A. and Oppong, R. A. (2019). The Volta River Project: planning, housing and resettlement in Ghana, 1950–1965. *The Journal of Architecture*, 24(4): 512-548.

PUBLISHED BOOKS

1. Kwofie, T.E., Aigbavboa, C. and Thwala, W. (2020). *Effective Construction Project Delivery: Improving Communication Performance in Non-Traditional Procurement Systems*. Springer Nature Switzerland AG. ISBN 978-3-030-49374-5, 186 p.
2. Oppong, R. A. (2019). *Aalii to Zygomorphic: Handbook on Architectural Glossary*. University Printing Press (UPK) KNUST, Ghana. ISBN 978-9988-54-730-1, 200 p.

CHAPTERS IN BOOKS

1. Marful, A. B., Danquah, J.A., Duah, D. and Oppong, R. A. (2019). Towards a Smart-Cultural Peri-Urban Community: The Case of Kyebi, Ghana. In Hanzl, M., Reilly, J., Agrawal, M. and Moura, R. (eds), International Society of City and Regional Planners (ISOCARP) Review 15: Planning for Metropolitan Area. ISBN: 978-90-75524-628, 360-371.

CONFERENCE PROCEEDINGS

1. Oppong, R. A., Owusu, E. B. and Haruna, A. I. (2020). The Paradox of Cloudlessness Stymied Information Systems, Technologies and Application in Architectural Education in the Global South: The Case of Ghana. In: Proceedings of the 14th International Multi-Conference on Society, Cybernetics and Informatics (IMSCI 2020), 13-16 September 2020, Virtual Conference.
2. Offei-Nketiah, J.K., Kwofie, T.E. and Duah, D. (2019). Regulatory Distress: Architects' Perspective on Enforcement of Building Regulations in Ghana. In: Proceedings of 11th Construction Industry Development Board (CIDB) Postgraduate Research Conference – The Construction Industry in the Fourth Industrial Revolution. 28-30 July 2019, Johannesburg, South Africa, 225-240.
3. Danquah, J.A., Marful, A.B., & Duah, D. (2019). Exploring Barrier-Free as a catalyst to Smart Cities Initiatives in Sub Saharan Africa. In Real Corp 2019 – Is This the Real World? Perfect Smart Cities vs. Real Emotional Cities. In: Proceedings of the 24th International Conference on Urban Planning, Regional Development and Information Society. 2 – 4 April 2019, Karlsruhe Institute of Technology, Germany, 339-351.
4. Offei-Nketiah, J.K., Kwofie, T.E., & Duah, D. (2019). Development Control Strategies for Sustainable and Resilient Urban Development in Sub-Saharan Africa: In: Laryea, S. and Essah, E. (eds.), Proceedings of West Africa Built Environment Research (WABER) Conference, 10th Anniversary Conference, 5-7 August 2019, Accra, Ghana, 403-422.
5. Doamekpor, N.A.A. and Duah, D. (2019). Conceptions of Sustainability amongst Post Graduate (MSc) Construction Management Students. In: Laryea, S. and Essah, E. (eds.), Proceedings of West Africa Built Environment Research (WABER) Conference, 10th Anniversary Conference, 5-7 August 2019, Accra, Ghana, 305-318.
6. Gyimah, K. A., Amos – Abanyie, S. and Koranteng, C. (2019). Simulation based Indoor Environmental Quality analysis of an existing window used in a tropical warm humid climate. In: Proceedings of the 16th International

Building Performance Simulation Association (IBPSA) Conference, 2-4 September 2019, Rome, Italy, 2569 – 2574.

7. Liphadzi, M., Aigbavboa, C., Thwala, D. and Kwofie, T. (2020). Delphi Survey on the Influence of Succession Planning in Leadership Development. In: Aigbavboa C. and Thwala W. (eds.), The Construction Industry in the Fourth Industrial Revolution. CIDB 2019. Springer, Cham, 373-379.
8. Gyimah, K. A. (2019). Windows for quality indoor environments: A case in a tropical warm humid climate. Poster presented at West African Built Environment Research (WABER) Conference, 10th Anniversary Conference, 5-7 August 2019, Accra, Ghana.

DEPARTMENT OF EDUCATIONAL INNOVATIONS IN SCIENCE AND TECHNOLOGY

ACADEMIC STAFF

Associate Professors:

N. A. A. Opoku-Asare	MPhil (UK), MA, PG Dip. (Kumasi), PG Dip. (UK), BA (Kumasi)
S. Kquofi	PhD, MA, BA (Kumasi)
J. Adu – Agyem	PhD, MA, PG. Dip, BA (Kumasi)
P. Osei – Poku	PhD, MA, PG Dip., BA (Kumasi)

Senior Lecturers:

E. A. Asante	PhD (Kumasi), MA (Winneba), BA (Kumasi), Dip. (Winneba), Cert. UK)
R. Essel	PhD (Kumasi), MA (UK), PG.Dip (Netherlands), B.Ed (Cape Coast), Dip. (Winneba)
H. B. Essel	PhD, BA (Kumasi)

Lecturers:

P. Swanzy	PhD (Australia), MEd, BA (Cape Coast)
A. K Ebeheakey	PhD, MPhil, BA (Kumasi)
S. Antwi	PhD, MEd. (US), BEd (Cape Coast)

D. Adom	PhD, MA (Kumasi), PG Dip. (Winneba)
P. K. Baah	PhD, MFA, BFA (Kumasi)
F. K. Awuah	PhD (South Africa), MSc, BSc (Kumasi)
A. Tachie-Menson	PhD, BFA (Kumasi)
N. A. P. Arthur	PhD, BA (Kumasi), Cert. (US)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Bonsu, H. S., Kquofi, S. & Asante, E. A., (2020). The Hybridity in the Rites of Passage among the Ewe Ethnic Society in the Kumasi Metropolis. *Journal of Culture, Society and Development*;62: 1-6
2. Asare, S., Kquofi, S. & Osei, M., (2020). The Good, Beautiful and Sensuous in the Arts: The Aesthetics of Asante Arts in Perspective. *IOSR Journal of Humanities and Social Science*,25(10):53-60.
3. Ebeheakey, A. K., Kquofi, S., Asante, E. A., & Nubuor, C. B. (2020). Mark of the Spirit: Body Marks as Icons of Spirituality among the Dangme in Ghana. *Asian Research Journal of Arts & Social Sciences*, 11(2):25-35.
4. Owusu Addo, A. R., Kquofi, S. & Arthur, N.A.P., (2020). Documenting Selected Artefacts of the Royal Regalia of Akwamumanhene. *Research on Humanities and Social Sciences*,10: 1-9.
5. Wemegah, R., Asante, E.A, & Kquofi, S. (2020). Symbols, Colours, and Narratives: Basketry Ornamenting Motifs of the Gurene People of Ghana. *The International Journal of Humanities and Social Studies*,8(4): 424-430.
6. Asare, S., Kquofi, S. & Decardi Nelson, A., (2020). A Night of Sikyi Dance: The Socio-Cultural Sensual Dialectics of Asante Dance through Performance Art. *The International Journal of Humanities and Social Studies*, 8(4): 360-367.
7. Owusu Addo, A. R., Kquofi, S. & Arthur, N.A.P., (2020). The Religio-Political Functions of Akwamumanhene's Royal Regalia and Its Symbolic Interactionism. *The International Journal of Humanities and Social Studies*,8(3):6-14.
8. Wemegah, R., Kquofi, S. & Asante, E.A, (2020). Gurene Utilitarian Basketry Arts: A Critical Discourse. *Journal of Arts and Design Studies*,80:17-29.
9. Adom, D. & Aravind, V. R. (2019). Application of Educational Technology to Teaching and Learning in the 20th and 21st Centuries IN *History of*

Educational Technology (20th & 21st Centuries). 2019, pp. 41-53, Malaysia: ALNIL Enterprise, ISBN: 978-967-16846-2-7

10. Adom, D. & Ferdinand-James, D. S. (2019). Historical Overview of Educational Technology in the 20th and 21st Centuries IN History of Educational Technology. Malaysia: ALNIL Enterprise. ISBN: 978-967-16846-2-7
11. Adom, D. (2019). The Place and Voice of Local People, Culture, and Traditions: A Catalyst for Ecotourism Development in Rural Communities in Ghana. *Scientific African*, 6 (e00184): 1-22
12. Adom, D. (2019). Dietary Taboos as a Means of Ethnic and Place Identity of the Bono People of Ghana: Indirect Cultural Practices for the Conservation of Fauna Species. *International Journal of Conservation Science*, 10(4): 733-748
13. Chukweure, J., Adom, D. & Gorejena, K. (2019). Towards an Indigenous Crowd funding Framework: A New Guide for Entrepreneurship Funding in Developing Countries. *Gender and Behaviour*, 17(12): 12742-12755
14. Adom, D., Appiah, P. S. & Yarney, L. (2019). A Return to the Ghanaian Cultural Values of Closed Season in Ghana's Artisanal Marine Fishing: An Essential Means of Restoring Small Pelagic Stocks. *Rev. Syst. Ecol. Res.*, 21(3): 95-110
15. Danso, D. K., Adom, D., Eshun, F. S. & Adamtey, S. (2019). Ghanaian Cultural Values and their Foreign Influence: A Spotlight on Clothing. *Journal of Fashion Technology & Textile Engineering*, 7(1): 1-8
16. Adom, D., Appiah, P. S. & Krishnappa, M. K. (2020). The Chemical Constituents, Anti-Inflammatory, Anti-Oxidant and Ethnomedicinal Properties of *Aloe barbadensis* IN Ethnomedicinal Plant Use and Practice in Traditional Medicine. U.S.A.: IGI Global
17. Adom, D., Adu-Mensah, J. & Appiah, S. P. (2020). Hand-to-Mouth Work Culture and the COVID-19 Lockdown Restrictions: Experiences of Selected Informal Sector Workers in Kumasi, Ghana. *Research Journal in Advanced Humanities*, 1(2): 45-64
18. Adom, D., Chukweure, J. & Osei, M. (2020). Review: Academic Stress among Faculty and Student in Higher Institutions. *Journal of Humanities and Social Sciences*, 28(2): 1055-1064
19. Adom, D., Osei, M. & Adu-Agyem, J. (2020). COVID-19 Lockdown: A Review of an Alternative to the Traditional Approach to Research. *Research Journal in Advanced Social Sciences*, 1(1): 1-9

20. Adom, D., Adu-Mensah, J. & Dake, D. A. (2020). Test, Measurement, and Evaluation: Understanding and Use of the Concepts in Education. *International Journal of Evaluation and Research in Education*, 9(1): 109-119
21. Adom, D., Essel, H. B. & Chukwuere, J. (2020). The State of Academic Stress in the Higher Institutions of Ghana: The Way Forward. *American Journal of Educational Research*, 8(2): 321-331
22. Adom, D., Sawicka, B., Umachandran, K. & Ziarati, P. (2020). Effective Approaches in Ensuring the Active Involvement of Local People in Biodiversity Conservation Projects. *International Journal of Basic & Applied Sciences*, 20(2): 17-31
23. Essel, R and Essel, H.B. (2019). Challenges and Effects of Providing Feedback to Improve Learning in Distance Education: A Case Study of Kwame Nkrumah University of Science and Technology – KUMASI – GHANA. *Library, Philosophy and Practice Journal*
24. Essel, R., Osei-Poku, P. Essel, H.B., and Saah. A. A. (2020). Evaluation of Distance Education and Widening Access to Higher Education in KNUST. *Int'l Journal of Research and Innovation in Science*, ISSN 2454-6186.
25. Koomson, E., Osei. M., and Essel. R. (2020) Beyond Words: Art Therapy for Self-expression with female inmates, Nairobi, Kenya, *Nairobi Journal of Humanities and Social Sciences*,4(3)
26. Armah, L., Adu-Agyem, Joe and Osei, M. (2020). Akwantukese Festival of the New Juaben People: The Art forms and their Aesthetics. *Journal of Arts and Design Studies*, 80: ISSN 2224 – 6061
27. Agyemang, A. M., Adu-Agyem, J., (2020). The impact of the Ghana School Feeding Programme on School Enrolment, Retention and Attendance in the Atwima Nwabiagya Municipal in the Ashanti Region of Ghana: *The International Journal of Humanities and Social Studies*, 8(2) ISSN 2321 – 9203.
28. Agyei, K. I., Baidoo, M. K., Adu-Agyem, Joe (2020). Design and Production of Desktop Organizer for Kwame Nkrumah University of Science and Technology: *International Journal of Innovative Research and Advanced Studies (IJRAS)*,7(7). ISSN 2394 – 4404
29. Agyei, K. I., Adu-Agyem, J., Fenning, A. P., Baidoo, K. M., Kissi Baah, S., Adala, E. C. (2020). Design and Fabrication of Metal Key Holder and Cufflinks as Souvenirs for Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. *Journal of Arts and Design Studies*,83. ISSN 2224 – 6061

30. Duah, K and Adu-Agyem, J. (2020). The Educational Challenges Faced by Muslims – Girl (From Zongo) on Academic Programme; Selected Senior High Schools in Sekyere Central District in Focus. *The International Journal of Humanities and Social Studies*, 8(4): 376-386
31. Adu-Poku, A., Howard, K. H., Adu-Agyem, J., Asinyo, K. B., (2020). Support Systems: Essential Pivots of Textiles Education in Senior High Schools in Ghana. *The International of Humanities and Social Studies*,8(7). ISSN 2321 – 9203
32. Kyeremeh, F. and Osei-Poku, P. (2020) The Use of Teaching and Learning Materials by Student-Teachers at St. Ambrose College of Education, Dormaa Akwamu in the Bono Region of Ghana. *British Journal of Education, Learning and Development Psychology*, 3(3): 19-35
33. Essel, R., Osei-Poku, P., Barton-Essel, H. and Saah A. A. (2020) Evaluation of Distance Education and Widening Access to Higher Education in Kwame Nkrumah University of Science and Technology, *International Journal of Research and Innovation in Social Sciences*, 4(7):250-256
34. Sarpong-Nyantakyi, J., Osei-Poku, P. and Eshun, E. F. (2020) Exploring the destinations of Higher National Diploma Graphic Design Graduates in the Ghanaian Labour Market. *International Journal of Advanced Scientific Research and Management*,5(4):1-13
35. Akomeah R, Asante E. A, Arthur N. A. P. (2019). A Descriptive and Historical Analysis of Sanga Traditional Dance of the Asantes. *English Language, Literature & Culture*, 4(1): 8-16. doi:10.11648/j.ellc.20190401.12
36. Asante E.A, Ebeheakey A. K., Opoku-Bonsu K., Cornah J. J. (2019). The unwritten historical perspectives of Akan spokespersons staffs. *African Journal of History and Culture*,11(1):1-10.
37. M. Z. Fusheini, J. Adu – Agyem and Asante E.A (2019). Hands-On Activities on Dagomba Bim’ Manjli Production among Elective Class Students in E.P College of Education, Bimbilla, Ghana. *International Journal of Innovative Research & Development*.
38. M. Z. Fusheini, J. Adu – Agyem and Asante E.A (2019). Indigenous Aesthetic Qualities Inherent in the Dagomba Bim’manjli (Smock) in Northern Region of Ghana. *International Journal of Research and Innovation in Social Science (IJRISS)*, 3(5).
39. Sefaah, J.T., Asante, E.A. and K. Duako (2019) Methods used to Manage Defects Related to Vegetable Tanned Leather. *Leather and Footwear Journal*.

40. Ababio S, Asante EA, Kquofi S. (2019). The Indigenous Cultural Ways of Diagnosis in the Ashanti Region of Ghana. *Journal of Advances in Medicine and Medical Research*, 31(4):1-12.
41. Ababio S, Asante EA, Kquofi S. (2019). Asante Indigenous Culture: A Form of Religious Redemption. *International Journal of Humanities and Social Science Review*, 5(3).
42. Mate, M. M., Asante, E. A., Adu-Agyem, J. and Kquofi, S. (2019). Harnessing the potentials of plant fibres into viable cords for weaving. *ADRRJ Journal of Arts and Social Science*, 16(9):1-19.
43. Wemegah, R. Asante A. E., S. Kquofi (2020). Symbols, Colours, and Narratives. Basketry Ornamenting Motifs of the Gurene People of Ghana.8(4)
44. Wemegah, R. Asante A. E., S. Kquofi (2020). Gurene Utilitarian Basketry Arts: A Critical Discourse. *Arts and Design Studies*, 80.
45. Bonsu, H.S., Kquofi, S & Asante, E.A, (2020). The Hybridity in the Rites of Passage among the Ewe Ethnic Society in the Kumasi Metropolis. *Journal of Culture, Society and Development*,62:1-6.
46. Ebeheakey A. K., Kquofi, S., Asante E.A, & Nubour, C. B. (2020). Mark of the Spirit: Body Marks as Icons of Spirituality among the Dangme in Ghana. *Asian Research Journal of Arts & Social Sciences*, 11(2), 25-35.
47. Owusu Addo, A. R., Kquofi, S. & Arthur, N.A.P., (2020). Documenting Selected Artefacts of the Royal Regalia of Akwamumanhene. *Research on Humanities and Social Sciences*,10(10): 1-9.
48. Akomeah R, Asante E. A, Arthur N. A. P. (2019). A Descriptive and Historical Analysis of Sanga Traditional Dance of the Asantes. *English Language, Literature & Culture*. 4(1):8-16.
49. Essel, R. Essel, H.B., Osei-Poku P, and Saah, A. A (2020). Evaluation of Distance Education and widening access to higher education in Kwame Nkrumah University of Science and Technology. *International Journal of Research and Innovation in Science*, 5(7):250-256.
50. Essel, R., Essel, H.B. Osei-Poku, P and Saah, A. A. (2020). Challenges and effects of providing feedback to improve learning in Distance Education: A case study of KNUST, Kumasi, Ghana. *Library, Philosophy and Practice Journal*.
51. Koomson, E. Osei, M. and Essel, R. (2020). Beyond words: Art therapy for self expression with female inmates, *Nairobi Journal of Humanities and social sciences*,4(3): 28-46.

DEPARTMENT OF INDUSTRIAL ART

ACADEMIC STAFF

Associate Professors:

P. S. Kwawukume #	PG. Dip, BA (Kumasi), MPhil (UK)
C. Frimpong	PhD (Kumasi), MSc (Belgium), PG.Dip, BA (Kumasi)
V. E. Adu-Gyamfi #	MFA (US), BA (Kumasi)

Senior Lecturers:

E. K. Howard	PhD, MFA, MA (Kumasi), BA
R. Steiner#	PhD, MA, BA, Dip. (Kumasi)
B. K. Asinyo	PhD, BA (Kumasi)
S. Nortey	PhD, BA (Kumasi)
P. A. Fening	PhD, BA (Kumasi)
K. Asubonteng	MPhil/PhD, BA (Kumasi)
A. E. Asmah#	PhD, MPhil, BA, PG. Dip, Dip. (Kumasi)
V. Okpattah	MPhil/PhD, BA, (Kumasi)
A. B. Essuman	MFA (Norway), BA (Kumasi)
W. Badoe	MA, BA (Kumasi)
A. M. Amankwah	MDes, (UK), BA (Kumasi)
K. Adjei	MFA, BA (Kumasi)

Lecturers:

R. Amoanyi	PhD, BA (Kumasi)
L. Gbologah	PhD (Kumasi), MSc, (China), BA (Kumasi)
K. K. Agyeman	MPhil/PhD, BA (Kumasi)
B. Tawiah	PhD, MEng (China), PG. Dip (Accra), BA (Kumasi)
M. K. Baidoo	PhD, MFA, BA (Kumasi)

H. O. Dompkeh	MA, PG. Dip, BA (Kumasi)
C. Adu-Boachie	MPhil, BA (Kumasi)
I. K. Agyei	MA, BA (Kumasi)
C. E. Adala	MFA, BA (Kumasi)
S. B. Kissi	MFA, BA (Kumasi)
C. A. Chichi	MA (UK), BA (Kumasi)
H. A. Quaye	MA, PG. Dip, BA (Kumasi)
E. Tabi-Agyei	MPhil, BA, Dip. (Kumasi)
F. A. Clement	MA (Norway), MA, BA (Kumasi)
E. Padditey	MA (Norway), BA (Kumasi)

Assistant Lecturers:

J. Opoku MFA, BA (Kumasi)

#On post-retirement contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Fobiri, G.K., Ayesu, S.M., Howard, E.K., Crentsil, T., Nyarko, M.O. and Schall, M. (2020) Multifunctional Product Design Concept in Mixed-Media Textile Lampshades. *Journal of Textile Science and Technology*, 6, 218-231. ISSN Online: 2379-1551 Print: 2379-1543 DOI: 10.4236/jtst.2020.64018.
2. Ayesu S. M, Asare T. O, Siaw A. O, Nyarko, M. O, Howard, E. K et al. (2020). An Integrated concept to 3D Innovations in Page 2 of 6 Garment Manufacture. *International Journal of Fashion Technology and Textile Engineering*. 2(1): 1-6. DOI: 10.15226/2641-760X/2/1/00109.
3. Adu-Poku, A., Howard, E. K., Adu-Agyem, J and Asinyo, B. K (2020). Support Systems: Essential Pivots of Textiles Education in Senior High Schools in Ghana. *The International Journal of Humanities & Social Studies*, 8(7): 68-80.
4. Narh, C., Badoe, B., Howard, E. K., Lina, N. X., Mensah, A, Wanga, T., Wanga, Q., Huang, F., and Wei, Q. (2020). Synthesized OH Radical Rich Bacteria Cellulosic Pockets with Photodynamic Bacteria Inactivation Properties Against *S. Ureus* and *E. Coli*. *Materials Science & Engineering*.

5. Manu, G. O., Howard, E. K., Adom, D., & Agyemang, O. (2020). Textile Installations Inspired by Cubism for Biodiversity Sustainability Education. *Journal of Urban Culture Research*, 20: 55-68.
6. Howard, E. K., Frimpong, C., and Seidu, R. (2019). Assessment of Attitudes and Practices of Students and Practitioners toward Studio Dyeing in Ghana. *Research Journal of Textile and Apparel*. Emerald Publishing, 23(3):189-200.
7. Howard, E. K., Asinyo, B. K., Kushiator, G., Ayasu-Marfo, S. & Twumasi-Appiah, S. (2019). Customer Loyalty Through Branding and Packaging of Printed Fabrics of Major Textile Factories in Ghana. *Fashion and Textile Review*.1(1): 51 – 71.
8. Kushiator, G, Howard, E.K, Rahman, A, Quaye, A. H, Dompok, H. O (2019). Integration of Media Technology: Painting, Photography and Digital Art as Cultural Expressions in Ghana. *Africa Development and Resources Research Institute Journal*, 28: 1-20.
9. Adala, C. E, Howard, E. K. and Amanor-Boadu, T. (2019). Crossing the Boundaries: Incorporating Crocheting in Hollow Metal Ware. *Fashion and Textile Review*, 1(2):97-106.
10. Charles Frimpong, Josephine Opoku & Raphael Kanyire Seidu (2020) The State of Kete Development in the Volta Region. *Textile*, 18:4, 430-450, DOI: 10.1080/14759756.2020.1762 274.
11. Nortey, S., Bodjawah, E.K. & Kissiedu, K.B. (2019). Traditional African Art Technologies and Contemporary Art Practice. *Studies in Visual Arts and Communication*, 6:2, 1-10.
12. Nortey, S., Asiedu-Kwarteng, J., & Amoanyi, R. (2020). Development of Feldspathic Glaze for the Pottery Industry. *African Research Review*, 14:2, 1-13.
13. Nortey, S. & Asiamoaso, E. (2019). The effect of the Decline of pottery and socio-economic implications on the Potter, *Ghana Journal of Science*, 60:2, 42-54.
14. Nortey, S. Amoanyi, R. & Adubah, D.A (2020). Ceramic Art Practice in Ghana. *International Journal of Arts and Humanities*, 9:2, 125-141.
15. Nortey, S. (2020). Twenty-First Century Contemporary Ceramic Art in Ghana: Emerging Visual Language and Practice. *Journal of African Arts and Culture*, 4:1, 1-20.
16. Bodjawah, E.K., Nortey, S. & Boafo, K.K (2019). Modernism and Reforms in Contemporary Ghanaian Art Education. *International Journal of Education through Art*, 15:2, 45-56.

17. Nortey, S., Amoanyi, R. & Okai, E.K. (2019). Towards a Sustainable Ceramic Industry: An Assessment of the Working Environment using the Five Forces Industrial Model. *STU International Journal of Technology*, 1:7, 1-17.
18. Adala C. E., Howard E. K and Amanor-Boadu T, (2019). Crossing Boundaries: Incorporating Crocheting in Hollow Metal Ware. *Fashion and Textiles Review*, 1(2): 97 – 106.
19. Adala C. E, Agyei I. K and Kissi S. B. (2020). Metal Fasteners for the Local Fashion Accessories Industry in Ghana. *American Journal of Art and Design*, 5(3):31-38.
20. Ofori, S. K. D., Adala, C. E., and Agyeman, K. K. (2020). Wire Weaving for the Production of Light Fittings. *International Journal of Innovative Science and Research Technology*,5(3):345-364.
21. Yongdan Hou, Lemuel Gbologah, Derrick Boateng Asante and Parpah Senanu Kwawukume. (2020). Compositional and Structural Deficiencies causing Failure of Local Fire Assaying Crucibles in Ghana. *International Journal of Engineering Research in Africa*, 51: 57-70.
22. Xiaoyu Zhao, Haocun Yang, Yongdan Hou, Lemuel Gbologah, Liang Zhu and Yanfei Wang (2019). Systematically Controlled Synthesis of rGO/nano-MnOx Materials for Supercapacitors. *Progress in Natural Science: Materials International* 29(5):504-510. DOI: 10.1016/j.pnsc.2019.09.003.
23. Lemuel Gbologah, Yongdan Hou, Eli Gaveh, Michael Dika and Parpah Senanu Kwawukume (2020) Sustainable Ceramic Hive for Beekeeping in West Africa: Structural Design and Materials Aspects for Mass Production. *Journal of Science and Technology*.
24. Appiah-Kubi, O. P., Agyeman, K. K., Clement, F. A., Quaye, H. A. (2020). Automobiles Branding Methods and Materials in Ghana. *International Journal of Innovative Science and Research Technology (IJISRT)*.
25. Appiah-Kubi, O. P., Agyeman, K. K., Clement, F. A, Quaye, H. A. (2020). Challenges Associated with the Use of Radio Frequency Identification Tags and Vehicular Access Control Systems: A Case Study of Two Ghana Universities. *International Journal of Innovative Science and Research Technology (IJISRT)*, 5(6) :1327 – 1332.
26. Ansah, B., Agyeman, K. K., Quaye, H. A., Clement, F. A. (2020). Water Fountain in Iron and Aluminium Cast Utensils. *International Journal of Innovative Science and Research Technology (IJISRT)*.

27. Clement, F. A., Agyeman, K. K., Quaye, H. A., Padditey, E. (2020). Fire-Retarding Ceiling Panel from Recycled Paper Waste. *International Journal of Innovative Science and Research Technology (IJISRT)*.
28. Clement, F. A., Agyeman, K. K., Padditey, E., Quaye, H. A. (2020). Beaded Kente Ladies Shoe (Stilettos) for Contemporary Ghanaian Traditional Weddings. *International Journal of Innovative Science and Research Technology (IJISRT)*.
29. Agyeman, K. K., Quaye, H. A., Clement F. A., Sarpong T. A. (2020). Adaptation of the Local Ghanaian Caldron (“Dadesen”) for Drums Shells. *International Journal of Innovative Science and Research Technology (IJISRT)*.
30. Quaye, H. A., Agyeman, K. K., Ocansey, K. A. (2020). The Concept of Filigree. *The International Humanities and Social Sciences (IJHSS)*, 8(4): 387-395.
31. Quaye, H. A., Agyeman, K. K., Otabil, B. (2020). Identification and Analyses of Elements for Souvenir Making for Mausoleums: Kwame Nkrumah Mausoleum (KNM) as a Case Study. *The International Journal of Science & Technoledge (IJST)*.
32. Agyeman, K. K., Quaye, H. A., Clement F. A., Ofori, S. K. D. (2020). Fast, Easier and Effective Approach to the Fabrication of a 3D Logo from a 2D Concept. *International Journal of Innovative Science and Research Technology (IJISRT)*, 5(3): 609-624.
33. Quaye H. A., Agyeman, K. K., Tachie-Mensah, J. (2020). Conversion Strategies of Palm Kernel Shells for Costume Jewellery. *International Journal of Innovative Science and Research Technology*.
34. Ofori, S. K. D., Adala, C. E., Agyeman, K. K. (2020), Wire Weaving for the Production of Light Fittings. *International Journal of Innovative Science and Research Technology (IJISRT)*.
35. Clement, F. A., Agyeman, K. K., Padditey, E., and Quaye, H. A. (2020). Beaded Kente Ladies Shoe (Stilettos) for Contemporary Ghanaian Traditional Weddings. *International Journal of Innovative Science and Research Technology*, 5(6): 1364 – 1371.
36. Clement, F. A., Agyeman, K. K., Quaye, H. A. and Padditey, E., (2020). Fire-Retarding Ceiling Panel from Recycled Paper Waste. *International Journal of Innovative Science and Research Technology*, 5(6): 1372 – 1379.
37. Agyeman, K. K., Quaye, H. A., Clement F. A., and Ofori, S. K. D. (2020). Fast, Easier and Effective Approach to the Fabrication of a 3D Logo from a 2D Concept. *International Journal of Innovative Science and Research Technology*, 5(3): 609 – 624.

38. Ansah, B., Agyeman, K. K., Quaye, H. A. and Clement, F. A. (2020). Ghanaian Local Aluminum Cast Utensil Forms for Fountain Production. *International Journal of Innovative Science and Research Technology*, 5(6): 1333 – 1345.
39. Kushiator, G., Rahman, A., and Ofori, D. H. (2020). The Influence of Western Culture on Traditional Art Forms and Cultural Practices: 'Akuaba' Doll Among Akan Women in Africa. *Africa Development and Resources Research Institute (ADRRRI)*, 17(5).
40. Ofori, D. H., Larbi P. F., Kushiator G., Okyere B K, (2020). Design and Fabrication of a Sheet Metal Statue: A Symbol of Reflection on Mother and Child Affection. *Africa Development and Resources Research Institute (ADRRRI) Journal*; 17(6): 38-58.
41. Ofori, D. H., Kushiator G., Agyeman, K.K; Baah, K.S. (2020). The Casting and Replication of an 'Akuaba Doll' in Metal Art. *Africa Development and Resources Research Institute (ADRRRI) Journal*, 28(12):78-97.
42. Samuel Baah Kissi, Hughes Ofori Dompok, Charles Osei Bonsu, Ohemaa Cootes, (2019). Enhancing the Aesthetics and Transportability of Container-Kiosk in Ghana. *Journal of Arts & Humanities*, 8(7): 60-68.
43. Oppong Christopher Effah, Hughes Ofori Dompok, Eric Appau Asante, Samuel Baah Kissi, (2019). An Examination of the Production Processes of Brass Casting Among the Asantes: The Case of Krofofrom in Ashanti Region of Ghana. *American Journal of Art and Design*, 4(4):58-67.
44. Badoe W, Donudenu A. S., Quaye H. A., KushiatorG., (2020). Transformation of Juncaceae into Varied Artifacts: Exploring the Frontiers of Textile Art Production in Southern Volta Region of Ghana. *International Journal of Herbs and Pharmacological Research IJHPR*, 9(1): 14-26.
45. Tawiah, B., Yu, B., Yuen, A. C. Y., Fei, B. (2020). Facile preparation of uniform polydopamine particles and its application as an environmentally friendly flame retardant for biodegradable polylactic acid. *Journal of Fire Sciences*, 38(6), 485-503.
46. Tawiah, B., Zhou, Y., Yuen, R. K., Sun, J., Fei, B. (2020). Microporous boron based intumescent macrocycle flame retardant for poly (lactic acid) with excellent UV protection. *Chemical Engineering Journal*, 402, 126209.
47. Wang, Yidi, Liangfeng Luo, Ziqi Wang, Tawiah, B., Chang L., Xin J. H., Fei B. Wai-Yeung W. (2020). Growing Poly (norepinephrine) Layer over Individual Nanoparticles to Boost Hybrid Perovskite Photocatalyst. *ACS Applied Materials & Interfaces*, 12(24):27578-27586.

48. Tawiah, B, Bin Y, Yuen R. K.K, Yuan H., Ruichao W., Xin J. H., Fei B. (2019). Highly efficient flame retardant and smoke suppression mechanism of boron modified graphene Oxide/Poly (Lactic acid) nanocomposites. *Carbon*,150: 8-20.
49. Wang L, Tawiah B, Shi Y, Cai S, Rao X, Liu C, Yang Y, Yang F, Yu B, Liang Y, Fu L. (2019). Highly Effective Flame-Retardant Rigid Polyurethane Foams: Fabrication and Applications in Inhibition of Coal Combustion. *Polymers*, 11(11):1776.
50. Tawiah B., Yu B., Yang W., Yuen, R. K. K., Fei, B. (2019). Flame retardant poly (lactic acid) biocomposites based on azo-boron coupled 4, 4'-sulfonyldiphenol and its combination with calcium lignosulfonate—Crystalline and mechanical properties. *Polymers for Advanced Technologies*, 30(9), 2207-2220.
51. Tawiah, B., Yu, B., Ullah, S., Wei, R., Yuen, R. K. K., Xin, J. H., & Fei, B. (2019). Flame retardant poly (lactic acid) biocomposites reinforced by recycled wool fibers-Thermal and mechanical properties. *Express Polymer Letters*, 13(8).
52. Agyei, K. I., Bediako, O. O, Adom, D. (2020). Metal Welding Sculptural Portraiture for the Historical Remembrance of Political Figures in Ghana: The Case of Osagyefo Dr. Kwame Nkrumah; *Global Journal of HUMAN-SOCIAL SCIENCE. Arts & Humanities – Psychology*,20(19).
53. Agyei, K. I., Baidoo, M. K., Adu-Agyem, Joe (2020). Design and Production of Desktop Organizer for Kwame Nkrumah University of Science and Technology. *International Journal of Innovative Research and Advanced Studies (IJRAS)*;7(7)
54. Agyei, K. I., Adu-Agyem, J., Fenning, A. P., Baidoo, K. M., Kissi Baah, S., Adala, E. C. (2020). Design and Fabrication of Metal Key Holder and Cufflinks as Souvenirs for Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. *Journal of Arts and Design Studies*, 83.
55. Adala C. E, Agyei K. I. and Kissi S. B. (2020), Metal Fasteners for the Local Fashion Accessories Industry in Ghana. *American Journal of Art and Design*, 5(3):31-38.
56. Agyei, K. I., Fening, P.A., Adjei, K. (2020) Design and construction of a device for doming and punching. *International Journal of Innovative Research and Development (IJIRD)*,9(8).
57. Agyei, K. I., Fening, P.A., Adu-Boachie, C., Asare, O.A. (2020). Avocado Pear as A Source of Inspiration for the Design of a Model Truck as a Desk Organiser. *Arts and Design Studies (IISTE)*,86(5).

CONFERENCE PAPERS/PROCEEDINGS

1. Clement, F. A., Osafo Gyasi, J., Agyeman, K. K. and Padditey, E., (2020). Designs on Glass Beads as Inspiration for Packaging Glass Beads. International Conference on Applied Sciences and Technology (ICAST 2020). Technical and Vocational Education: The bedrock for National Development. Virtual Conference via Zoom. 7th – 8th October, 2020.
2. Clement, F. A., Agyeman, K. K. and Quaye, H. A. (2020). Ceiling Panel from Recycled Paper Waste with Fire-Retarding Quality. International Conference on Applied Sciences and Technology (ICAST 2020). Technical and Vocational Education: The bedrock for National Development. Virtual Conference via Zoom. 7th – 8th October, 2020.
3. Agyeman, K. K., Clement, F. A., and Appiah-Kubi, O. P. (2020). The Challenges Associated with The Use of Radio Frequency Identification Tags and Vehicular Access Control Systems Design: A Case Study of KNUST and University of Ghana. International Conference on Applied Sciences and Technology (ICAST 2020). Technical and Vocational Education. The bedrock for National Development. Virtual Conference via Zoom. 7th – 8th October, 2020.
4. Okai-Mensah, C. K., Howard, E. K. and Osei, M. A (2020). Implementation of Design Thinking and Innovation Strategies by Ghanaian Companies: A Case of CPC. 9th Applied Research Conference in Africa. Inclusive and Equitable Quality Education and Lifelong Learning Opportunities for all – The Role of Researchers. 24th to 27th August, 2020. University of Cape Coast, Ghana.

BOOK PUBLICATIONS

1. Howard, E. K., Asinyo, B. & Twumasi-Appiah, S. (2019). Customer Loyalty Through Branding and Packaging of Printed Fabrics. Lambert Academic Publishing. Member of OmniScriptum Publishing Group. 17 Meldrum Street. Beau Bassin 17504, Mauritius. ISBN 978-620-0-24797-1.

RESEARCH PROJECT

1. Lemuel Gbologhah, (Principal Investigator) Prolonged cycling life of locally produced crucible for fire assaying in Ghana: Commercial production. Project under the 2020-21 5th KReF award.
2. Lemuel Gbologhah, (Principal Investigator) Sustainable Low Siliceous Contained Bone Ash Cupel for Gold Refinery in Ghana. Project under the 2019 CABE award.

3. E. K. Howard Kente (Textile Expert). Value Chain Project. Technology Consultancy Centre (TCC), KNUST for Rural Enterprise Project (REP). 2020.

DEPARTMENT OF LAND ECONOMY

ACADEMIC STAFF

Professors:

R. K. Kasanga#	PhD (UK)
J. T. Bugri	PhD (UK)
R. D. Dinye	PhD (Germany)

Senior Lecturers:

J. Z. Ayitey	MPhil (UK)
F. Gyamfi-Yeboah	PhD (US)
W. M. Adolwine	MPhil (UK)
E. P. Tudzi	PhD (Kumasi)
E. Yeboah*	PhD (UK)
J. K. Kidido	PhD (Kumasi)

Lecturers:

J. Frimpong-Asante	MSc (Kumasi)
E. K. Gavu	PhD (Germany)
K. O. Nkrumah#	MPhil (Legon)
S. Agyeman-Yeboah	PhD (UK)
K. A. Donkor-Hyiaman	PhD (UK)
A. Adjei-Twum	PhD (Malaysia)
D. F. Issah	PhD (UK)
A. D. O. A. Antwi	MSc (Dubai)
M. O. Yeboah#	MSc (Legon)

* *On secondment at the Office of the Senior Minister*

Part-Time

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Ayitey, J. Z and Adamu, K. (Forthcoming). Is Ghana prepared for the introduction of a land-based property tax system? *Regional Science and Urban Economics*
2. Gavu, E. K. (2020). Conceptualizing Rental Housing Market Structure in Ghana, *Housing Policy Debate*.
3. Kidido, J.K, and Bugri, J.T (2020). Youth Access to Agricultural Land from Peri-urban and Rural Perspective: A Study of Techiman Traditional Area in Ghana, *Journal of Land and Rural Studies*, 8(1): 37-56
4. Kidido, J.K, and Bugri, J.T (2020). Land Dispute and Resolution Process Among the Youth Under the Customary System in the Techiman Traditional Area of Ghana. *African Journal on Land Policy and Geospatial Sciences*, 3(1): 46-57
5. Kidido, J.K, and Lengoiboni, M. (2019). Household Land Allocations and the Youth Land Access Nexus: Evidence from the Techiman Area of Ghana. *Land*, 8:1-19.
6. Kidido, J.K, and Bugri, J.T (2019). Gender Dimensions of Youth Access to Agricultural Land under Customary Tenure System in the Techiman Traditional Area of Ghana, *Journal of Planning and Land Management*, 1(1):81-103
7. Soyeh K., Kim D. and Gyamfi-Yeboah F. (Forthcoming). [The Role of Debt in REITs Equity Issuance at Discount to Net Asset Values \(NAVs\)](#). *Journal of Real Estate Research*.
8. Tudzi, E., Bugri, J. and Danso, A (2020). Experiences of Students with Disabilities in Inaccessible Built Environments: A Case Study of a Student with Mobility Impairment in a University in Ghana. *Scandinavian Journal of Disability Research*, 22(1):116-126
9. Ehwi, J.E., Asante, L.A. and Gavu, E.K. (forthcoming) Towards a well-informed rental housing policy in Ghana: Differentiating between critics and non-critics of the rent advance system, *International Journal of Housing Markets and Analysis*
10. Akinsomi, O., Gavu, E.K. and Odunsi, T. (2020). Organisers' Announcement: Future Leaders of the African Real Estate Society. *Journal of African Real Estate Research*, 5(2):1-14.

11. Gavu, E.K. and Owusu-Ansah, A. (2019) Empirical analysis of residential submarket conceptualisation in Ghana, *International Journal of Housing Markets and Analysis*.
12. Gavu, E.K., Gruehn, D., Schulte, K.-W., and Asante, L. A. (2019). Stakeholders' perception of residential rental value determinants in Ghana. *Journal of African Real Estate Research*, 4(1): 45–73.
13. Wuni, I. Y., Shen, G. O., Osei-Kyei, R. and Agyeman-Yeboah, S. (2020). Modelling the critical risk factors for modular integrated construction projects. *International Journal of Construction Management*.

CONFERENCE PAPERS

1. Mkpado, M., Ngube, A., Chika, I. A. and Kidido, J. K. (2019). How does Trade Partnership, Colonization and Foreign Direct Investments Affect Land Trade? Evidence from West Africa. A Paper presented at the Conference on Land Policy in Africa (CLPA-2019), Sofitel Abidjan Hotel Ivoire, Abidjan, Côte d'Ivoire, 25th – 29th November 2019,
2. Ayitey, J. Z, Simpson, Korsi, P. K. and Simpson, P. K. (2020). The Role of Urban Land Market in Sustainable Peri-urbanisation of Accra, Ghana. A Paper presented at the American Real Estate Society-36th Annual Meeting 2020. Fort Myers, Florida, USA, 14th – 18th April, 2020.
3. Tudzi, E.P., Bugri, J.T., Kuusaana, E.D., Gavu, E.K. and Danso, A.K. (2019). Accessibility for Persons with Disabilities: A study of the University for Development Studies, A Paper presented at the 4th Annual Conference on Disability and Development (DC19) Lancaster University Ghana, Accra, Ghana 15th March, 2019
4. Gavu, E.K. (2019). Rental value determinants and conceptualisation in Ghana: Stakeholder perception versus empirical evidence, Paper presented at the American Real Estate Society (ARES) 2019 Conference. 9th-13th April 2019. JW Marriott Camelback Inn in Paradise Valley, Arizona, USA: American Real Estate Society
5. Gavu, E.K. and Gruehn, D. (2019) Empirical Conceptualisation of Residential Rental Values in Ghana – understanding price premiums of location and neighbourhood effects, Paper presented at the African Real Estate Society (AfRES) 2019 Conference. 10th – 13th September 2019. Arusha, Tanzania: African Real Estate Society

BOOK CHAPTERS

1. De Vries, W. T., Bugri, J. T. and Mandu, F. (Forthcoming). Framework of Responsible and Smart Land Management Interventions. An African Context, Boca Raton, CRC Press, Taylor and Francis Group, pp 3-7
2. Gyamf-Yeboah, F. and Awuah, K. G. B. (Forthcoming). 'Variation in Property Valuation and Market Data Sources in Ghana', In De Vries, W. T., Bugri, J. T. and Mandu, F. (eds). Responsible and Smart Land Management Interventions: An African Context, Boca Raton, CRC Press, Taylor and Francis Group.

DEPARTMENT OF PAINTING AND SCULPTURE

ACADEMIC STAFF

Associate Professors:

* E. K. Bodjawah BA, MFA, PhD

Senior Lecturers:

kaŋi'kaçä seid'ou BA, MFA, PG DIP, PhD, BSc

G. Y. Annum# DIP, BA, MFA, PhD

E. Antwi BA, MFA, PhD

K. Opoku-Bonsu BA, MFA

Lecturers:

F. A. Anim BA, MFA

K. B. Kissiedu BA, MFA

M. Adashie DIP, BA, MFA

Dorothy A. Amenuke BA, MA, MFA, PhD

Y.M. Jectey-Mantey BA, MFA, PhD

K. A. Poku BA, MFA

G. Ampratwum BA, MA

E. E. Donkor BFA, MFA

B. Akoi-Jackson

BFA, MFA

Research Fellow:

E. O. Bonsoo

BA Art, MFA

On Contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. seid'ou, kɔrɔ'k chɛ (2020). Ibrahim Mahama's Taxidermies at Play: An Epitaph from a Living Dead. *International Journal of Art and Art History*. 8 (1):67-85. ISSN: 2374-2321 (Print), 2374-233X (Online).
2. seid'ou, kɔrɔ'k chɛ (2020). Changing Lessons: The Kumasi School of "Art and Crafts" in a Scottish Regime (1952-1962). *Asian Research Journal of Arts and Social Sciences*. 11(1): 42-71.
3. Adjei, K., Wynn, Keaton; seid'ou, kɔrɔ'k chɛ (2020). Bridging Worlds in Clay: The Ceramics of K. K. Broni, A Ghanaian protégé of Michael Cardew And Peter Voukos. *Review of Arts and Humanities*. 9 (1): 13-24.
4. seid'ou, kɔrɔ'k chɛ; Ampratwum, George; Kissiedu Kwaku Boafo (2020). Lee Nukpe's Nubile: A Carving with a Shadow. *Advances in Social Sciences Research Journal*. 7(6): 243-270.
5. Bodjawah, E K.; Nortey S. & Kissiedu, KB (2019). Traditional African Art Technologies and Contemporary Art Practice. *Studies in Visual Arts and Communication*,6(2).
6. Akoi-Jackson, B. (2019). Of Blind Spots and Chasing Shadows in Ndikung, S. B. B. with Ohene-Ayeh, K. Harmel, A. Lepoultier, A. S., (Eds) (2020). Streams of Consciousness a Concatenation of Dividuals. Catalogue of the 12th edition of the Bamako Encounter. *African Biennial of Photography*.
7. Godfred Y. Annum (2019). Exploration of the Shape Drawing Tools in Microsoft Word for Fostering Idea Development in the Ghanaian Indigenous Kente Weaving Industry. *Journal of Science and Technology*,37(2).
8. Akoi-Jackson, B. Mbongwa, K. Ntombela, N. (2019). Tomorrow there will be more of us: 2020 Curatorial Statement in Obsidian. *Literature & Arts in the African Diaspora*.

CONFERENCE/ARTS EXHIBITIONS

1. Kari kacha seid'ou, Edwin Kwesi Bodjawah, Tracy Thompson, Ibrahim Mahama, Robin Riskin, Salassie Sosu. 21st Century Emancipatory Pedagogy

in Africa. Streams of Consciousness 12th Edition of Bamako Encounters. Bamako, Mali. 30th November 2019-31st January 2020.

2. AKUTIA: Blindfolding the Sun and the Poetics of Peace, (A Retrospective of Agyeman Osei, 'Dota') is an exhibition organised by the Department of Painting and Sculpture in collaboration with SCCA, Tamale on the 4th September, 2020, through March 2021 at SCCA. and at Red Clay on 5th September 2020. The exhibition is sponsored by SCCA TAMALE, blaxTARLINES KUMASI, RED CLAY and Foundation for Contemporary Art-Ghana.
3. The Department organised the exhibition "Galle Winston Kofi Dawson: In Pursuit of Something Beautiful, perhaps" Curated by Bernard Akoi Jackson at the newly established Savannah Centre for Contemporary Art in Tamale. SCCA Tamale is the brainchild of world renowned Ghanaian artist Ibrahim Mahama. The exhibition runs from March 2019 to March 2020.
4. Bernard Akoi Jackson, Mr. Kwaku Boafo Kissiedu, accompanied Post-graduate students from the Department to the opening of the exhibition Umstand der Dinge: A State of Affairs, October 2019, a collaborative exhibition between the Department of Painting and Sculpture, KNUST, Kumasi, Ghana and Hochschule für bildende Künste, Hamburg, Germany.
5. The Department was represented by Bernard Akoi Jackson in the exhibition: THE FACULTY OF SENSING– Thinking with, Through, and by Anton Wilhelm Amo. March–August 2020, with extension to September, 2020 participated in the group Kunstverein Braunschweig, Germany.
6. The Artist: Worker. Entrepreneur. Visionary 7th January, 2020 – 11th January 2020, ACIG Artistic exhibition and Workshop at blaxTARLINES KUMASI KNUST and Alliance Française, Kumasi.
7. The Department was represented at the Stellenbosch Triennale 2020 in South Africa by Dr. Bernard Akoi Jackson.
8. Three members of Staff from the Department including two PhD students participated in the CritLab project 2020 from October 20th – 31st, 2020, Organized by FCA (Ghana), in collaboration with Exit Frame Collective, Ghana.
9. Bernard Akoi Jackson moderated a Panel discussion on Memory in the context of the international project Burden of Memory: Considering German Colonial History in Africa held from 6th November, 2019 – 16th November, 2019 in Yaounde, Cameroon.
10. Bernard Akoi Jackson Member of the Research team for a project on Art and Mental Health with Ursula Read, King's College, London, Lily Kpobi

University of Ghana, Legon, and Sarah Dorgbadzi, School of Performing Arts, University of Ghana, Legon.

11. The Department was represented by Dr. Bernard Akoi Jackson in a workshop session to conceptualize and draft a proposal for the ongoing museum work for the Goethe-Institut regionally from the year 2020, from 4th to 5th May 2019 in Johannesburg, South Africa. The workshop was to generate a concrete project proposal and rough budget for the establishment of a “New type of Museum for the future”.
12. In collaboration with the Department of Painting and Sculpture and Institut Français, Bernard Akoi Jackson visited Paris, France from 27th April, to 30th April, 2019. in order to conduct research and participate in meetings towards the realization of a collaborative project between his collective “Exit Frame,” (Ghana) and La Condition Publique (France) in the larger “Africa Season 2020 Project”, an initiative of his Excellency the President of the Republic of France, Mr. Emmanuel Macron, under the directorship of cultural animateur, N’Goné Fall. The project involves Exit Frame Collective, blaxTARLINES KUMASI and The Foundation for Contemporary Art (FCA, Ghana).
13. A joint exhibition and lecture series organised by the Department and University of Fine Arts Hamburg from the 20th to the 28th of October 2019. K. B. Kissiedu led a group comprising two lecturers and six postgraduate students to represent the Department.
14. K. B. Kissiedu took four students to the Kolding School of Design in Denmark for a three-week study exchange and museums tour programme from the 20th of November to the 11th of December 2019.
15. The Department hosted 20 students and three lecturers from the Kolding School of Design in Denmark for Three weeks of joint studio and lecture sessions in February 2020. Coordinated by K. B. Kissiedu.
16. Akoi-Jackson, B. (2019). First and Foremost, Acknowledgements and dedications in Stellenbosch Triennale (2020) Catalogue of the 1st Stellenbosch Triennale 11 February-30 April 2020. Tomorrow There would be More of Us. Tip Africa Publishing (Pty) Ltd. South Africa. www.tipafrica.co.za
17. Akoi-Jackson, B. (2019). On the CUSP: A Case for Sustainability and a Leap into Vast Futures... in Stellenbosch Triennale (2020) Catalogue of the 1st Stellenbosch Triennale 11 February-30 April 2020. Tomorrow There would be More of Us. Tip Africa Publishing (Pty) Ltd. South Africa. www.tipafrica.co.za

18. Akoi-Jackson, B. Mbongwa, K. Ntombela, N. (2019) Tomorrow there will be more of us: 2020 Curatorial Statement in Obsidian: Literature & Arts in the African Diaspora. Journal Edition 45.2 (2020). Department of English. Illinois State University. USA. ISSN 0888-4412 ISBN 978-0-9974041-6-6.

BOOK CHAPTERS

1. seid'ou, qarĩ'kachä and Bouhwuis, Jelle. (December, 2019). Renzo Martens; Tretiakov in the Congo? In Anthony Downey (Ed.), Critique in Practice—Renzo Martens “Episode III: Enjoy Poverty”. Berlin: Sternberg Press. [Associate Editor: Els Roelandt] ISBN 978-3-95679-505-3
2. seid'ou, qarĩ'kachä. (2020). “Hand and Eye Work” in Gold Coast Colonial Modernism: A Genealogical History of Ghana’s Fossilized Art Curriculum. In Vlasta Hus (Ed.), New Horizons in Education and Social Studies. London, West Bengal: Book Publisher International, pp. 136-161 Print ISBN: 978-93-90206-49-0, eBook ISBN: 978-93-90206-50-6 DOI: 10.9734/bpi/nhess/v2
3. a. CHAPTER IN ENGLISH [BROWN] VOLUME
Seid'ou, qarĩ'kachä. (2019). ‘Shadows are Telegrams Awaiting Reply: 30x30x30...’ Streams of Consciousness: A Concatenation of Dividuals [Bonaventure Soh Bejeng Ndikung, with Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh (Editors)]. 12th Edition of the Bamako Encounters. Archive Books / Editions Balani’s, pp. 219-222. ISBN 978-3-948212-20-9
- b. TRANSLATION IN FRENCH [BLUE] VOLUME
Seid'ou, qarĩ'kachä. (2019). ‘Les Ombres ne sont que des telegrammes dans l’attente d’une réponse: 30x30x30...’. Courants de conscience: Une concaténation de “Dividus”. [Edité par Bonaventure Soh Bejeng Ndikung avec Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh]. Archive Books / Editions Balani’s, pp. 231-236. ISBN 978-3-948212-19-3 [French Translation by Ibrahim Cissé assisted by qarĩ'kachä seid'ou].
4. a. CHAPTER IN ENGLISH [BROWN] VOLUME
Seid'ou, qarĩ'kachä. (2019). ‘Appendix Appendicitis’. Streams of Consciousness: A Concatenation of Dividuals. [Bonaventure Soh Bejeng Ndikung, Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh (Editors)]. 12th Edition of the Bamako Encounters. Archive Books / Editions Balani’s, pp. 129,130. ISBN 978-3-948212-20-9

b. TRANSLATION IN FRENCH [BLUE] VOLUME

Seid'ou, qar'kacha. (2019). 'Appendix Appendicite'. Courants de conscience: Une concaténation de "Dividus". [Edité par Bonaventure Soh Bejeng Ndikung avec Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh]. Archive Books / Editions Balani's, pp. 135, 136. ISBN 978-3-948212-19-3 [French Translation by Ibrahim Cissé assisted by qar'kacha seid'ou].

5. a. CHAPTER IN ENGLISH [BROWN] VOLUME

Seid'ou, qar'kacha (2019). 'Untitled 1'. Streams of Consciousness: A Concatenation of Dividuals. [Bonaventure Soh Bejeng Ndikung, Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh (Editors)]. 12th Edition of the Bamako Encounters. Archive Books / Editions Balani's, pp. 234. ISBN 978-3-948212-20-9

b. TRANSLATION IN FRENCH [BLUE] VOLUME

Seid'ou, qar'kacha (2019). 'Sans Titre 1'. Courants de conscience: Une concaténation de "Dividus". [Edité par Bonaventure Soh Bejeng Ndikung avec Aziza Harmel, Astrid Sokona Lepoultier, Kwasi Ohene-Ayeh]. Archive Books / Editions Balani's, p. 248. ISBN 978-3-948212-19-3 [French Translation by Ibrahim Cissé and qar'kacha seid'ou].

DEPARTMENT OF CONSTRUCTION TECHNOLOGY AND MANAGEMENT

ACADEMIC STAFF

Professors:

# J. Ayarkwa	PhD (Japan), MPhil, BSc (Kumasi), Post Cert, FGIOC, MGhIS, MGIF, MISDS, MACI, MIBPSA, MELN, ICIOB.
# E. Badu	PhD (Japan), MSc (UK), BSc (Kumasi), Post Cert, FCIOB, FGhIS, FIPCSR, MFIG, FGIOC.

Associate Professors:

# F. D. K. Fugar	PhD (US), MPhil, BSc (Kumasi), FGhIS, FGIOC, MFIG, MNIQS, MSHRM.
B. K. Baiden	PhD, MSc (UK), BSc (Kumasi), FGIOC, MPMI, MAACE, AMASCE.

T. Adjei-Kumi	PhD, MSc (UK), BSc (Kumasi), MGIOC, MGhIS, MPMI, MIArb, PMP, MAACE.
A. K. Danso	PhD, MPhil, BSc (Kumasi), FGhIS, MGhIE, MGIOC.
D. Osei-Asibey	LLB, MSc, BSc, FGhIS, MGBA, MGIOC.
# P. Amoah	MSc, BSc (Kumasi), FGhIS, FGIOC, MFIG.
E. Adinyira	PhD, BSc (Kumasi), FRRAG, MGIOC, ICOB, MISDS.
D. Owusu-Manu	PhD, BSc (Kumasi), FRRAG, MIET, CMC, MGIOC, ChPA, FALPS, MIOD.

Senior Lecturers:

# A. Dansoh	MA (Japan), BSc, PGDip (Kumasi), MGIA, MGIOC.
G. Nani	PhD, BSc (Kumasi), FGhIS, MGIOC, MFIG, MRICS, ACIPS.
# J. K. Hackman	MSc (UK), ICIOB, MGIOC, ABEng.
K. Agyekum	PhD, MPhil, BSc (Kumasi), MGIOC, MIET, MISDS, MIBPSA, MPABS, MPIE.

Lecturers:

J. C. Danku	MSc, BSc (Kumasi), MGhIS, MGIOC.
B. Simons	PhD, MArch, BSc (Kumasi), AGIA, MGIOC.
A. Acheampong	PhD, BSc (Kumasi), MGIOC, MPMI.
G. K. K. Acquah	PhD, BSc (Kumasi), MGIOC, MPMI, ICIOB, MASCE, MIET.
M. N. Addy	PhD (Kumasi), MSc (UK), BSc (Kumasi), MGIOC, MPMI, MIBPSA, PMP, MGhIS.
E. Kissi	PhD, MPhil, BSc (Kumasi), MGhIS, ICIOB, MGIOC, MPMI, MIET, MISDS.
I. M. A. Abu	PhD, BSc (Kumasi), MPMI.
B. Duodu	PhD (Hong Kong), MSc, MSc (UK), BSc (Kumasi)
G. Hagan	PhD, MSc (UK), BSc (Kumasi).
M. Adesi	PhD (UK), MPhil, BSc (Kumasi), MGIOC.

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Afful, A., Acquah, G. K. K., and Agyekum, K., (2019). Level of Knowledge of Design Professionals on the Principles of Social Sustainability in Ghana.
2. Agyekum, K., Blay, K. and Opoku, A. (2019). Mechanisms for preventing rising damp in new building infrastructure, *International Journal of Building Pathology and Adaptation*, 37(1): 87-107.
3. Agyekum, K., Adinyira, E., Baiden, B.K., Ampratwum, G. and Duah, D. (2019). Barriers to the adoption of green certification of buildings: A thematic analysis of verbatim comments from built environment professionals. *Journal of Engineering, Design and Technology*, 17(5): 1035-1055.
4. Akunyumu, S., Adjei-Kumi, T., Danku, J. C. and Kissi, E. (2019). Communication Problems in Projects – A Research Study for Construction Site Projects: A Case Study of Ghana. *International Journal of Project Organisation and Management*, 11(4): 343-361.
5. Ampratwum G., Agyekum K., Adinyira E. and Duah, D. (2019). A framework for the implementation of green certification of buildings in Ghana, *International Journal of Construction Management*, DOI: 10.1080/15623599.2019.1613207.
6. Ampratwum, G., Agyekum, K. and Adinyira, E. (2019). The need for governmental policies and strategies in green building certification in Ghana. *Acta Technica Corveniensis*, 12 (4): 37-42.
- Asamoah, R.O., Baiden, B., Nani, G. and Kissi, E. (2019). Review of Exogenous Economic Indicators Influencing Construction Industry. *Advances in Civil Engineering*, Vol. 2019, Article ID 6073289, 8 pages.
7. Blay, K., Agyekum, K. and Opoku, A. (2019). Actions, attitudes and beliefs of occupants in managing dampness in buildings, *International Journal of Building Pathology and Adaptation*, 37(1): 42-53.
8. Danso, A.K., Atuahene, B.T. and Agyekum, K. (2019). Accessibility of built infrastructure facilities for persons with disabilities, *International Journal of Engineering*, 17(4): 185-192.
9. Duodu, B. and Rowlinson, S., (2019). Intellectual capital for exploratory and exploitative innovation. *Journal of Intellectual Capital*, 20(3): 382 – 405.
10. Koranteng, C., Simons, B., Selorm, F., (2019). Audit of Auditoriums in an Academic Setting, Ghana. *Journal of Building Construction and Planning Research*, 7: 99-114.

11. Koranteng, C., Simons, B., Nyame-Tawiah, D., (2019). Green to Grey: An Urban Heat Assessment of Kumasi, Ghana. *International Journal of Environment and Climate Change*, 9(12): 751-763.
12. Kulkarni, S., Edwards, D.J. Chapman, C., Reza Hosseini, M., Owusu-Manu, D, (2019) A preliminary mechanical design evaluation of the Wikispeed car: for light-weighting implications, *Journal of Engineering, Design and Technology*, 17(1): 230-249,
13. Larbi, B.O., Baiden, B.K. and Agyekum, K. (2019). Compliance with Transparency Provisions in Public Procurement Act 2003 (Act 663). *International Journal of Procurement Management*, 12(1): 112-133.
14. Osei-Kyei, R., Chan A. P.C. & Dansoh, A., (2020) Project selection index for unsolicited public–private partnership proposals, *International Journal of Construction Management*, 20(6): 555-566.
15. Osei-Tutu, E., Adinyira, E., Ofori, A. P., Asamoah, R., Ankrah, S. J., (2019). Promoting Partnership with Traditional Authorities in Development Projects: A Model for Community Infrastructure Project Delivery in Ghana, *Ghana Journal of Science*, 60(2): 84-98.
16. Owusu-Manu, D., Edwards, D., Donkor-Hyiaman, K., Reza Hosseini, M. and Obiri-Yeboah, E. (2019), Housing attributes and relative house prices in Ghana, *International Journal of Building Pathology and Adaptation*, 37(5): 733-746.
17. Owusu-Manu, D., Edwards, D., Mohammed, A., Thwala, W. and Birch, T. (2019), Short run causal relationship between foreign direct investment (FDI) and infrastructure development, *Journal of Engineering, Design and Technology*, 17(6): 1202-1221.
18. Owusu-Manu, D., Jehuri, A.B., Edwards, D.J, Boateng, F. and Asumadu, G., (2019), The Impact of Infrastructure Development on Economic Growth in Sub-Saharan Africa with Special Focus on Ghana. *Journal of Financial Management of Property and Construction*, 24(3): 253-273.
19. Owusu-Manu, D., Asiedu, R., Edwards, D., Donkor-Hyiaman, K., Abuntori, P. and El-Gohary, H. (2019), An assessment of mortgage loan default propensity in Ghana, *Journal of Engineering, Design and Technology*, 17(5): 985-1017.
20. Owusu-Manu, D., Kukah, A.S.K., Edwards, D.J., Parn, E.A., Hatem, E. and Aigbavboa, C. (2019), An Assessment of the Level of Emotional Intelligence Attributes of Undergraduate Built Environment Students in Developing Countries, *Industry and Higher Education*, 33(2): 108-115

21. Williams, J., Fugar, F. and Adinyira, E. (2019), Assessment of health and safety culture maturity in the construction industry in developing economies: A case of Ghanaian construction industry, *Journal of Engineering, Design and Technology*, 18(4): 865-881.
22. Williams J., Fugar F. and Adinyira E. (2019), Health and Safety Improvement Amongst Ghanaian Communities as a Corporate Social Responsibility of Construction Companies. *American Journal of Construction and Building Materials*. 3(2): 23-29.
23. Adabre, M. A., Chan, A. P. C., Darko, A., Osei-Kyei, R., Abidoye, R., Adjei-Kumi T., (2020). Critical barriers to sustainability attainment in affordable housing: International construction professionals' perspective, *Journal of Cleaner Production*, Vol. 253.
24. Tetteh, M. O., Chan, A. P. C., and Nani, G., (2019). Combining process analysis method and four-pronged approach to integrate corporate sustainability metrics for assessing international construction joint ventures performance, *Journal of Cleaner Production*, Vol. 237, <https://doi.org/10.1016/j.jclepro.2019.117781>
25. Addy, M. N., Adinyira, E., Danku, J. C. and Dadzoe, F. (2020). Impediments to the Development of the Green Building Market in Sub-Saharan Africa: The Case of Ghana. *Smart and Sustainable Built Environment*, <https://doi.org/10.1108/SASBE-12-2019-0170>.
26. Adinyira, E., Agyekum, K., Baiden, B.K., Ebohon, J.O. and Apretwum, G. (2020). Regeneration of Sub-Saharan Africa's Open Market Places: A Case for Guileless Stakeholder Participation, *Construction Economics and Building*, 20(2): 165-180.
27. Adinyira, E., Manu, P., Agyekum, K., Mahamadu, A-M. and Olomiaye, P. (2020). Violent behaviour on construction sites: structural equation modelling of its impact on unsafe behaviour using partial least squares, *Engineering, Construction and Architectural Management*, 27(10): 3363 – 3393.
28. Adinyira, E., Agyekum, K., Danku, J.C., Addison, P. and Kukah, A. (2020). Influence of subcontractor risk management on quality performance of building construction projects in Ghana. *Journal of Construction in Developing Countries* (Forthcoming). Available at: web.usm.my/jcdc/earlyView/JCDC%20Early%20View_EmmanuelAdinyira.pdf.
29. Agyekum, K., Kissi, E. and Danku, C.J. (2020). Professionals' views of vernacular building materials and techniques for green building delivery in Ghana, *Scientific African*, 8(2020), pp. e00424.

30. Agyekum, K., Adinyira, E. and Ampratwum, G. (2020). Factors driving the adoption of green certification of buildings in Ghana, *Smart and Sustainable Built Environment*, DOI: 10.1108/SASBE-02-2019-0017.
31. Agyekum, K., Kissi, E., Danku, J.C., Ampratwum, G. and Amegatsey, G. (2020). Factors driving the career progression of construction project managers, *Journal of Engineering, Design and Technology*, 18(6): 1773 – 1791.
32. Ankomah, E.N., Ayarkwa, J. and Agyekum, K. (2020). Status of lean construction implementation among small and medium building contractors (SMBCs) in Ghana, *Journal of Engineering, Design and Technology*, 18(6): 1691 – 1709.
33. Asamoah, R.O., Baiden, B.K., Nani, G. and Kissi, E. (2020). Identifying intangible resources to enhance profitability strategies of Small-Medium Scale Construction Firms (SMSCFs) in developing countries, *International Journal of Construction Management*, DOI: 10.1080/15623599.2020.1774835.
34. Ayarkwa, J., Agyekum, K., Opoku, D-J., Amponsah, A.A. (2020). Barriers to the implementation of environmentally sustainable procurement in public universities, *International Journal of Procurement Management*, 13(1): 24-41.
35. Chan, A. P. C., Tetteh M. O., and Nani G., (2020) Drivers for international construction joint ventures adoption: a systematic literature review, *International Journal of Construction Management*, DOI: 10.1080/15623599.2020.1734417.
36. Danku, J.C., Adjei-Kumi, T., Baiden, B.K. and Agyekum, K. (2020) An Exploratory Study into Social Cost Considerations in Ghanaian Construction Industry. *Journal of Building Construction and Planning Research*, 8(1):14-29.
37. Danku, J.C., Agyekum, K. and Asare, F.T. (2020). Professionals' perceptions on construction progress measurement methods used in Ghana. *World Journal of Engineering and Technology*, 8: 145-158.
38. Danku, J.C., Agyekum, K. and Asare, F.T. (2020). Critical barriers to traditional project progress measurement: Perspectives of Ghanaian construction professionals, *Journal of Building Construction and Planning Research*, 8: 119-137.
39. Danku, J. C. and Antwi, P. A. (2020). Perceived Benefits of Using Value Engineering on Road Projects in Ghana. *World Journal of Engineering and Technology*, 8: 217-236. DOI: 10.4236/wjet.2020.82018.

40. Dansoh, A., Frimpong, S., Ampratwum, G., Oppong, G. D., and Osei-Kyei, R., (2020) Exploring the role of traditional authorities in managing the public as stakeholders on PPP projects: a case study, *International Journal of Construction Management*, 20(6): 628-641.
41. Dansoh, A., Frimpong, S. and Oppong, G. D. (2020). Exploring the dimensions of traditional authority influencing stakeholder management at the pre-construction stage of infrastructure projects, *Construction Management and Economics*, 38(2): 189-206.
42. Darko, A., Chan, A. P. C., Owusu-Manu, D. G., Gou, Z, and Man, J. C. F. (2020), Adoption of green building technologies in Ghana. *Green building development in the third world*, *Green Energy and Technology*, pp. 217-23 Springer International Publishing.
43. Duodu, B. and Rowlinson, S., (2020). The effect of social capital on exploratory and exploitative innovation. *European Journal of Innovation Management*, 23(4): 649–674.
44. Ghansah, F.A., Owusu-Manu, D., and Ayarkwa, J. (2020), Project Management Processes in the Adoption of Smart Building Technologies: A Systematic Review of Constraints, *Smart and Sustainable Built Environment*, DOI 10.1108/SASBE-12-2019-0161.
45. Kissi, E., Ahadzie, D. K., Debrah, C., & Adjei-Kumi, T. (2020). Underlying strategies for improving entrepreneurial skills development of technical and vocational students in developing countries: using Ghana as a case study, *Education+ Training*, 62(5): 599-614.
46. Kissi E., Asare S. S., Daniel Y. A., Oteng D., and Debrah C. (2020). Identification of factors influencing the pricing of sustainable construction materials in developing countries: views of Ghanaian quantity surveyors, *International Journal of Construction Management*, DOI: 10.10 80/ 1562 3 5 99.2020.1768462.
47. Kissi, E., Adjei-Kumi, T., Twum-Ampofo, S., & Debrah, C. (2020). Identifying the latent shortcomings in achieving value for money within the Ghanaian construction industry. *Journal of Public Procurement*. 20(3): 313-330.
48. Mensah-Sackey, D., Owusu-Manu, D., Asiedu, O.A., and Jehuri, A.B., D.J, (2020), Analysis of Latent Impeding Factors to Solar Photovoltaic Investments in Ghana. *International Journal of Energy Sector Management*, 14(4): 669-682.
49. Nyagormey, J.J., Baiden, B.K., Nani, G. and Adinyira, E. (2020). Review on Criteria for Evaluating Unsolicited Public–Private Partnership PPP Proposals from 2004 to 2018. *International Journal of Construction Management*.

50. Ottou, J., Baiden, B.K. and Nani, G. (2020). Six Sigma Project Management Application in Public Procurement, *International Journal of Quality & Reliability Management*, DOI: 10.1108/IJQRM-04-2019-0111.
51. Owusu-Manu, D., Ghansah, F.A., Darko, A., and Asiedu, O.A. (2020), Service Quality of Insurance in Complex Project Deals in the Construction Industry in Ghana, *International Journal of Building Pathology and Adaptation*, DOI 10.1108/IJBPA-09-2019-0078
52. Owusu-Manu, D., Ghansah, F.A., Darko, A., Asiedu, O.A, and Edwards. D.J (2020), Exploring Insurable and Non-Insurable Risk on Complex Project Deals in the Construction Industry in Ghana, *Journal of Engineering Design and Technology*, 18(6): 1971-1995.
53. Sumanarathna, N., Duodu, B. and Rowlinson, S., (2020). Social capital, exploratory learning, and exploitative learning in project-based firms: the mediating effect of collaborative environment. *The Learning Organization*, 27(4): 351-364
54. Troiani, E., Mahamadu, A. M., Manu, P., Kissi, E., Aigbavboa, C., and Oti, A. (2020). Macro-maturity factors and their influence on micro-level BIM implementation within design firms in Italy. *Architectural Engineering and Design Management*, 16(3): 209-226.
55. Yu, A. T. W., Yevu, S. K., and Nani, G. (2020). Towards an integration framework for promoting electronic procurement and sustainable procurement in the construction industry: A systematic literature review, *Journal of Cleaner Production*, Vol. 250, <https://doi.org/10.1016/j.jclepro.2019.119493>.

CONFERENCE PAPERS/PROCEEDINGS

1. Adesi, M., Murphy, R. and Kehily, D. (2019) The Strategy Process of Irish Quantity Surveying Firms Operating Within a Turbulent Business Environment. In: Gorse, C and Neilson, C J (Eds) *Proceedings of the 35th Annual ARCOM Conference, 2-4 September 2019, Leeds, UK, Association of Researchers in Construction Management*, 791-799.
2. Adinyira, E., Ghansah, F. A. and Danku, J. C. (2019) "Assessing the Challenges with Safety Monitoring Practices of Operatives on Construction Site in Ghana" In *Proceedings of the 24th International Symposium on Advancement of Construction Management and Real Estate (CRIOCM) Chongqing November 29 – December 2, 2019*. Pp185.

3. Agyekum, B., Kissi, E., Yamoah Agyemang, D., & Badu, E. (2019) Strategies for the Utilization of Non-Traditional Cost Estimation Models in the Construction Industry of Ghana. 13th Built Environment Conference Durban, South Africa, September 2-3,278-286.
4. Antwi-Afari, M.F. Li, H., Lou, E.X., Edwards, D.J. Owusu-Manu, D., Darko, A. (2019), Overexertion-Related Construction Workers' Activity Recognition and Ergonomic Risk Assessment Based on Wearable Insole Pressure System. In Laryea, et al. (Eds) Proceedings of the 10th WABER Conference, Ghana Academy of Arts and Sciences, Accra 5th – 7th August 2019.
5. Manjula, N.H.C., Duodu, B., and Rowlinson, S. (2019). An investigation of unsafe behaviours among Sri Lankan construction workers. In: Proceedings of 23rd CIB World Building Congress.
6. Duodu, B., and Steve Rowlinson, S., (2019). External knowledge sources as antecedents of exploratory and exploitative innovation in construction contractor firms. In: Proceedings of Engineering Project Organization Conference 2019 – A Challenge Summit June 25-27 – Vail, CO, USA.
7. Kissi, E., Amoah, P., Ahadzie, K., D., and Debrah C., (2019) Critical Risk Factors in Pricing of Construction Resources of SME Construction Firms in Ghana 43th Australasian Universities Building Education Association Conference of Radical Innovation in the Built Environment, Australia, November,6-9 ,341-350.
8. Osei-Kyei, R. Chan, A.P.C, Owusu–Manu, D., Adabre-Atafo, M., & Ameyaw, E.E (2019), “Public-Private Partnership for Affordable Housing delivery in Ghana: Experience of the Ghana National Housing Project and Policy Implications” Public Organization Review Proceedings of the 43rd Australasian Universities Building Education Association (AUBEA) Conference, 6 – 8 November 2019, Noosa QLD, Australia, pp.26-39
9. Owusu-Manu, D., Babon-Ayeng, P., Ghansah, F.A., Debrah, C., Boateng, F. and Edwards, D.J., 2019. Analysing the Relationship Between Construction Employees 'mindset Behaviour and Project Performance. Proceedings of the 43rd Australasian Universities Building Education Association (AUBEA) Conference, 6 – 8 November 2019, Noosa QLD, Australia, pp.133-143.
10. Owusu-Manu, D., Kwakwa C. and Antwi-Afari, P. (2019), Determinants of infrastructure quality in Ghana. The 8th World Construction Symposium 2019, Colombo, Sri Lanka, July 12 – 14, 2019.
11. Owusu-Manu D., Debrah C., Antwi-Afari P., Edwards D.J. (2020). Barriers of Project Bond Initiatives in Infrastructure Financing in Ghana. In: Aigbavboa C., Thwala W. (eds) The Construction Industry in the

DEPARTMENT OF COMMUNICATION DESIGN

ACADEMIC STAFF

Associate Professor:

D. A. Ohene-Adu* MA, PG. Dip, BA

Senior Lecturers:

M. Adi-Dako (Rev) MA, BA

E. Appiah DTech (South Africa), MA, BA (Kumasi)

J. W. Awuku-Appiah* MFA (US); BA (Kumasi), BFA

E. F. Eshun PhD, MA, BA (Kumasi)

K. N. Amoako-Agyeman PhD, Med (UK), BA (Kumasi)

A. K. Badu MBA, BA (Kumasi)

R. Adam MA, BA (Kumasi)

Lecturers:

I. Moro PhD, MA, BA (Kumasi)

G. Kushiator PhD, MFA, BA, Dip

R. D. Debrah MS, BFA, Cert

B. A. Ayim MAPPE, HNNDP

G. B. Assibey DTech. (South Africa), MA, BFA (Kumasi)

Assistant Lecturer:

B. Prempeh MPhil, BFA (Kumasi)

**Post-Retirement contract*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Anani, P. W & Appiah, E. (2019). Impact of Driver Distraction and Its Effect. *International Research Journal of Public Health*, 3(37): 1-14.
2. Opoku, N., Appiah, E & deGraft-Yankson, P (2020). Competencies of the present day Graphic Designer: A document analysis of online job ads in Ghana. *Journal of Graphic Engineering and Design*,11 (2):5-13.
3. Appiah, E. & Danquah, J. A (2020). Designing a Culturally Relevant Television Brand Identity Using Culture-Orientated Design Model. *International Journal of Art, Culture and Design Technologies*, 9(1).
4. Appiah, E., Gyamfi Patrick & Debrah, D. R (2020). Integrated model for Co-designing and co-creation for Sustainable Sanitation project. *Journal of Art and Design Studies*,9(1) doi: 10.7176/ADS.
5. Vanderpuye, P., Appiah, E. & Boamah, A. (2020). The Use of Thumbnail Sketches in Visual Arts Education: Exploring High School Students' Perspective in the Design Process. *Journal of Arts and Design Studies*, 88: 14-21.
6. Assibey, G.B., Atakro, C., & Adade-Yeboah, A. (2019). An Assessment of Ghana's Twi Language Medical Advertisements. *Covenant Journal of Communication*, 6(1).
7. Assibey G.B., Abaitey A., K. & Chisin V. A., (2019). Exploring Community Security Interventions Using Design Thinking Approach. *Journal of Applied Security Research*.
8. Assibey G.B, Cronje J. C and Chisin V. A (2019). Challenges to sustainability in graphic design practices of developing nation. *Journal of Design and Culture*. DOI: 10.1080/17547075. 2020.1694263.
9. Amoako-Agyeman K. N., Adinkrah, L. K. K., and Eshun, E. F. (2019). The Impact of Corporate Visibility on Image and Credibility of Radio Stations in the Kumasi Metropolis. *Journal of Business Management and Economic Research (JOBMER)*, 3(7).
10. Koranteng, J., Ismaila, M., Adom, D. & Tetteh, M. (2020). Constructivist Teaching Strategies for Graphic Design Education in Selected Senior High Schools in Ghana. *Journal of African Art Education*, 1(2), 21-43.
11. Howard, E.K., Asinyo, B.K., Kushiator, G., Ayesu-Marfo, S. and Twumasi-Appiah, S., (2019). Customer Loyalty through Branding and Packaging of Printed Fabrics of Major Textile Factories in Ghana. *Journal of Fashion and Textile Review*, 1(1), 21-26.

12. Kushiator, G., Howard, E.K., Rahman, A., Quaye, A. and Dompok, H.O. (2019); Integration of Media Technology: Painting, Photography and Digital Art as Cultural Expressions in Ghana. *ADRRJ Journal (Multidisciplinary)*, 28(6):1-20.
13. Rahman, A., Afrifah, K.A. and DeCardi-Nelson, A., (2019). Packaging Design and Environmental Sustainability: Evaluating the Plastic Carry Bag for Effective Design.
14. Kushiator, G., Howard, E.K., Rahman, A., Quaye, A. and Dompok, H.O., (2019). Integration of Media Technology: Painting, Photography and Digital Art as Cultural Expressions in Ghana. *ADRRJ Journal (Multidisciplinary)*, 28(6), 1-20.
15. Ebenezer, O. and Adam, R., (2020). The Influence of Selected Factors on Adolescents' choice Of Graphics as a Career. *Journal DOI*, 6(11).
16. Kushiator, G., Rahman, A. and Antwi, E. (2020). The Influence of ICT on Creativity: Impact, Attitude and Perception. *ADRRJ Journal of Engineering and Technology*, 4(8), 16-37.
17. Kushiator, G., Rahman, A. and Ofori, D.H., (2020). The Influence of Western Culture on Traditional Art Forms and Cultural Practices: 'Akuaba' Doll among Akan Women in Africa. *ADRRJ Journal of Arts and Social Sciences*, 17(6), 59-71.

CONFERENCE PROCEEDINGS

1. Gyamfi, P., Appiah, E. & Debrah, R. D., (2019). Un-Nuances of Co-designing and Co-creating: A Design Thinking Approach within a "Zongo" Community in Ghana. *Proceedings of the 3rd LeNS World Distributed Conference. Milano-Italy. 3th-5thApril, 2019,*
2. Assibey G. B, Chisin V. A and Cronje J. C (2019). Embracing 'cosmopolitan localism' for sustainable graphic design practices in Ghana. *Proceedings of the Design Education Forum of South Africa 8th International Design Education Conference 2019 – Designed Futures. Cape Town – South Africa. 9 – 11th September 2019.*

BOOK CHAPTERS

1. Appiah, E. & Debrah, R. D. (2019). Design for Social Innovation; 5-Star Street project. *Design for Social Innovation and Cities; Manzini, E & Cipolla, C (Eds); First Edition, Design Network Association*

2. Appiah, E. & Debrah, R. D., (2020). Project ZONGO: Caravan of Hope; Design for Social Innovation and Entrepreneurship (DxSIE); Manzini, E & Cipolla, C (Eds); First Edition, Design Network Association.

BOOK

1. Rahman A. (2019). Introductory Handbook on Packaging Design Graphics. Vingraf Media Systems: ISBN: 978-9988-54-120-0 1, 80.

DEPARTMENT OF PLANNING

ACADEMIC STAFF

Professors:

K. K Adarkwa*	BSc (Kumasi), MSc (Columbia). FGA, FGIP, FCILT
I. Braimah*	BSc, MSc (Kumasi), PhD (Germany), FGIP
D. K. B. Inkoom	BSc, MSc (Kumasi), PG. Dip., Dr. rer.pol. (Germany), Cert. (Norway), Cert. (Finland), Adv. Cert. (US), FGIP.

Associate Professor:

M. Poku-Boansi	BSc, PhD (Kumasi) Cert., Cert. (US), FGIP
K. D. Kessey*	BA, MSc (Kumasi), MPhil, PhD (UK), Dip. (Cape Coast)

Senior Lecturers:

D. Adei	BA, MSc, PhD (Kumasi), Cert, ICOH, MACCE, MCBRN (US)
R. Adamtey	BSc, MPhil, PhD (UK), MGIP
P. A. Anokye	BSc (Kumasi), MPhil (UK); PG Dip. (Netherlands), MGIP
E. Oduro-Ofori	BSc, MSc (Kumasi), PhD (Germany), MGIP, CIHCM
C. Amoako	BSc, MPhil (Kumasi), PhD, (Australia), Cert., MGIP

J. K. Owusu-Ansah	BSc (Kumasi), MURP (US), PhD (Australia), PG. Dip. (Netherlands),
C. Y. Oduro	BSc (Kumasi), MSc (Kumasi), PhD (US), MGIP, MPMI, MSIADP
T. Y. Baah-Enumh	BEd (Cape Coast), MSc (Kumasi), Dip. (Cape Coast), Cert., PhD (Kumasi), MGIP
G. Adom-Asamoah	BSc (Kumasi), MSc (UK), PG. Dip. (Netherlands), PhD (Kumasi), MGIP
C. Peprah	BSc, MSc (Kumasi), PG. Dip (Israel), MA, PhD (Japan), MGIP
K. A. Ocloo	BA, MSc (Kumasi), PhD (Germany), MGIP
O. Amponsah	BSc, MSc (Kumasi), PG. Dip. (Netherlands), PhD (Kumasi), MGIP

Lecturers:

A. B. K. Amaka-Otchere	BSc, MSc (Kumasi), Dr. rer-pol (Germany)
G. Camynta-Baezie	BSc (Kumasi), MSc, PhD (UK), CMCILT, MCIHT, MITE
B. Doe	BSc, MPhil (Kumasi), Cert. (Accra), Cert. (Legon), Cert. (Accra), PhD (Germany)
S. A. Takyi	BSc, MPL, PhD (Canada), MGIP.
A. Adu-Gyamfi	BSc (Kumasi), MSc (China), PhD (Australia), MGIP
S. K. Dankyi	BSc, MSc (Kumasi), PhD (Germany)

Part-time Lecturer:

O. Adade#	Dip, BSc, MSc (Kumasi), ICHPB
-----------	-------------------------------

**On post-retirement contract*

Part Time

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Adom-Asamoah, G., Amoako, C., & Adarkwa, K. K. (2019). Gender Disparities in Rural Accessibility and Mobility in Ghana, *Case Studies on Transport Policy*, 8 (1), 49-58.

2. Yeboah, A. S., Baah-Enumh, T. Y., & Okumah, M. (2020). Understanding the economic, socio-cultural, and environmental impacts of resettlement projects. *African Geographical Review*, 1-22.
3. Acquah, I., Forson, J. A., & Baah-Enumh, T. (2020). Effect of changing urban farming landscape on financing livelihoods and food security of urban farmers' households in Ghana. *ILIRIA International Review*, 10(1), 260-300.
4. Baah-Enumh, T. Y., Yeboah, A. S., & Akularemi, A. E. J. (2019). Contextualizing the effects of stone quarrying: insights from the Wenchi municipality in Ghana. *GeoJournal*, 1-17.
5. Debrah, C., Owusu-Manu, D. G., Kissi, E., Oduro-Ofori, E., & Edwards, D. J. (2020). Barriers to green cities development in developing countries: evidence from Ghana. *Smart and Sustainable Built Environment*.
6. Owusu-Manu, D. G., Debrah, C., Oduro-Ofori, E., Edwards, D. J., & Antwi-Afari, P. (2020). Attributable indicators for measuring the level of greenness of cities in developing countries: lessons from Ghana. *Journal of Engineering, Design and Technology*.
7. Appiah, E., Oduro-Ofori, E., & Attom, L. E. (2020). Decision-Making Difficulties of Senior High School Referred Graduates of Cape Coast Metropolis. *Decision-Making*, 10(22).
8. Adamtey, R., & Kovor, F. (2020). Deepening decentralization through collaboration between District Assemblies and Faith-Based Organizations: Lessons from Keta and South Tongu Districts in Ghana. *Journal of Science and Technology (Ghana)*, 38(1, 2 &3), 110-120.
9. Adamtey, R., Mensah, J. V., & Kovor, F. (2020). The Role of Faith-Based Organisations in Filling the Resource Gaps of Local Governments in Ghana: The Case of Keta Municipal Assembly. *International Journal of Asian Social Science*, 10(9), 548-559.
10. Adu-Gyamfi, A., Poku-Boansi, M., & Cobbinah, P. B. (2020). Homeownership aspirations: Drawing on the experiences of renters and landlords in a deregulated private rental sector. *International Journal of Housing Policy*, 20(3), 417-446.
11. Poku-Boansi, M., Amoako, C., Owusu-Ansah, J. K., & Cobbinah, P. B. (2020). The geography of urban poverty in Kumasi, Ghana. *Habitat International*, 103, 102220.
12. Poku-Boansi, M. (2020). Path dependency in transport: A historical analysis of transport service delivery in Ghana. *Case Studies on Transport Policy*, 8(4), 1137-1147

13. Adu-Gyamfi, A., Cobbinah, P. B., Gaisie, E., & Kpodo, D. D. (2020, September). Accessing Private Rental Housing in the Absence of Housing Information in Ghana. In *Urban Forum* (pp. 1-19). Springer Netherlands
14. Amoako, C., & Frimpong Boamah, E. (2020). Becoming Vulnerable to Flooding: An Urban Assemblage View of Flooding in an African City. *Planning Theory & Practice*, 21(3), 371-391.
15. Boamah, E. F., Amoako, C., & Asenso, B. K. (2020). Spaces of market politics: Retailscapes and modernist planning imaginaries in African cities. *Applied Geography*, 123, 102265.
16. Poku-Boansi, M., Amoako, C., Owusu-Ansah, J. K., & Cobbinah, P. B. (2020). What the state does but fails: Exploring smart options for urban flood risk management in informal Accra, Ghana. *City and Environment Interactions*, 5, 100038.
17. Poku-Boansi, M., Amoako, C., Owusu-Ansah, J.K., & Cobbinah, P.B. (2020). Climate variability and communities' vulnerability along Ghana's coastline, *Ghana Social Science Journal*, 17(1): 108-130.
18. Doe, B., & Aboagye, P. D. (2020). The place of subsidy: affordable sanitation service delivery in slums of Kumasi, Ghana. *GeoJournal*, 1-23.
19. Berendes, D. M., De Mondesert, L., Kirby, A. E., Yakubu, H., Adomako, L., Michiel, J., ... & Moe, C. L. (2020). Variation in *E. coli* concentrations in open drains across neighborhoods in Accra, Ghana: The influence of onsite sanitation coverage and interconnectedness of urban environments. *International journal of hygiene and environmental health*, 224, 113433
20. Wireko-Gyebi, R. S., Asibey, M. O., Amponsah, O., King, R. S., Braimah, I., Darko, G., & Lykke, A. M. (2020). Perception of Small-Scale Miners on Interventions to Eradicate Illegal Small-Scale Mining in Ghana. *SAGE Open*, 10(4), 2158244020963668.
21. Tetteh, N., & Amponsah, O. (2020). Sustainable Adoption of Smart Homes from the Sub-Saharan African Perspective. *Sustainable Cities and Society*, 102434.
22. Okumah, M., Yeboah, A. S., & Amponsah, O. (2020). Stakeholders' willingness and motivations to support sustainable water resources management: Insights from a Ghanaian study. *Conservation Science and Practice*, 2(3), e170.
23. Yeboah, A. S., Takyi, S. A., Amponsah, O., & Anafo, D. (2020). Assessing the practicality of the COVID-19 social distancing guidelines to the urban

poor in the Ghanaian context. *Social Sciences & Humanities Open*, 2(1), 100087.

24. Mensah, H., Ahadzie, D. K., Takyi, S. A., & Amponsah, O. (2020). Climate change resilience: Lessons from local climate-smart agricultural practices in Ghana. *Energy, Ecology and Environment*, 1-14.
25. Narh, S. N., Takyi, S. A., Asibey, M. O., & Amponsah, O. (2020). Garden city without parks: an assessment of the availability and conditions of parks in Kumasi. *Urban Forestry & Urban Greening*, 55, 126819.
26. Takyi, S. A., Amponsah, O., Yeboah, A. S., & Mantey, E. (2020). Locational analysis of slums and the effects of slum dweller's activities on the social, economic and ecological facets of the city: insights from Kumasi in Ghana. *GeoJournal*, 1-15.
27. Anaafo, D., & Takyi, S.A (2020). Spatial planning in the digital age: the role of emerging technologies in democratising participation in spatial planning in Ghana. *International Planning Studies*, 1-13.

CONFERENCE PAPER/PROCEEDING

1. Amoako, C. (2020). Restricted mobility, use of public spaces and planning responses to COVID-19 in Kumasi, Ghana, *SPRING Cross Regional Dialogue on the theme: Responding to the Global Pandemic – Towards a Sustainable and Resilient Future Via Zoom*, 23-25 October, 2020.

DEPARTMENT OF TEACHER EDUCATION

ACADEMIC STAFF

Senior Lecturer

W. Abroampa	PhD (Nigeria), MPhil (Cape Coast)
R. Essel	PhD (Kumasi), MA (UK), PG.Dip (Netherlands), B.Ed (Cape Coast), Dip. (Winneba)

Lecturer

S. Antwi	PhD, M.Ed (US), B.Ed (Cape Coast)
P. Swanzy	PostDoc (South Africa), PhD (Australia)
F. K. Awuah	PhD, Cert (South Africa), MSc, BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Thompson, M., & Abroampa, W. K. (2019). A Multi-Case Study of Instructional Decision-Making Processes of Teachers in Kindergarten Classrooms in the Cape Coast Metropolis. *Research Journal of Education*, 5(6), 91-98
2. Mumuni, T. (2019). Early childhood pedagogy in a Ghanaian socio-cultural medley: A case study of two Kindergarten classrooms. *Revista Brasileira de Gestao Ambiental e Sustentabilidade*, 6(12), 3-19.
3. Abroampa, W. K. (2018). Achieving Kindergarten Curriculum goals through assessment practices: Insights from Kindergarten teachers within the Central Region, Ghana.
4. Abroampa, W. K. (2018). Assessment of Kindergarten Teachers. Use of Learning Activities and Instructional Resources in the Implementation of the Curriculum in Central Region, Ghana Abstract, 7(6), 67-73.
5. Langa, P. V., Swanzy, P., & Uetela, P. (2018). Advancing Collaboration between African Diaspora and Africa-Based Scholars. *Journal of Higher Education in Africa/Revue de l'enseignement supérieur en Afrique*, 16(1/2), 135-155.
6. Ansah, F., & Swanzy, P. (2019). Affiliation policy rhetoric and reality in the Ghanaian higher education context. *Journal of Higher Education Policy and Management*, 41(2), 204-218.

7. Langa, P. V., Swanzy, P., & Law, D. (2019). Brexit: some implications for African higher Education. *Perspectives: Policy and Practice in Higher Education*, 23(1), 28-32.
8. Swanzy, P., Langa, P. V., & Ansah, F. (2018). Quality assurance in Ghana: Accomplishments and challenges. *International Higher Education*, 94, 28-30.
9. Essel, R. Essel, H.B., Osei-Poku P, and Saah, A. A. (2020). Evaluation of Distance Education and widening access to higher education in Kwame Nkrumah University of Science and Technology, *International Journal of Research and Innovation in Science*. 250-256.
10. Antwi, S. B. (2020). ANALYSIS OF ENROLLMENT, RETENTION, COMPLETION AND ATTRITION RATES OF REGULAR AND DISTANCE LEARNING STUDENTS IN THE MASTERS EDUCATION PROGRAMMES AT KNUST (Doctoral dissertation, School of Graduate Studies, Kwame Nkrumah University of Science and Technology).
11. Essel, R., Owusu-Boateng, W., & Essel, H. B. (2020). Challenges and Effects of Providing Feedback to Improve Learning in Distance Education: A Case Study of Kwame Nkrumah University of Science and Technology-Kumasi–Ghana. *Library Philosophy and Practice*, 1-16.
12. Koomson, E., Osei, M., & Essel, R. (2020). Beyond words: art therapy for self-expression with female inmates. *Nairobi Journal of Humanities and Social Sciences*, 4(3), 28-46.

BOOK CHAPTERS

1. Swanzy, P & Potts, A. (2019). Quality assurance in higher education in developing countries: Evidence from Ghana. In T. O’Donoghue & S. Clarke (Eds), *New Directions in Research on Education: Reconstruction in Challenging Circumstances* (pp. 77-100). Ontario: Queens University.
2. Swanzy, P., Langa, P.V., & Ansah, F. (2019). Ensuring equity and inclusion in higher education provision: Ghana’s Approach. In J. Hoffman & P. Blessinger (Eds), *Strategies for Facilitating Inclusive Campuses in Higher Education: International Perspectives on Equity and Inclusion* (pp. 273-251). Bingley, UK: Emerald

DEPARTMENT OF PUBLISHING STUDIES

ACADEMIC STAFF

Professor:

K. Opoku-Amankwa# PhD (UK), MA (Legon), BA (Kumasi), Grad. Dip (UK)

Senior Lecturers:

R. A. Glover Esq. MFA, LLB (Kumasi), BL (Accra), BA (Kumasi) Cert. (Cape Coast)

M. A. Brew-Hammond * MA (Kumasi), BA, Dip Ed (Cape Coast), Cert. (UK), Cert. (Accra)

R. Nyadu-Addo MSB, DSH (Germany), BA (Kumasi)

F. K. N. Nunoo MA (Kumasi), MA (Kumasi), BA (Kumasi)

Lecturers:

L. A. Ry-Kottoh PhD (Scotland), MBA (UK), BA (Kumasi)

M. A. Essuman PhD, BA (Kumasi), Cert. (Cape Coast)

S. S. Esseh PhD, MPub (Canada), MA, BA (Kumasi)

E. Anane-Antwi Cand Arch, Cert. (Denmark), PhD, BA (Kumasi),

A. H. Agbo MA, BA (Kumasi)

I. K. Appiah MA (Kumasi), BA (Kumasi) PG. Dip, PG. Dip (Kumasi)

Assistant Lecturers:

D. P. Mensah MPhil, BA (Kumasi)

E. A. Boahene ** MPhil, MA, BA (Kumasi)

I. N. Nunoo ** MA, BA (Kumasi)

* *Post Retirement Contract*

Sabbatical Leave

** *Part-Time*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Sosu, S. A., Kpodo, C. S., & Glover, R. A. (2020). Imaging: The 'constructor' of modern, post-modern and contemporary life.
2. Adu Boahen, E., Glover, K. A., Agyanim Boateng, K., Nimo Nunoo, I.E.O.,(2020) Plagiarism in Higher Academic Institutions, a Blight on intellectual Integrity; An Interventionist Approach. JAAC Journal of African of Arts and Culture, University of Education, Winneba, jaac.journal@gmail.com
3. Adom, Dickson; Nyadu-Addo, Ralph; Kquofi, Steve (2020): "Capacity Building in Cultural and Traditional Craft Enterprises for Ecotourism Development" Submitted to Journal of Urban Culture Research in December 2020

CONFERENCE PAPERS/PROCEEDINGS

1. Nyadu-Addo, Ralph (2020). Guest Speaker at the African German Entrepreneurship Academy (AGEA) "Ghana Policy Day Conference" on 4th November, 2020 in Accra. This involves selected ministries and Vice Chancellors from 17 Higher Education Institutions (HEIs)
2. Nyadu-Addo, Ralph (2020). 10th December 2020. Organised a workshop for management, Directors and Deans of Accra Technical University on the theme "Alternative Funding for Higher Educational Institutions"
3. Nyadu-Addo, Ralph (2020). 6th January, 2021. Workshop for President Kufuor Foundation Scholars on the theme "Innovation and Creativity, A tool for success". Venue: Ejura-Ashanti

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

BUREAU OF INTEGRATED RURAL DEVELOPMENT (BIRD)

ACADEMIC STAFF

Associate Professors:

#P. Sarfo-Mensah	PhD (UK), MPhil (Kumasi), BSc, PG.Cert IDS (UK)
E. F. Antoh	PhD (Cape Coast), MA (UK), MA (UK), BA (Legon), Cert., (UK), Cert. IRNM, (Netherlands)
#S.E Edusah	PhD (UK), MA, BA, DAE (Kumasi), Cert., (UK), Dip (PCBRD) (Netherlands)

Senior Research Fellows:

E. Owusu-Addo	PhD (Australia), MSc (UK), BSc (Kumasi), PG Cert. (Australia)
---------------	---

Research Fellows:

M. Addison	
A. A. Arhin	PhD (Kumasi), MSc, BSc, PhD (UK), MSc (UK), BSc (Kumasi)
K. Obeng-Okrah	MPhil, BA, Cert., Cert., (Kumasi)
K. Kumi	PhD (UK), MA (UK), MSc (UK), BA (Kumasi),
T. Yeboah	PhD, MPhil (UK), BA, Cert. (Kumasi)

Assistant Research Fellows:

+ Y. Amo-Sarpong	MSc, MSc, BSc, PG.Dip. (Kumasi), PG.Dip. Cert. Cert. (Netherlands)
------------------	--

Post retirement contract
+ *on secondment*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Adu-Gyamfi, A. and Antoh, E. F. (2019). Complexities in Homeownership: An Exploration of Socio-Religious and Gender Dimensions. In *Urban Forum* (pp. 1-21). Springer Netherlands.
2. Kumi, E. (2019). Advancing the Sustainable Development Goals: An analysis of the potential role of philanthropy in Ghana. *Journal of Asian and African Studies*, 54(7): 1084-1104.
3. Kumi, E. (2019). Aid reduction and NGOs' quest for financial sustainability in Ghana: Can philanthropic institutions serve as alternative funding routes? *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations*, 30(6): 1332-1347.
4. Kumi, E. (2020). From donor darling to beyond aid? Public perceptions of 'Ghana Beyond Aid'. *The Journal of Modern African Studies*, 58(1): 67-90.
5. Kumi, E., Yeboah, T., and Kumi, Y. A. (2020). Private sector participation in advancing the sustainable development goals (SDGs) in Ghana: Experiences from the mining and telecommunications sectors. *The Extractive Industries and Society*. 7(1): 181-190
6. Nti E. K., Wongnaa, C. A., Edusah S. E., Bakang, J. E, Baffour K. (2020). Service constraints and willingness to pay in community-managed water supply services in Ghana. *World Journal of Entrepreneurship management and sustainable Development* SSN: 2042-5961, <https://www.emerald.com/insight/2042-5961.htm>
7. Owusu-Addo E., Renzaho, A. M. N. and Smith, B. J. (2020). Factors affecting health sector involvement in public policies addressing the social determinants of health: a critical realist case study of cash transfers in Ghana. *International Journal of Health Promotion and Education*, 58: 180-198.
8. Owusu-Addo, E., Renzaho, A. M. N. and Smith, B. J. (2019). Cash transfers and the social determinants of health: a conceptual framework. *Health Promotion International*, 34: e106–e118.
9. Owusu-Addo, E., Ofori-Asenso, R., Batchelor, F., Mahtani, K. and Brijnath, B. (2020) Effective implementation approaches for healthy ageing interventions for older people: A rapid review. *Archives of Gerontology and Geriatrics* 92: 104263.
10. Owusu-Addo, E., Renzaho, A. M. N. and Smith, B. J. (2020). Developing a middle-range theory to explain how cash transfers work to tackle the social determinants of health: A realist case study. *World Development*, 130: 104920

11. Senyo, D. and Kumi, E. (2020). Does religious faith matter in development practice? Perspectives from the Savelugu-Nanton District in Northern Ghana. *Forum for Development Studies*, 47(2): 351-38.
12. Suuron, V. M., Mwanri, L., Tsourtos, G. and Owusu-Addo, E. (2020). An exploratory study of the acceptability of indoor residual spraying for malaria control in upper western Ghana. *BMC Public Health*, 20: 465.
13. Yeboah, T. (2020). Future aspirations of rural-urban young migrants in Accra, Ghana. *Children's Geographies*. DOI: 10.1080/14733285.2020.1737643
14. Yeboah, T., Kandilege, L., Bisong, M., Garba, F. and Teye, J. K. (2020). The ECOWAS Free Movement Protocol and Diversity of Experiences of Different Categories of Migrants: A qualitative study. *International Migration* <https://doi.org/10.1111/imig.12766>
15. Yeboah, T., Boamah, E. F. and Appai, T. P. (2019). Broadening the Remittance Debate: Reverse Flows, Reciprocity and Social Relations Between UK-Based Ghanaian Migrants and Families Back Home. *Journal of International Migration and Integration*, 1-22.
16. Yeboah, T., Chigumira, E., Innocensiah, J., Anyidoho, N.A., Manyong, V.M. Flynn J. and Sumberg, J. (2020). Hard work and hazards: young people and agricultural commercialisation in Africa. *Journal of Rural Studies*, 76: 142-151

CONFERENCE PAPERS/PROCEEDINGS

1. Addison, M., Owusu-Addo, E. and Arhin, A. (2020). Ensuring “dignified resolution” for the refugees in Ghana: The role of academia. A paper presented at a DSA’s virtual conference, “DSA2020: New Leadership for Global Challenges,” University of Birmingham, UK, June 16 – 19, 2020.
2. Addison, M., Ohene-Yankyera, K. and Mujawamariya, G. (2020). Assessing the Impact of Selected Agricultural Innovations on Income Distribution in Ghana: Does Gender Matter. A paper presented at 24th ICABR virtual conference, “Accelerating the Bio-economy: Growth Through Applied Research and Policy Change,” Córdoba City, Córdoba Province, Argentina, October 12 – 21, 2020.
3. Arhin, A. (2020). Solving critical development challenges of Ghana: Faith leadership, faith-based giving and domestic resource Mobilization in dwindling aid contexts. A paper presented at a DSA’s virtual conference, “DSA2020: New Leadership for Global Challenges,” University of Birmingham, UK, June 16 – 19, 2020.

OTHERS (TECHNICAL REPORTS)

1. Arhin, A. A., Adam M. S. and Kwarteng T. (2019). Baseline Studies of The Promoting Employment Opportunities for Young People Project. Submitted to the ActionAid Ghana
2. Arhin, A. A. (2020). Exploring Faith-based Giving as an Alternative Funding model for Civil Society Organisations: Experiences, Prospects and Challenges. Submitted to the West Africa Civil Society Institute. Available on: <https://bit.ly/FBgivingGh>
3. Arhin, A. A., Agbenyega, O. and Obeng-Okrah, K. (2020). Combatting Forced Labour in the cocoa, gold and palm oil supply chain in Ghana: Mid-term Evaluation Report. Submitted to Verite, Amherst, USA. Available at: www.verite.org/wp-content/uploads
4. Gilbert, A. S., Owusu-Addo, E., Feldman, P., Mackell, P., Garratt, S. M. and Brijnath B. (2020). Models of Integrated Care, Health and Housing: Technical Report submitted to the Royal Commission into Aged Care Quality and Safety, Melbourne, Australia.
5. Kumi, E., Arhin, A. A. and Essel, V. (2020). Collaborating for Effective Social Activism in West Africa: Experiences, Enabling Factors and Challenges. Submitted to the West Africa Civil Society Institute. Available on: <https://bit.ly/socialactivismwa>
6. Owusu-Addo, E. O'Halloran, K., Brijnath, B. and Dow B. (2020). Primary Prevention Interventions for Elder Abuse: A Systematic Review. Technical Report submitted to Respect Victoria, Melbourne, Australia.
7. Owusu-Addo, E. Arhin, A. A. and Addison, M. (2020). End of Project Evaluation of the Partnership for Accelerated Local Economic Development in Brong Ahafo (BALED) Project. Technical Report submitted to United Purpose, UK & Ghana
8. Owusu-Addo, E., Brijnath, B., and Batchelor, F. (2019). Implementing Healthy Ageing Interventions for Older People: A Rapid Review of Evidence. Technical Report submitted to Department of Health Human Services, Seniors Ageing and Aged Care, Melbourne, Australia.
9. Owusu-Addo, E., Gilbert, A. S., Feldman, P., Mackell, P., Garratt, S. M., and Brijnath B. (2020). Integrated Care Models for Older People: A Review of Reviews. Technical Report submitted to the Royal Commission into Aged Care Quality and Safety, Melbourne, Australia.
10. Yeboah, T. (2019). Building Livelihoods: Young People and Agricultural Commercialisation in Africa: Ghana Country Study, Future Agricultures

Consortium Working Paper 20, Institute of Development Studies, Brighton, UK

11. Yeboah, T. and Egyir, I. (2020). Forms, Prevalence and Drivers of Children's Work and Children's Harmful Work in Shallot Production on the Keta Peninsula, South-Eastern Ghana, ACHA Working Paper 2, Brighton: Action on Children's Harmful Work in African Agriculture, IDS

DEPARTMENT OF AGRICULTURAL ECONOMICS, AGRIBUSINESS AND EXTENSION

ACADEMIC STAFF

Associate Professors:

#S. C. Fialor	PhD (UK), MSc (India), BSc
#J. A. Bakang	PhD (UK), MSc (Nigeria), BSc (Legon)
F. Nimoh	PhD (Kumasi), MPhil (Legon), BSc (Kumasi)
D. Awunyo-Vitor	PhD (Legon), MSc (UK), PCDE (Cape Coast), PGD-MIS (Accra), FCCA (UK), BSc (Kumasi)
V. Owusu	PhD (Netherlands), MPhil (Legon), BSc (Kumasi)

Senior Lecturers:

R. Aidoo	PhD (Kumasi), MSc, BSc (Kumasi)
J. O. Mensah	PhD (Kumasi), MSc (Sweden), BSc (Kumasi)
*K. Ohene-Yankyer	PhD (UK), MPhil (Nigeria), Cert (USA) MIAAE, BSc (Kumasi)
*C. K. Osei	PhD (Nigeria)

Lecturers:

M. T. Asiamah	MPhil (Legon), BSc (Kumasi)
P. Appiah	MPhil (Cape Coast), MAIAEE, BSc (Kumasi)
C. A. Wongnaa	PhD MPhil, BSc (Kumasi), Dip.Ed. (Winnneba)
A. Mensah	PhD (Germany), MSc, BSc (Kumasi)

F. Adams	PhD MSc. BSc, (Kumasi)
K. Amankwah	PhD (Netherlands), BSc. (Kumasi)
S. Etuah	PhD, MPhil. (Kumasi), BSc. (Cape Coast)
G. Boakye Appiah	PhD (Kumasi), MPhil. (Legon), BSc. (Kumasi)

Post Retirement Contract

* *Part-Time*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Bannor, R. K., Kumar, G. A. K., Oppong-Kyeremeh, H., & Wongnaa, C. A. (2020). Adoption and Impact of Modern Rice Varieties on Poverty in Eastern India. *Rice Science*, 27(1): 56-66.
2. Wongnaa, C.A. and Babu S. (2020). Building Resilience to Shocks of Climate Change in Ghana's Cocoa Production and its effect on Productivity and Incomes. *Technology in Society*, 62. <https://doi.org/10.1016/j.techsoc.2020.101288>
3. [Adams, F.](#), [Wongnaa, C.A.](#) and [Coleman, E. \(2020\)](#). Profitability and choice of marketing outlets: evidence from Ghana's tomato production. *Journal of Agribusiness in Developing and Emerging Economies*. Emerald, doi: <https://doi.org/10.1108/JADEE-06-2019-0090>
4. Agyei-Manu, K., Nimoh, F., Owusu-Peprah, M. and Kyeremanteng, G. B. (2020). Cocoa Farmers' Choice of Alternative Livelihood in Mining Communities in Upper Denkyira West District, Ghana. *Journal of Development and Agricultural Economics*, 12(3): 181-197. <https://doi.org/10.5897/JDAE>
5. Adongo, W. A., Osei, C.K. and Wongnaa, C.A. (2019). Contribution of Non-Timber Forest Products to Rural Household Income in Kassena-Nankana West District of Ghana. *Forest Products Journal*, 69(3): 217-227.
6. Bannor, R., Oppong-Kyeremeh, H., Atewene, S. and Wongnaa, C.A. (2019). Influence of non-price incentives on the choice of cocoa licensed buying companies by farmers in the Western North of Ghana. *Journal of Agribusiness in Developing and Emerging Economies*, 9 (4): 402-418.
7. Nti, E. K., Wongnaa, C. A., Edusah, N. S. E. and Bakang, J. E. A. (2019). Assessment of the sustainability of community-managed water supply services in Ghana. *Environment, Development and Sustainability*, 1-24.

8. Adams, F., Amankwah, K., Wongnaa, C. A., Honny, E. P., Peters, D. K., Asamoah, B. J. and Coffie, B. B. (2019). Financial analysis of small-scale mango chips processing in Ghana. *Cogent Food & Agriculture*, 5(1): 1679701.
9. Wongnaa, C. A., Awunyo-Vitor, D., Mensah A. and Adams, F. (2019). Profit Efficiency Among Maize Farmers and Implications for Poverty Alleviation and Food Security in Ghana. *Scientific African*, doi: <https://doi.org/10.1016/j.sciaf.2019.e00206>.
10. [Adams, F., Amankwah, K., Wongnaa, C. A., Honny, E. A., Peters, D. K., Asamoah, B. J. and Coffie, B.B. \(2019\). Financial feasibility analysis of small-scale mango chips processing in Ghana. *Cogent Food and Agriculture*, 5\(5\): 1679701. <http://doi.org/10.1080/233119322019.167970>.](#)
11. [Essel, B. K. C., Adams, F. and Amankwah, K. \(2019\). Effect of entrepreneur, firm and institutional characteristics on small-scale firm performance in Ghana. *Journal of Global Entrepreneurship Research*, 9\(55\). Springer. <https://doi.org/10.1186/s40497-019-0178-y>.](#)

CONFERENCE PROCEEDINGS

1. Wongnaa, C. A., Akuriba, M. A., Amissah, E., Danquah, K. S. and Danso, A. (2019). Profitability and Constraints to Urban Exotic Vegetable Production Systems in the Kumasi metropolis of Ghana: A Recipe for Job Creation. Contributed Paper Presented at the 6th African Conference of Agricultural Economist, Sheraton Abuja Hotel, Abuja, Nigeria, from 23rd – 26th September, 2019.

BOOK CHAPTERS:

1. Wongnaa, C. A., Ansong, M., Obirikorang, K.A, Nkrumah, E. E. and Arhin, A. (2020). Contribution of Non-Timber Forest Products to Rural and Urban Incomes in Ghana: in *Rural-Urban Linkages and Sustainable Development* 1, 101-118

DEPARTMENT OF ANIMAL SCIENCE

ACADEMIC STAFF

Professors:

S.A. Osei	PhD. (USA)
A. Donkoh	PhD (New Zealand)

D.B. Okai	PhD (Canada)
C.C. Atuahene	MSc (Kumasi)
E.L.K. Osafo	PhD (UK)

Associate Professor:

V. Attoh-Kotoku	PhD (Kumasi)
-----------------	--------------

Senior Lecturers:

M. Boateng	PhD (Kumasi)
O. S. Olympio	PhD (Canada)
W.Y. Akwetey	MS (US)
C. Antwi	PhD (Kumasi)
K. Adomako	PhD (Kumasi)
J.A. Hamidu	PhD (Canada)

Lecturers:

A. Simpah-Anim Jr.	PhD (New Zealand)
G. K. Sarfo	PhD (Kumasi)
F. Idan	PhD (US)
Y.O. Frimpong	PhD (Kumasi)

Assistant Research Fellows:

G. Deku	MPhil (Kumasi)
O. Alhassan	MPhil (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Abdul Aziz, Y., Osafo, E. L. K., Apori, S. O. and Osman, A. (2019). Effects of Probiotics (RE3) supplementation on growth performance, diarrhoea incidence and blood parameters of N'dama calves. Ghanaian Journal of Animal Science, 10 (1): 166 – 173.

2. Adomako, K., Akromah, R., Kena, A. W., Opey, A. B., Sovi, S., Hamidu, J. A. and Olympio, O. S. (2019). Molecular characterization of the naked neck trait in chicken. *Ghanaian Journal of Animal Science*, 10 (1): 58-66.
3. Adomako, K., Hamidu, J. A., Peprah, F. F., Turkson, J., Osman, A., Deku, G. and Olympio, O. S. (2019). Effect of different cross combinations on the reproductive and pre-weaning growth performance of two rabbit breeds. *Ghanaian Journal of Animal Science*, 10 (1): 91-97.
4. Agbehadzi, R. K., Hamidu, J. A., Adomako, K. and Enu, R. (2019). Economic contribution of local hatchery performance in the poultry value chain in Ghana. *Poultry Science*, 98: 2399-2404. <http://dx.doi.org/10.3382/ps/pez020>
5. Amoah, K. O., Boateng, M., Okai, D. B., Frimpong, Y. O. and Appiah-Kubi, M. (2019). The effects of diet particle size on growth performance and carcass traits of albino rats. *Ghanaian Journal of Animal Science*, 10(1): 98-103.
6. Ansah, K. O., Antwi, C., Osafo, E. L. K., Enning, S. and Adu-Dapaah, H. (2019). Manure characteristics of small ruminants fed agro by-products in the guinea savannah agro-ecological zone of Ghana. *Ghana Journal of Agricultural Science*, 54(1): 67-76. <https://dx.doi.org/10.4314/gjas.v54i1.7>
7. Atuahene, C. C., Opoku, O., Benante, V., Quaye, B., Adu, M. A., Tamathey, B. B. and Kumah, G. (2019). Effects of *Moringa oleifera* leaf meal (MOLM) on growth performance and carcass characteristics of 4-weeks-old Japanese quails. *Ghanaian Journal of Animal Science*, 10 (1): 115-121.
8. Benante, V., Atuahene, C. C., Adu, M. A., Quaye, B. and Opoku, O. (2019). Assessing the marketing potential of insect protein in the Kumasi metropolis: A case study of the larvae of African palm weevil (*Rhynchophorus phoenicis*). *Ghanaian Journal of Animal Science*, 10 (1): 122-129.
9. Boateng, M., Okai, D. B., Amoah, K. O., Boateng, J. O., Frimpong, Y. O. and Atuahene, P. Y. (2019). Occurrence of blood and meat spots in eggs processed and sold by commercial fried eggs (chibom) sellers at three locations in the Ashanti Region of Ghana. *Ghanaian Journal of Animal Science*, 10(1): 51-57.
10. Boateng, M., Okai, D. B., Frimpong, Y. O., Amoah, K. O., Boateng, E. A. and Atuahene, P. Y. (2019). Dried yam peel meal (DYPM) as a partial replacement for maize in diets of albino rats. *Ghanaian Journal of Animal Science*, 10(1): 104-110.
11. Boateng, M., Frimpong, Y. O., Okai, D. B., Amoah, K. O., Frimpong, B. and Anane, E. (2019). A preliminary study on different types of soybean meal

- on the Ghanaian market. *Ghanaian Journal of Animal Science*, 10(1): 111-116.
12. Damsere, J. D., Boateng, M., Amoah, K. O., Frimpong, Y. O. and Okai, D. B. (2020). The response of pigs to diets containing varying levels of cocoa placenta meal (CPM) supplemented with an exogenous enzyme complex. *African Journal of Agricultural Research*, 15 (4): 538-545.
 13. Dawson-Amoah, H. B., Nwachukwu, M.C., Hamidu, J. A. and Adomako, K. (2019). Potential of two local commercial hybrid chicken strains: (ii) egg quality. *Ghanaian Journal of Animal Science*, 10 (1): 17 – 25.
 14. Donkoh, A., Attoh-Kotoku, V. and Kwarteng-Mainu, E. (2019). Effects of dietary supplementation of a natural fermented product (GT-1000) on the growth performance of broiler chickens under hot humid tropical conditions. *Ghanaian Journal of Animal Science*, 10(1): 26-30.
 15. Farr, H. M., Donkoh, A., Boateng, M. and Mensah, K. B. (2019). Effect of variously-processed rubber seed meals on reproductive performance: The use of Sprague-Dawley laboratory rats as model for pigs. *Journal of Animal Science and Veterinary Medicine*, 4(5): 167-172.
 16. Hamidu, J. A., Jerebi, D.A., Okai, M. A., Wakpal, D. and Konadu, L. A. (2019). Hatchery residue analysis: reflection on layer breeder performance. *Journal of Applied Sciences*, 18: 818-826. DOI: 10.3923/jas.2019.818.826.
 17. Nwachukwu, M., Dawson-Amoah, B. and Hamidu, J. A.. (2019). Potential of two local commercial hybrid chicken strains for egg production. *Ghanaian Journal of Animal Science*, 10 (1): 10-16.
 18. Osman, A., Omohei, J. B., Osafo, E. L. K., Karikari, P. K. and Abdul Aziz, Y. (2019). Milk yield and composition of White Fulani cows reared under extensive system of management in the Sekyere Kumawu and Sekyere Afram Plains Districts of the Ashanti Region of Ghana. *Ghanaian Journal of Animal Science*, 10 (1): 141 – 153.
 19. Osman, A., Kamaldeen, B. A., Osafo, E. L. K., Attoh-Kotoku, V. and Abdul Aziz, Y. (2019). Biomass yield and chemical composition of Red Napier grass harvested at 3 different dates after planting in the forest zone of Ghana. *Ghanaian Journal of Animal Science*, 10 (1): 154-165.
 20. Tagoe, A. N. A., Hamidu, J. A., Donkoh, A., Kofitse, N. M. and Amankwa, R. (2019). Manipulating layer feed for energy during pullet phase: effect on growth performance (9 – 20 weeks). *Ghanaian Journal of Animal Science*, 10 (1): 43-50.

21. Yeboah, P. P., Konadu, L.A., Hamidu, J. A., Poku, E. A., Wakpal, D., Kudaya, P. Y., Dey, A. and Saddiq, S. M. (2019). Hatcheries hatching chicks contribute to poor development of day-old chick's base on biological and immunological assessment. *Veterinary World*, 12(11): 1849-1857. www.veterinaryworld.org/Vol.12/November-2019/22.pdf.
22. Antwi, C., Mensa, P. A., Arthur, F. K. N., Frimpong, Y. O. and Baah, J. (2020). Direct fed microbials and its effect on the immunology of lambs. *Biomedical Journal of Scientific & Technical Research*, 26 (5): 229-234. <http://doi.org/10.26717/BJSTR.2020.26.004401>
23. Barimuah, V., Sylverken, A. A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., Frimpong, Y., Agbenyaga, O., Folitse, R., Emikpe, B., Tasiame, W., Owiredu, E-W., Oppong S., Antwi, C., Adu-Sarkodie, Y. and Drosten, C. (2020). Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *BMC Veterinary Research*, 15. <https://doi.org/10.21203/rs.3.rs-24727/v3>
24. Idan, F., Nortey, T. N. N., Paulk, C. B., Beyer, S. and Stark, C. R. (2020). Evaluating the effect of feeding starter crumbles on the overall performance of broilers raised for forty-two (42) days. *Journal of Applied Poultry Research*, 29: 692-699.
25. Idan, F., Adogla-Bessa, T. and Amaning-Kwarteng, K. (2020). Preference, voluntary feed intake and digestibility of sheep fed untreated rice straw and supplemented with sole or combined fodder tree leaves. *European Journal of Agriculture and Food Sciences*, 2 (4): 89
26. Lala, A. O., Oso, A. O., Osafo, E. L. K., Houdijk, J. G. M. and Eyarefe, D. O. (2020). Effect of high concentration of phytase supplementation on energy and nutrient digestibility of growing pigs fed with reduced dietary crude protein balanced with limiting amino acids. *Livestock Science*, 240: 1041 <https://doi.org/10.1016/j.livsci.2020.104143>
27. Lala, A. O., Oso, A. O., Osafo, E. L. K. and Houdijk, J. G. M. (2020). Impact of reduced dietary crude protein levels and phytase enzyme supplementation on growth response, slurry characteristics, and gas emissions of growing pigs. *Animal Science Journal*, 91(1) <https://doi.org/10.1111/asj.13381>
28. Nkrumah, T., Tona, K. and Hamidu, J. A. (2020).0: [10.31080/ASNH.2020.04.0696](https://doi.org/10.31080/ASNH.2020.04.0696)
29. Osman, A., Antiri, L. A., Owiredu, E., Amoah, K. O. and Karikari, P. K. (2020). Effects of feeding graded levels of Ackee Leaf Meal on nutrients digestibility, growth performance and carcass characteristics of weaner rabbits. *Animal Research Internatinal*, 17(2): 3713-3722.

CONFERENCE PROCEEDINGS.

1. Bineadeo, R., Adomako, K., Hamidu, J. A., Osei, A., Ankamah, I. N. S. and Olympio, O. S. (2019). Effects of the naked neck gene (na) and feed withdrawal on local crossbred broilers reared in hot tropical humid conditions. Proceeding of the 7th All Africa Conference on Animal Agriculture (7th AACAA), Accra International Conference Area, Accra, Ghana. July 29 to August 3, 2019.
2. Hamidu, J.A, Yeboah, P., Konadu, L., Adu, E., Wakpal, D., Kudaya, P., Dey, A. and Siddiq, S. (2019). Determining the key loopholes that lead to lower chick quality: Case study of the hatcheries. Pan Africa Poultry Congress in collaboration with World Poultry Science Association, University of Lome, Togo, May 13 to 17, 2019
3. Idan, F., Nortey, T.N.N., Paulk, C.B., Beyer, S., Fiehler, C., Truelock, C., Delfelder, C. and Stark, C.R. (2019). Effects of pellet diameter and crumble size on the growth performance and relative gizzard weight of broilers. International Production and Processing Expo (IPPE), International Poultry Scientific Forum, Georgia World Congress Centre, Atlanta, Georgia, USA, February 11 – 12, 2019. Metabolism and Nutrition. Abstract #M57, pp 19.
4. Kwarteng, E., Adomako, K., Hamidu, J.A. and Olympio, O.S. (2019). Components of total cost of production in poultry: A case study in Kwabre and Atwima Nwabiagya Districts of Ashanti region. Proceeding of the 7th All Africa Conference on Animal Agriculture (7th AACAA), Accra International Conference Area, Accra, Ghana. July 29 to August 3, 2019
5. Popoola, R. J. and Hamidu, J.A. (2019). Challenges in marketing local broiler birds compared to imported frozen chicken meat. Proceeding of the 7th All Africa Conference on Animal Agriculture (7th AACAA), Accra International Conference Area, Accra, Ghana. July 29 to August 3, 2019.
6. Sarfo, G. K. , Hamidu, J.A., Amponsah, B.K., Jacob, A.M, Jacob, A., Stephen, T. and Donkoh, A. (2019). Effect of Diamond V XPCTM on broiler chicken performance. Proceeding of the 7th All Africa Conference on Animal Agriculture (7th AACAA), Accra International Conference Area, Accra, Ghana. July 29 to August 3, 2019.
7. Unaisa, Y. and Hamidu, J.A. (2019). The relationship between dietary diversity and Omega-3 fatty acids intake on growth and development of children below five years in rural Ghana. Proceeding of the 7th All Africa Conference on Animal Agriculture (7th AACAA), Accra International Conference Area, Accra, Ghana. July 29 to August 3, 2019.
8. Wakpal, D. and Hamidu, J.A. (2019). Making hatchery operation and machinery cheaper for smallholder hatchery operators. Pan Africa

Poultry Congress in collaboration with World Poultry Science Association, University of Lome, Togo, May 13 to 17, 2019.

9. Attoh-Kotoku, V., Neequaye, F.A., Forson, E.K., Donkoh, A. and Tweneboah, G.K. (2020). Nutrient digestibility of rabbits fed varying levels of sugarcane rind meal (SCR). Proceedings of the British Society of Animal Science Annual Conference, 2020, on the theme, The Challenge of Change, page 51. 30th March – 1st April, 2020, Nottingham, United Kingdom

BOOK AND CHAPTERS IN BOOK

1. Adomako, K., Karikari, P.K. and Olympio, O.S. (Editor) (2020). Training Manual on Commercial Rabbit Production, Processing and Marketing. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 112.
2. Akwetey, W.Y. (2020). Processing and Packaging of Rabbit Meat. In: Training Manual on Commercial Rabbit Production, Processing and Marketing. (Editors) Adomako, K., Karikari, P. K. and Olympio, O. S. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 70-77.
3. Atawalna, J. and Adomako, K. (2020). Health Management. In: Training Manual on Commercial Rabbit Production, Processing and Marketing. (Editors) Adomako, K., Karikari, P. K. and Olympio, O.S. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 57-69.
4. Donkoh, A. and Karikari, P.K. (2020). Nutrition and Feeding of Rabbits. In: Training Manual on Commercial Rabbit Production, Processing and Marketing. (Editors) Adomako, K., Karikari, P. K. and Olympio, O. S. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 21-44.
5. Hagan, J. K. and Adomako, K. (2020). Principles of Breeding Rabbits. In: Training Manual on Commercial Rabbit Production, Processing and Marketing. (Editors) Adomako, K., Karikari, P. K. and Olympio, O. S. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 8-20
6. Hamidu, J. A. and Deku, G. (2020). Housing of Rabbits. In: Training Manual on Commercial Rabbit Production, Processing and Marketing. (Editors) Adomako, K., Karikari, P. K. and Olympio, O. S. PRISEBS Publishers, Anwomaso, Kumasi, Ghana, 45-56.
7. Hamidu, J. A. (Editor) (2020). Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed. Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana.

8. Hamidu, J. A. and Mensah, L. A. (2020). Hatchery and Breeder Management. In: Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed., Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana, 1-24.
9. Acheampong, A., Adomako, K. and Hamidu, J. A. (2020). Health and Hygiene Management. In: Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed., Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana, 25-26.
10. Jerebi, D. A, Agbehadzi, R. K. and Hamidu, J. A. (2020). Care of the Hatching Egg. In: Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed., Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana, 26-79.
11. Agyekum, H. O. S. and Hamidu, J. A. (2020). Hatchery Automation. In: Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed., Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana, 80-93.
12. Sarfo, G. K. and Hamidu, J. A. (2020). Brooding of Day Old Chicks and Nutrition. In: Poultry Hatchery Principles for Professionals: Curriculum on Hatchery Management for Increased Productivity of the Poultry Sector in Ghana. 1st Ed., Nunders Publishers, Plt 63A, Blk G, Chirapatre Estates, Kumasi, Ghana, 94-110.
13. Jonkera, A., Antwi, C., Biswasa, A. A., Gunterd, S. A., Hristove, A. N., Martin, C., Minnée, E. M. K, Renand, G and Waghorn, G. C. (2020). The 'GreenFeed' automated methane measurement system to determine enteric methane emissions from ruminants. In: 'Guideline for Estimating Methane Emissions from Individual Ruminants Using: GreenFeed, 'Sniffers', Hand-Held Laser Detector and Portable Accumulation Chambers.' (Eds Jonker, A. and Waghorn, G. C.) Chapter 3, (New Zealand Agricultural Greenhouse Gas Research Centre, New Zealand). 11-26. <https://globalresearchalliance.org/publication-library/?doctype=223&research-group=212>

DEPARTMENT OF CROP AND SOIL SCIENCES

ACADEMIC STAFF

Professors:

R.T. Awuah PhD (US)

R. Akromah PhD (UK)

Associate Professors

J. V. K. Afun PhD (UK)

J. Sarkodie-Addo PhD (UK)

E. A. Osekre PhD (US)

C. K. Kwoseh PhD (UK)

Senior Lecturers:

V. Logah PhD (Kumasi)

N. Ewusi-Mensah PhD (Kumasi)

A. Opoku PhD (Kumasi)

H. O. Tuffour PhD (Kumasi)

S. Amoah PhD (UK)

T. Adjei-Gyapong MSc (Belgium)

Lecturers:

A. W. Kena PhD (US)

E. A. Oyewo PhD (Bergen)

B. Annor PhD (Kumasi)

I. Kankam-Boadu PhD (Kumasi)

A. A. Amoah PhD (Japan)

S. Duku MSc (Netherlands)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Adams, F. K., Kumar, L., Kwoseh, C. and Akromah, R. (2020). Occurrence of cowpea viruses in the Forest and Savannah agro-ecological zones of Ghana. *African Crop Science Journal*, 28(3): 441-448.
2. Adu Amoah, R., Akromah, R., Asibuo, J. Y., Kena, A. W, Asare, K. B., Lamptey, M. and Adu Gyamfi, B. (2020). Mode of inheritance and combining ability of oleic acid content in groundnut (*Arachis hypogaea* L.). *Ecological Genetics and Genomics*, 17. doi:10.1016/j.egg.2020.100064. Elsevier.
3. Adu, B. G., Yeboah, A., Akromah, R., Bobobee, E., Amoah, S., Kena, A. W. and Amoah, R. A. (2020). Whole genome SNPs and phenotypic characterization of cassava (*Manihot esculenta* Crantz) germplasm in the Semi-deciduous Forest ecology of Ghana. *Ecological Genetics and Genomics*, 17. doi:10.1016/j.egg.2020.100068.
4. Agbeshie, A. A., Logah, V., Opoku, A., Tuffour, H. O., Abubakari, A. and Quansah, C. (2020). Mineral nitrogen dynamics in compacted soil under organic amendment. *Scientific African*, 9(2020): 2468-2276.
5. Agbetiameh, D., Ortega-Beltrana, A., Awuah, R. T., Atehnkenga, J., Elzeina, A., Cotty, P. J. and Bandyopadhyaya, R. (2020). Field efficacy of two atoxigenic biocontrol products for mitigation of aflatoxin contamination in maize and groundnut in Ghana. *Biological Control*, 150(2020): 104351.
6. Ametsitsi, G., van Langevelde, F., Logah, V., Janssen, T., Issifu, H., Olivier, L., Adjei-Gyapong, T., Adu-Bredu, S., Lloyd, J. and Veenendaal, E. M. (2020). Fixed or mixed? Variation in tree functional types and vegetation structure in a Forest-Savanna ecotone in West Africa. *Journal of Tropical Ecology*, 36(4): 133-149.
7. Allito, B. B., Ewusi-Mensah, N. and Logah, V. (2020). Legume-rhizobium specificity enhances nutrition and nitrogen fixation in Faba bean (*Vicia faba* L.). *Agronomy*, 9: 1-22.
8. Amoah, N. K. A., Akromah, R., Kena, A.W, Manneh, B., Dieng, I. and Bimpong, I. K. (2020). Mapping QTLs for tolerance to salt stress at the early seedling stage in rice (*Oryza sativa* L.) using a newly identified donor 'Madina Koyo'. *Euphytica*, 216. doi:10.1007/s10681-020-02689-5.
9. Bashagaluke, J. B., Logah, V., Opoku, A., Sarkodie-Addo, J. and Opoku, A. (2020). Crop nutrient uptake and productivity of four tropical cropping systems under biochar amendment. *Agronomy Journal*, 112(4): 2664-2675.
10. Essel, B., Abaidoo, R. C., Opoku, A. and Ewusi-Mensah, N. (2020). Economically optimal rate for nutrient application to maize in the Semi-

deciduous Forest zone of Ghana. *Journal of Soil Science and Plant Nutrition*. doi:10.1007/s42729-020-00240-y

11. Ewusi-Mensah, N., Mensah, P, Logah, V. and Ofori, P. (2020). Compost inoculated with *Azotobacter* sp: impact assessment on eggplant (*Solanum melongena*) productivity and soil nutrient status in Ghana. *Archives of Agronomy and Soil Science*, 66(2): 208-219.
12. Garba, M., Bakang, J.A. and Logah. V. (2020). Household socioeconomics factors and soil fertility management on millet fields of southwestern Niger. *African Journal of Food, Agriculture, Nutrition and Development*, 20(1): 15287-15303.
13. Gyasi, E., Kwoseh, C. and Moses, E. (2020). Identification of seed-borne fungi of farmer-saved seeds of pepper and their control with some selected botanicals. *Ghana Journal of Agricultural Science*, 55 (1): 43-53.
14. Keshavarzi, A., Tuffour, H. O., Bagherzadeh, A., Tattrah, L. P., Kumar, V., Gholizadeh, A. and Rodrigo-Comino, J. (2020). Using fuzzy-AHP and parametric technique to assess soil fertility status in Northeast of Iran. *Journal of Mountain Science*, 17: 931-948.
15. Lekete, E., Kwoseh, C., Osekre, E. A. and Opoku, I. Y. (2020). Perceptions of cocoa farmers about incidence and severity of thread blight disease on cocoa (*Theobroma cacao* L.) in Eastern and Ashanti Regions of Ghana. *Journal of Ghana Science Association*, 19(1) ISSN: 2737-713X
16. Logah, V., Tetteh, E. N., Adegah, E. Y., Mawunyefia, J., Ofosu, E. A. and Asante, D. (2020). Soil carbon stock and nutrient characteristics of *Senna siamea* grove in the semi-deciduous forest zone of Ghana. *Open Geosciences*, 12: 443-451.
17. Oppong, E., Opoku, A., Ewusi-Mensah, N., Danso, F., Tuffour, H. O. and Abubakari, A. (2020). The use of Microbe Plus to improve phosphorus availability from rock phosphate under oil palm (*Elaeis guinensis*, Jacq.) nursery. *International Journal of Development Research*, 10(1): 32894-32899.
18. Oppong, E., Opoku, A., Ewusi-Mensah, N., Danso, F., Tuffour, H. O. and Abubakari, A., Kyere, C. G. and Atta Poku Snr, P. (2019). The effect of Microbe Plus and phosphorus fertilizers on the vegetative growth of oil palm (*Elaeis guinensis*, Jacq.) seedlings. *Asian Journal of Soil Science and Plant Nutrition*, 5(4): 1-8.
19. Osei, O., Abaidoo, R. C., Opoku, A., Rouws, J. R. C., Boddey, R. M., Ahiabor, B. D. K. and Rouws, L. F. M. (2020). Native Bradyrhizobium strains from

Senior Lecturers:

B. B. Champion	PhD (Germany), MSc, MSc, BSc (Cape Coast)
G. Owusu-Boateng	MSc, MSc, BSc (Kumasi)
R. Edziyie	PhD (US), MSc, MSc, BSc (Kumasi),
T. K. Agyemang	PhD, MSc (Germany), BSc (Kumasi)

Lecturers:

K. A. Obirikorang	PhD, MPhil, BSc (Kumasi)
B. A. Gyampoh	PhD, MSc, BSc (Kumasi)
G. Anane-Taabeah	PhD, MSc (US) MPhil, BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Onumah, E. E., Quaye, E. A., Ahwireng, A. K. and **Campion, B. B.** (2020). Fish Consumption Behaviour and Perception of Food Security of Low-Income Households in Urban Areas of Ghana. *Sustainability*, 12(19): 7932
2. Obirikorang, K. A., Ofori, A. G. A. and Gyampoh, B. A. (2020). Dominance hierarchies within different size groupings of Nile tilapia (*Oreochromis niloticus*) and effects on growth and physiological responses. *African Zoology*, 55(3): 201-212. <https://doi.org/10.1080/15627020.2020.1756909>
3. Saalu, F., Oriaso, S. and Gyampoh, B. (2020). Effects of a changing climate on livelihoods of forest-dependent communities: Evidence from Buyangu community proximal to Kakamega tropical rain forest in Kenya. *International Journal of Climate Change Strategies and Management*, 12(1): 1-21. <https://doi.org/10.1108/IJCCSM-01-2018-0002>
4. Maina, J., Wandiga, S., Gyampoh, B. and Gachene, C. K. (2020). Effects of Supplemental Irrigation on Crop Yields: Case Study Kales (*Brassica Oleracea*) Crop. *Journal of Ecological Engineering*, 21(2): 209-213.
5. Karikari A. Y., Asmah R., Anku W. W., Amisah S., Agbo N. W., Telfer C. T. and Ross G. L. (2020). Heavy Metal Concentrations and Sediment Quality of a Cage Farm on Lake Volta, Ghana. *Aquaculture Research*, 51: 2041-2051. <https://doi.org/10.1111/are.14555>
6. Obirikorang, P. A., Champion, B. B., Edziyie, R. E., Prah Duodu, C., and Adjei-Boateng, D. (2020). Effects of oilseed meals on pellet characteristics, faecal matter production, postprandial ammonia and phosphorus excretion

- rates in Nile tilapia, *Oreochromis niloticus*, Journal of Applied Animal Research, 48:1, 525-533, DOI: 10.1080/09712119.2020.1840382
7. Jidauna, S. B, Edziyie, R. and B. B. Campion (2020). Spatiotemporal distribution of organochlorine pesticides in water and sediments of tropical reservoirs: A case study of Bui, Ghana. African Journal of Aquatic Sciences, 1-10
 8. Akongyuure, D. N. and Edziyie, R., (2020). Population characteristics of five major commercial fish species of the Tono Reservoir in northern Ghana. Lakes & Reservoirs: Research & Management, 25(2):157-166.
 9. Duodu, C. P., Adei-Boateng, D. and Edziyie, R. E., (2020). Effect of pond fertilization on productivity of tilapia pond culture in Ghana. Journal of Fisheries and Coastal Management, 2(1):12-0.
 10. Gyampoh, B. A., Atitsogbui, G. and Obirikorang, K. A. (2020). Understanding the neglected shellfish fishery of the Keta Lagoon, Ghana. Journal of Fisheries and Coastal Management, 2: 1-11. <https://doi.org/10.5455/jfcom.20190902060103>
 11. Obirikorang K. A., Gyamfi, S., Goode, M. E., Amisah, S., Edziyie, R. E., Quagrainie, K., Egna, H. and Frimpong, E. A. (2020). Effect of soybean meal diets on the growth performance, ammonia excretion rates, gut histology and feed cost of Nile tilapia (*Oreochromis niloticus*) fry. Aquaculture Research, <https://doi.org/10.1111/are.14689>
 12. Akuffo, A. S., Quagrainie, K. K. and Obirikorang, K. A. (2020). Analysis of the determinants of fish consumption by households in Ghana. Aquaculture Economics & Management, <https://doi.org/10.1080/13657305.2020.1723734>
 13. Duodu, C. P., Adjei-Boateng, D., Amponsah, A. K., Andrews, P. and Obirikorang, K. A. (2020). The effect of plant protein-based diets on apparent nutrient digestibility, growth response, egesta quantity, postprandial ammonia excretion rate and serum quality of Nile tilapia. Aquaculture Research, 52(3): 1152-1161. <https://doi.org/10.1111/are.14464>
 14. Zuh, C. K., Abobi, S. M. and Campion, B. B. (2019). Comparative assessment of age, growth and food habit of the black-chinned tilapia, *Sarotherodon melanotheron* (Rüppell, 1852), from a closed and open lagoon, Ghana. Fisheries and Aquatic Sciences, 22(1): 1-12.
 15. Maina, J., Wandiga, S., Gyampoh, B. and Gachene, C. K. (2020). Effects of Supplemental Irrigation on Crop Yields: Case Study Kales (Brassica Oleracea) Crop. Journal of Ecological Engineering, 21(2): 209-213.

16. Maina, J., Wandiga, S., Gyampoh, B., and Gachene, C. K. (2019). Analysis of Average Annual Rainfall and Average Maximum Annual Temperature for a Period of 30 years to Establish Trends in Kieni, Central Kenya. *Climatol Weather Forecasting*, 7: 249.
17. Madkour, H. A., Osman, M. R., Mansour, A. M., El-Taher, A., Obirikorang, K. A. and Hussein, H. N. M. (2019). Nature and geochemistry of surface marine sediments of Abu-Soma Bay along the Egyptian Red Sea Coast. *Journal of Applied Geology and Geophysics*, 7(6): 32-42.
18. Gyampoh. B. A. (2019). Peer Review Report For: Assessing the economic impact of climate change in the small-scale aquaculture industry of Ghana, West Africa [version 2; peer review: 2 approved]. *AAS Open Res*2019, 1:26 (<https://doi.org/10.21956/aasopenres.14095.r27222>).

BOOK CHAPTERS

1. Wongnaa, C. A., Ansong, M., Obirikorang, K. A., Nkrumah, E. E. and Arhin, A. E. (2020). Contribution of Non-Timber Forest Products to Rural and Urban Incomes in Ghana. In: *Rural-Urban Linkages and Sustainable Development: Case Studies from Africa* (Eds. Kapfudzaruwa, F., Kudo, S., Matsuyama, K., Allasiw, D.I.). Publisher: Spears Media Press, Denver, CO, USA. 101-118

DEPARTMENT OF FOREST RESOURCES TECHNOLOGY

ACADEMIC STAFF

Senior Lecturers:

S. Adu	PhD, MSc, BSc (Kumasi)
E. Acquah	PhD (Canada), MSc (Kumasi) BSc, Dip.Ed (Cape Coast)
N. Owusu – Prempeh	PhD (Kumasi), MSc (UK), BSc (Kumasi)
C. AyineNsor	PhD (Cape Coast), MSc (South Africa), BSc (Tamale), Cert.A
S. Boadi	PhD, BSc (Kumasi)
O. O. Antobre	MSc, BSc, Dip. (Kumasi)

Lecturers:

P. O. Tutu	PhD (Germany), MPhil (UK), BSc (Kumasi)
L. AkuGyiele	MSc Germany), BSc (Kumasi)
B. F. Nero	PhD (Germany) MSc, BSc
P. Opoku	PhD (Germany), MSc, BSc (Kumasi), Dip
D. P. Somuah	PhD (Netherlands), MSc (UK), BSc (Kumasi)

Assistant Lecturer:

**V. Kusi-Kyei	PhD (Kumasi), MA (Canada), BSc (Kumasi)
----------------	---

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asare, A., Asante, W. A., Owusu-Prempeh, N., Opuni Frimpong, E. and Adusu, D. (2020). Comparative Analysis of Understorey Floristic Diversity and Carbon Stocks in Poorly and Intensively Managed *Tectona grandis* Plantations. *International Journal of Forestry Research*, 2020, 8868824. <https://doi.org/10.1155/2020/8868824>
2. Agyemang, G., Abugre, S. and Owusu-Prempeh, N. (2020). Drivers of Smallholder Plantation Forestry in the Tano North District of Ghana. *Journal of Natural Sciences Research*, 10(6): 26-33. <https://doi.org/10.7176/jnsr/10-6-04>
3. Lossou, E., Owusu-Prempeh, N., and Agyemang, G. (2019). Monitoring Land Cover changes in the tropical high forests using multi-temporal remote sensing and spatial analysis techniques. *Remote Sensing Applications: Society and Environment*, 16(2019): 100264. doi:10.1016/j.rsase.2019.100264
4. Nsor, C. A., Oppong, S. K., Ochemc, M., Danquah, E., Antobree, O. W. (2020). Spatio-temporal dynamics of terrestrial invertebrate assemblages in the riparian zone of the Wewe River, Ashanti region, Ghana. *Journal of Open Life Sciences*, 15: 331-345, <https://doi.org/10.1515/biol-2020-0037> (DE GRUYTER Publishers).

5. Nsor, C. A., Ashiagbor, G. and Danquah, E. (2019). Quantifying recent floodplain vegetation change along the White Volta River in the Northern Region of Ghana. *Ghana Journal of Geography*, 11(1): 159-179. doi:<https://dx.doi.org/10.4314.gig.v11i1.10>.
6. Seidu, I., Nsor, C. A., Danquah, E., Tehoda, P. and Oppong, S. K. (2019). Patterns of Odonata Assemblages in Lotic and Lentic Systems in the Ankasa Conservation Area. Ghana. *International Journal of Zoology*, 2019: 14 <https://doi.org/10.1155/2019/3094787>. Hindawi Publishers.
7. Nsor, C. A. Oppong, S. K., Danquah, E., Ochem, M. and Antobre, O. O. (2020). Spatiotemporal dynamics of terrestrial invertebrate assemblages in the riparian zone of the Wewe river, Ashanti Region, Ghana. *Open Life Sciences Journal*, 15: 1-15.
8. Ashiagbor, G., Oduro, W., Gyiele, L., Siaw, D., Barnes, V. R., Agbenyega, O., Twum-Ampofo, K., Partey, S., Thevathasan, N., Gordon, A., Gray, R. and Odame, H. H. (2019). Toward sustainable land resources management with agroforestry: empirical evidence from the Sunyani west district of Ghana. *Agroforestry Syst.*, <https://doi.org/10.1007/s10457-019-00419-y>
9. Osei Tutu, P., Kwaku M., and Acheampong E. (2020). Starting and Operating a Bamboo Business in Ghana: An Introductory Guide for Bamboo Business Development, INBAR

CONFERENCE PROCEEDINGS

1. Bertrand, F., Amponsah, P., Antobre, O., Owusu-Prempeh, N. and Acquah, E. (2019). Sprouting and growth performance of the two plant species and amendment effects on soil total petroleum hydrocarbon and total oil and grease concentration levels. 1–4.

DEPARTMENT OF SILVICULTURE AND FOREST MANAGEMENT

ACADEMIC STAFF

Associate Professors:

- | | |
|---------------|--|
| E. Acheampong | PhD, MSc (UK), BSc (Kumasi) |
| B. Kyereh | PhD (Scotland), MSc (UK), BSc (Kumasi), Cert Ed (UK) |

Senior Lecturers:

J. B. Echeruo	PhD, MSc, (Netherlands), BSc (Kumasi),
D. Dompkeh	PhD (Scotland), MSc (Kumasi), BSc (Cape Coast),
W. A. Asante	PhD, BSc (Kumasi)

Lecturers:

M. Ansong	PhD (Australia), MSc (Norway), BSc (Kumasi)
L.K. Brobbey	PhD (Denmark/Kumasi), MSc, BSc (Kumasi),
F.K. Agyei	PhD (Denmark/Kumasi), MSc (Denmark), BSc (Kumasi)
E.A. Boakye	PhD (Germany/Cote d'Ivoire), MSc (Netherlands/Kumasi), BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Agyei, F. K., Hansen, C. P. and Acheampong, E. (2020). Access along Ghana's charcoal commodity chain. *Society and Natural Resources*, 33(2): 224-243.
2. Adjei, P. O. W., Agyei, F. K. and Adjei, J. O. (2020). Decentralized forest governance and community representation outcomes: analysis of the modified Taungya system in Ghana. *Environment, Development, and Sustainability*, 22 (2): 1187-1209.
3. Agyei, F. K., Hansen, C. P. and Acheampong, E. (2019). Forestry officials don't have any land or rights here: Authority of politico-legal institutions along Ghana's charcoal commodity chain. *Journal of Rural Studies*, 72: 264–272.
4. Adams, M. A., Kayira J., Gruber J. S., Idemudia U., Tegegne Y. T., Attah A. N., Tuokuu F. X. D. and Ansong M. (2020). Good governance practices in Ghana's FLEGT voluntary partnership agreement process: an application of Q methodology. *Journal of Environmental Policy & Planning*, DOI: [10.1080/1523908X.2020.1784116](https://doi.org/10.1080/1523908X.2020.1784116)
5. Moussa, S., Kuyah, S., Kyereh B., Tougiani, A. and Saadou, M. (2020). Diversity and structure of urban forests of Sahel cities in Niger. *Urban Ecosystems*, (2020). <https://doi.org/10.1007/s11252-020-00984-6>
6. George Ashiagbor, G., Forkuo, E. K., Asante, W. A., Acheampong, E., Quaye-Ballard, J. A., Boamah, P., Yakubu, M. and Foli, E. (2020). Pixel-based and object-oriented approaches in segregating cocoa from forest in the

Juabeso-Bia landscape of Ghana. *Remote Sensing Applications: Society and Environment*, 19 (2020) 100349. <https://doi.org/10.1016/j.rsase.2020.100349>

7. Myers, R., Rutt, R., McDermott, C., Maryudi, A., Acheampong, E., Camargo, M. and Cãm, H. (2020). Imposing legality: hegemony and resistance under the EU Forest Law Enforcement, Governance, and Trade (FLEGT) initiative. *Journal of Political Ecology*, 27 (1): 125-146.
8. Maryudi, A., Acheampong, E., Rutt, R., Myers, R. and McDermott, C. L. (2020). "A Level Playing Field"? – What an Environmental Justice Lens Can Tell us about Who Gets Leveled in the Forest Law Enforcement, Governance and Trade Action Plan. *Society & Natural Resources*, 33(7):859-875. DOI: 10.1080/08941920.2020.1725201
9. Acheampong, E. and Maryudi, A. (2020). Avoiding legality: Timber producers' strategies and motivations under FLEGT in Ghana and Indonesia. *Forest Policy and Economics*, 111(2020): 102047.

CONFERENCE PROCEEDINGS

1. Boakye, E. A., Houle, D., Bergeron, Y. and Drobyshev, I. (2020). Sensitivity of the growth of conifers and hardwoods to climatic forcing in the boreal mixedwoods of Eastern Canada. Canadian Botanical Association Annual Conference, June 1-2, 2020.

BOOK CHAPTER

1. Wongnaa, C. A., Ansong M., Obirikorang, K. A., Nkrumah, E. E. and Arhin A. A. (2020). Contribution of Non-Timber Forest Products to Rural and Urban Incomes in Ghana. In Kapfudzaruwa, F., Kudo, S., Matsuyana, K, Allasiw DI. (eds). *Rural-Urban Linkages and Sustainable Development: case studies from Africa*. Spears Media Press, Denver.
2. McDermott, C. L., Acheampong, E., Arora-Jonsson, S., Asare, R., De Jong, W., Hirons, M., Khatun, K., Menton, M., Nunan, F., Poudyal, M. and Setyowati, A. (2019). SDG 16: Peace, Justice and Strong Institutions – A Political Ecology Perspective. In: P. Katila, C. Pierce Colfer, W. De Jong, G. Galloway, P. Pacheco, & G. Winkel (Eds.), *Sustainable Development Goals: Their Impacts on Forests and People* (pp. 510-540). Cambridge: Cambridge University Press. doi:10.1017/9781108765015.018

DEPARTMENT OF WILDLIFE AND RANGE MANAGEMENT

ACADEMIC STAFF

Professors:

E. Danquah	PhD (Kumasi)
W. Oduro	PhD (Ibadan)
S. K. Oppong	PhD (Massey)

Lecturers:

E. E. Nkrumah	PhD (Kumasi)
G. Ashiagbor	MPhil (Kumasi)
L. Addae – Wireko	MSc (Kumasi)
B. Kankam	PhD (Canada)

Technical Staff:

M. E. Nutsuakor	MSc (Germany)
C. Kessey	BSc (Kumasi)
G. A. Yeboah	BSc (Cape Coast)

ARTICLES PUBLISHED IN REFERRED JOURNALS

1. Collins Ayine Nsor, Samuel K. Oppong, Emmanuel Danquah, Michael Ochem, Osei Owusu Antobre (2020). Spatiotemporal dynamics of terrestrial invertebrate assemblages in the riparian zone of the Wewe River, Ashanti region, Ghana. *Open Life Sciences*, 2020 (15): 331–345.
2. Asabere, S. B., Acheampong, R. A., Ashiagbor, G., Beckers, S. C., Keck, M., Erasmi, S., Schanze, J. and Sauer, D. (2020). Urbanization, land use transformation and spatio-environmental impacts: Analyses of trends and implications in major metropolitan regions of Ghana. *Land Use Policy*, 96, 104707.
3. Ashiagbor, G., Forkuo, E. K., Asante, W. A., Acheampong, E., Quayeballard, J. A., Boamah, P., Mohammed, Y., and Foli, E. (2020). Pixel-based and object-oriented approaches in segregating cocoa from forest in the

juabeso-bia landscape of Ghana. *Remote Sensing Applications: Society and Environment*, 100349.

4. Ashiagbor, G., Ofori-Asenso, R., Forkuo, E. K. and Agyei-Frimpong, S. (2020). Measures of geographic accessibility to health care in the Ashanti Region of Ghana. *Scientific African*, 9, e00453.
5. Afrifa, J., Yeboah, O. K., Gyamera, E. O., Ashiagbor, G. and Sorkpor, R. D. (2019). The clinical importance of the mercury problem in artisanal small scale gold mining. *Frontiers in Public Health*, 7, 131.
6. Ashiagbor, G., Oduro, W., Gyiele, L., Siaw, D., Barnes, V. R., Agbenyega, O., Twum-Ampofo, K., Partey, S., Thevathasan, N. and Gordon, A. (2019). Toward sustainable land resources management with agroforestry: empirical evidence from the Sunyani west district of Ghana. *Agroforestry Systems*, 1–11.

CONFERENCE PROCEEDINGS

1. Lester, J., Vigilant, L., Gratton, P., McCarthy, M., Barratt, C. D., Boesch, C., Kuehl, H., Dieguez, P., Aebischer, T., Agbor, A., Varona, P.A., Angedakin, S., Assumang, A. K., Aubert, F., Ayimisin, E. A., Bailey, E., Barubiyo, D., Bessone, M., Bonnet, M., Brazzola, G., Chancellor, R., Cipoletta, C., Cohen, H., Corogenes, K., Coupland, C., Curran, B., Danquah, E., Deschner, T., Dierks, K., Dilambaka, E., Dowd, D., Dunn, A., Dupain, J., Egbe, V. E., Goedmakers, A., Granjon, A-C., Hedwig, D., Hermans, V., Imong, I., Jeffery, K. J., Jones, S., Junker, J., Kadam, P., Kaiser, M., Kalan, A. K., Kambere, M., Kambi, M., Kienast, I., Kujirakwinja, D., Langergraber, K. E., Lapeyre, V., Lapuente, J., Larson, B., Lee, K., Leinert, V., Llana, M., Manasseh, E-N., Maretti, G., Marrocoli, S., Martin, R., Meier, A., Morgan, D., Mulindahabi, F., Murai, M., Neil, E., Nicholl, S., Nixon, S., Niyigaba, P., Normand, E., Orbell, C., Ormsby, L.J., Pacheco, L., Piel, A., Preece, J., Regnaut, S., Robbins, M., Sanz, C., Sciaky, L., Sommer, V., Stewart, F., Tagg, N., Telfer, P., Ton, E., van Schijndel, J., Vanleeuwe, H., Vergnes, V., Vyalengerera, M. K., Wessling, E. G., Willie, J., Wittig, R. M., Yuh, Y. G., Yurkiw, K., Zuberbuehler, K., Arandjelovic, M. (2019). Chimpanzee Biogeography Inferred From Genetic Diversity And Effective Migration. EFP-PSGB Conference 2019, Oxford, UK, September 08-11, 2019.
2. Fontsero, C., Lizano, E., Alvarez-Estape, M., Gratton, P., Lester, J., Hughes, D. A., Kuhlwilm, M., de Manuel, M., Calvet, F., Dieguez, P., Aebischer, T., Agbor, A., Alvarez Varona, P., Angedakin, S., Assumang, A. K., Aubert, F., Ayimisin, E. A., Bailey, E., Barubiyo, D., Bessone, M., Bonnet, M., Brazzola, G., Chancellor, R., Cohen, H., Corogenes, K., Coupland, C., Danquah, E., Curran, B., Dilambaka, E., Egbe, V. E., Eshuis, H., Deschner, T., Dowd, D., Dunn, A., Dupain, J., Hedwig, D., Hermans, V., Jones, S., Kadam, P., Goedmakers, A.,

Granjon, A. C., Kaiser, M., Head, J., Kambi, M., Kambale, M. V., Imong, I., Kienast, I., Lapuente, J., Jeffery, K. J., Larson, B., Laudisoit, A., Lee, K., Leinert, V., Kambere, M., Langergraber, K., Kujirakwinja, D., Lapeyre, V., Marrocoli, S., Martin, R., Mulindahabi, F., Murai, M., Meier, A., Maretti, G., Nixon, S., Neil, E., Orbell, C., Ormsby, L. J., Piel, A., Regnaut, S., Sanz, C., Sciaky, L., Niyigabae, P., Morgan, D., Tickle, A., Normand, E., van Schijnde, J., Terrade, E., Ton, E., Willie, J., Yuh, Y. G., Yurkiw, K., Preece, J., Robbins, M., Vigilant, L., Stewart, F. A., Boesch, C., Rundus, A., Kühl, H., Arandjelovic, M., Marques-Bonet, T., Sommer, V., Pacheco, L., Tagg, N., Vanleeuwe, H., Vergnes, V., Wittig, R. M., Zuberbuehler, K., McElreath, R. (2019). Genetics of the PanAfr project: chimpanzee diversity from faecal samples. 2019 SMBE (Society for Molecular Biology and Evolution) meeting, Manchester, UK, July **21-25, 2019**.

DEPARTMENT OF HORTICULTURE

ACADEMIC STAFF

Associate Professors:

B. K. Banful	PhD, MPhil, BSc
P. Y. Adjei	MSc (UK)
F. Appiah	PhD, MSc, MBA, BSc

Senior Lecturers:

I. A. Idun	PhD (South Africa), MSc, BSc
Dr. B. K. Maalekuu	PhD (Jerusalem)
L. Atuah	PhD, MPhil (UK) BSc
P. Kumah	MSc, BSc

Lecturers:

E. Gaveh	PhD (South Korea), MSc, MBA (South Korea), BSc
N. Amaglo	PhD (China), MSc, BSc
H-V. Adzraku	MSc, BSc
P. D. Kaledzi	MPhil, BSc

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Mensah, A., Asiamah, M., Wongnaa, Camillus A., Adams, F., Etuah, S., Gaveh, E., Appiah, Patrick. (2020). Adoption impact of maize seed technology on farm profitability: Evidence from Ghana. *Journal of Agribusiness in Developing and Emerging Economies*, SSN: 2044-0839 (JADEE-06-2020-0120. R2)
2. Sugri, I., Maalekuu, B. K., Gaveh, E., Kusi, F. and Lamini, S. (2020). Assessment of Low-cost Postharvest Techniques to Reduce Storage Losses in Sweet Potato. *Sustainable Agriculture Research*; 9(4): 2020. doi:10.5539/. URL: <https://doi.org/>
3. Kumah, P., Lartey, E. N. and Odum B. (2020). Anti-microbial Effect of Cocoa Leaf Extracts on *Botryodiplodia theobromae*; Leading Causative Organism of Crown Rot Disease of Banana (*Musa acuminata*). *Asian Journal of Agricultural and Horticultural Research* 7(3): 40-50.
4. Krah, C. Y., Kumah, P., Mardjan, S. and Njume, A. C. (2020). Effect of different threshing methods on the physical characteristics of two varieties of paddy rice. *Earth and Environmental Science*, 542: 1-9. doi:10.1088/1755-1315/542/1/012022
5. Kumah, P., Tandoh, P. K. and Konadu, K. S. (2020). Effect of Different Waxing Materials on the Quality and Shelf Life of Mysore Banana Variety. *Asian Journal of Advanced Research and Reports* 12(1): 1-11. DOI: 10.9734/AJARR/2020/v12i130277
6. Boakye-Dankwa, A., Maleekuu, B. K., Kumah, P. and Tandoh, P. K. (2020). Effect of three pickling agents on the physicochemical properties of two varieties of cucumber stored under tropical ambient conditions. *Archives of Current Research International* 20(5): 18-23. DOI: 10.9734/ACRI/2020/v20i530193
7. Yeboah, J., Dadzie, A. M., Segbefia, M. A. D., Lowor, S. T., Agene, V. N., Osei-Akoto, S., Owusu-Ansah, F., Banful, B. K. B. and Atuah L. (2020). Vegetative Propagation of Cashew (*Anacardium occidentale* L.) by Softwood Grafting in Ghana. *Journal of Agricultural Science*, 12(8): 257-264.
8. Nyame-Tawiah, D., Atuah, L. and Koranteng, C. (2020). Determination of the effect of green roofs on indoor temperature by use of simulation in a tropical landscape. *Journal of Scientific Research and Reports*, 26(4): 12-28.
9. Ofosu, D. O., Appiah, F. and Banful, B. (2020). Interactive Effect of Different Fruit Packaging Materials and Doses of Gamma Irradiation on Postharvest Behaviour of Apantu (*Musa sp* AAB) Fruits from the Green Stage to the

Onset of Ripening. International Journal of Postharvest Technology and Innovation, In Press

<https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijpti>

10. Ofosu, D. O., Appiah, F. and Banful, B. (2020). Interactive Effect of Variety and Irradiation Dose on Postharvest Behaviour of Fruits of Two Plantain (*Musa sp* AAB) Varieties from the Green Stage to the Onset of Ripening. American Journal of Plant Sciences, 11: 372-381. <https://doi.org/10.4236/ajps.2020.113027>
11. Yakubu, F. J. and Kumah, P. (2019). Identifying Popular Indigenous Leafy Vegetables for Sustainable Interest in Vegetable Production in the Tamale Metropolis in the Northern Region of Ghana. International Journal of Environment, Agriculture and Biotechnology. 4(3): 664-670. <http://dx.doi.org/10.22161/ijeab/4.3.11>
12. Komlaga, G., Gaveh, E., Jibira, Y. and Mensah, M. L. K. (2019). Phytochemistry, proximate and antioxidant properties of some indigenous leafy vegetables. World Journal of Advanced Research and Reviews, 3(1): 12-22. DOI: <https://doi.org/10.30574/wjarr.2019.3.1.0044>

DEPARTMENT OF AGROFORESTRY

ACADEMIC STAFF

Associate Professor:

A. A. Abunyewa PhD (US), Dip.Ed, MPhil (Accra), BSc, Dip.Ed (Cape Coast)

Senior Lecturers:

O. Agbenyega PhD (UK), MPhil, BA (Kumasi)

V. R. Barnes PG.Cert. (US), BSc (Kumasi)

*E. Dawoe PhD (Kumasi), MSc (Germany), MPhil, (Kumasi), BSc (Legon)

K. Twum-Ampofo PhD, Dip, Cert., MSc, (Japan), Cert., BSc (Kumasi)

Lecturers:

J. Kaba PhD (Italy), MPhil (Accra), BSc (Tamale)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Barnes, V. R., Swaine, M. D., Pinard, M. A. and Kyereh, B. (2020). Fuel management in Ghana's tropical forests: Implications on implementation costs, fuel loading and fire behavior. *Journal of Forest and Environmental Science*. 36(4): 2288-9744.
2. James S., Out-Nyanteh, K. A. and Abunyewa, A. A. (2020). The role of shade trees in influencing farmers' adoption of cocoa agroforestry systems: The insights from semi-deciduous rain forest agroecological zone of Ghana. *NJAS-Wageningen Journal of Life Sciences*. 92(2020): 100332. <https://doi.org/10.1016/j.njas.2020.100332>
3. Akpalu, S. E., Dawoe, E. K. and Abunyewa, A. A. (2020). Effect of *Ferdherbia albida* on some important soil fertility indicators on agroforestry parklands in the Semi-arid zone of Ghana. *African Journal of Agricultural Research*, 15(2): 256-268. DOI: 10.5897/AJAR2019.14617
4. Neya, T., Abunyewa, A. A., Neya, O., Zoungrana, B, J-B., Dimobe, K., Tiendrebeogo, H. and Magistro, J. (2020). Carbon Sequestration Potential and Marketable Carbon Value of Smallholder Agroforestry Parklands Across Climatic Zones of Burkina Faso: Current Status and Way Forward for REDD+ Implementation. *Environmental Management*, <https://doi.org/10.1007/s00267-019-01248-6>
5. Neya, O., Neya, T., Abunyewa, A. A., Benewinde, J.-B., Zoungrana, H., Tiendrebeogo, K. D. and Korahire, J. A. (2020). Land use land cover dynamics and farmland intensity analysis at Ouahigouya Municipality, Burkina Faso. *American Journal of Climate Change*, 9: 23-33. <https://doi.org/10.423/ajcc.2020.91003>
6. Ammal, A., Abunyewa, A. A. and Yeboah, E. (2020). Influence of integrated soil fertility management on the vegetative growth parameters of *Zea mays* in the Savanna Eco-zone of Ghana. *Journal of Agricultural Sciences*. 65(2): 187-197. <https://doi.org/10.2298/JAS20021878>

7. Ochire-Boadu, K., Abunyewa, A. A., Kaba, J. S., Twum-Ampofo, K., Dawoe, E. L. K., Agbenyega, O. and Barnes, V. R. (2020). Improved legume fallows: Influence on nitrogen and microbial dynamics, and maize (*Zea mays* L) grain yield in sub-humid zone of West Africa. *Cogent Food & Agriculture*, doi.org/10.1080/23311932.2020.1785778. Taylor & Francis.
8. Kaba, J. S. and Abunyewa, A. A. (2019). New aboveground biomass and nitrogen yield in different ages of gliricidia (*Gliricidia sepium* Jacq.) trees under different pruning intensities in moist semi-deciduous forest zone of Ghana. *Agroforestry Systems*, <https://doi.org/10.1007/s10457-019-00414-3>
9. Neya, T., Abunyewa, A. A., Neya, O. and Callo-Concha, D. (2019). Trade-off of Tree Conservation and Crop Production on Agroforestry Parklands in Burkina Faso. *Journal of Agricultural Studies*, 7(1): 41-54. doi:10.5296/jas.v7i1.
10. Akpalu, S. E., Dawoe, E. L. and Abunyewa, A. A. (2019). Effects of boiled water pre-sowing treatment on the germination and early performance of *Faidherbia albida* in three ecological zones of Ghana. *Asian Journal of Research in Agriculture and Forestry*, 4(3): 1-17. DOI: 10.9734/AJRAF/2019/v4i330065
11. Ashiagbor, G. Oduro, W., Gyiele L., Siaw, D., Barnes, V. R, Agbenyega, O., Twum-Ampofo, K., Partey, S., Thevathasan, N., Gordon, A., Gray, R. and Odame, H. H. (2019). Toward sustainable land resources management with agroforestry: empirical evidence from the Sunyani West District of Ghana. *Agroforestry Systems*. 94 (2020): 527-537.
12. [Badu](#), E., Kaba, J. S., [Abunyewa](#), A. A., [Dawoe](#), E. K., [Agbenyega](#), O. and [Barnes](#), V. R. (2019). Biochar and inorganic nitrogen fertilizer effects on maize (*Zea mays* L) nitrogen use and yield in moist-semi-deciduous forest zone of Ghana. *Journal of Plant Nutrition*. 42(19): 2407-2422.
13. Boakye, E. A, Gebrekirstos, A., Hyppolite, D. N, Barnes, V. R., Porembski, S. and Brauning, A. (2019). Carbon Isotopes of Riparian Forests Trees in the Savannas of the Volta Sub-Basin of Ghana Reveal Contrasting Responses to Climatic and Environmental Variations. *Forests*, 10(251): 1-13. Doi: 10.3390/f100330251.

DEPARTMENT OF WOOD SCIENCE AND TECHNOLOGY

ACADEMIC STAFF

Associate Professors:

#C. Antwi-Boasiako PhD (UK), MPhil (Kumasi), BSc Dip.Ed Cape Coast)

*Nana K. Frimpong-Mensah PhD, PG.Cert, (Norway), MSc, BSc (Kumasi),

Senior Lecturers:

K. A. Afrifah PhD, MSc (US), MSc, BSc (Kumasi)

Rogerson Anokye PhD (Malaysia), MSc (Kumasi), BEd (Winneba),

Lecturers:

Kwadwo Boakye Boadu PhD (Kumasi), MSc (Wales), BSc (Kumasi)

*J. Osei Kofi MPhil, BSc (Kumasi)

#*Staff on Post Retirement Contract*

**Staff on Part-Time Contract*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Afrifah A. K., Asiedu-Agyei E. O. A. and Mitchual S. J. (2020). Statistical optimization of the physical and mechanical properties of briquettes of Ceiba pentandra sawdust and agricultural residue, PRO LIGNO, 16(4): 46-60.
2. Boadu, B. K., Ansong, B. M., Afrifah, A. K. and Nsiah-Asante E. (2020). Pulp and paper making characteristics of fibers from plantation-grown Oxythenantera abyssinica and Beema bamboo (a tissue cultured clone from Bambusa balcooa). Journal of Natural Fibers, Doi: 10.1080/15440478.2020.1856270.
3. Adusa-Poku, N. Y. and Anokye, R. (2020). Proposed framework for Applying Total Quality Management in Construction Industry in Ghana. International Journal of Construction Engineering and Management, 9(3): 92-98. doi:10.5923/j.ijcem.20200903.02.
4. Bakar, E. S., Nazip, M. N. M., Anokye, R. et al. (2019). Comparison of three processing methods for laminated bamboo timber production. Journal of Forest Research, 30(1) [doi: 10.1007/s11676-018-0629-2](https://doi.org/10.1007/s11676-018-0629-2)

DEPARTMENT OF BEHAVIOURAL SCIENCES

ACADEMIC STAFF

Professor:

J. Appiah-Poku (Rev.) STM, STB, FABTP

Associate Professor:

F. E. Owusu-Ansah (Sr.) BA, MSc, PhD

Senior Lecturers:

E. S. Adjaottor BEd, MEd, PhD

A. Frimpong-Manso MBChB, DPM, MRCPsych

C. Amoah BSc, MPhil

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Gureje, O., Seedat, S., Kola, L., Appiah-Poku, J., Othieno, C., Harris, B., Makanjuola, V., Price, L.N., Ayinde, O.O. and Esan, O. (2019). Partnership for mental health development in Sub-Saharan Africa (PaM-D): a collaborative initiative for research and capacity building. *Epidemiology and psychiatric sciences*, 28(4), 389.
2. Esan, O., Appiah-Poku, J., Othieno, C., Kola, L., Harris, B., Nortje, G., Makanjuola, V., Oladeji, B., Price, L., Seedat, S., & Gureje, O. (2019). A survey of traditional and faith healers providing mental health care in three sub-Saharan African countries. *Social psychiatry and psychiatric epidemiology*, 54(3), 395–403.

DEPARTMENT OF CHILD HEALTH

ACADEMIC STAFF

Professor

S. Antwi FWACP, FGCP

D. Ansong FWACP, FGCP

E. Addo-Yobo FGCP

Associate Professor

A. Osei-Akoto FWACP, FGCP

Senior Lecturer

G. Plange-Rhule FGCP

J. Dogbe FWACP

S. B. Nguah FWACP, FGCP

A. Enimil FWACP, FGCP

E. Ameyaw FWACP, FGCP

Lecturer

C. Hammond FWACP, FGCP

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Paintsil, E., Kyriakides, T.C, Antwi, S., Renner, L., Nichols, J.S, Amissah, K., Kusah, J.T., Alhassan, A., Ofori, I.P., Catlin, A.C., Gan, G., Lartey, M., and Reynolds, N.R. (2020). [Clinic-Based Pediatric Disclosure Intervention Trial Improves Pediatric HIV Status Disclosure in Ghana.](#) J Acquir Immune Defic Syndr. 84(1), 122-131.
2. Antwi, S. (2019). Hearing loss in patients with chronic kidney disease and psychological burden in their caregivers. Ghana Med J, 53(3), 189.
3. Agyei-Baffour, P., Ansong, D., Osei, F.A., Appiah, S.C.Y., Kwarteng, S.O., Nyanor, I., Bonney, J., Enimil, A., Laryea, D.O., Dapaah, J.M. and Mensah, N. (2020). Social constructs, late recognition and decision making for managing fast breathing in children. Children and Youth Services Review, 118, 105416.
4. Okyere, B., Owusu-Ofori, A., Ansong, D., Buxton, R., Benson, S., Osei-Akoto, A., Owiredu, E.W., Adjei, C., Xorse Amuzu, E., Marfo Boaheng, J. and Dickerson, T. (2020). Point prevalence of asymptomatic Plasmodium infection and the comparison of microscopy, rapid diagnostic test and nested PCR for the diagnosis of asymptomatic malaria among children under 5 years in Ghana. PloS one, 15(7), .e0232874.
5. Ansong, D., Osei, J.A., Owusu, S.K., Nyanor, I., Bonney, J., Enimil, A., Laryea, D.O., Dapaah, J., Agyei-Baffour, P., Mensah, N., Osei-Pepurah, I., Owusu, A., Addo-Yobo, E., Osei-Akoto, A., Owusu, O.A., Appiah, S.C.Y., Ampiah, V., Saahene, J.O., Amuzu, E.X., Telly, M., and Sylverken, J. (2020). Educating

caregivers to recognise the clinical signs of pneumonia in children younger than 6 months. *South African Journal Of Child Health*, 14(2),71

6. Makani, J., Sangeda, R.Z., Nnodu, O., Nembaware, V., Osei-Akoto, A., Paintsil, V., Balandya, E., Kent, J., Luzzatto, L., Ofori-Acquah, S., Olopade, O.I., Pallangyo, K., Minja, I.K., Jonas, M., Mazandu, G.K., Mulder, N., Ohene-Frempong, K., and Wonkam, A. (2020). Sickle in Africa. *Lancet Haematol* 7(2), e98-e99.
7. Adekile, A., Anie, K.A., Hamda, C.B., Brown, B., Bukini, D., Campbell, A., Chaouch, M., Chimusa, E., Chunda-Liyoka, C., Dennis-Antwi, J. and Derebail, V.K. (2019). The Sickle Cell Disease Ontology: enabling universal sickle cell-based knowledge representation. Database, 2019.
8. Opoku, M.P., Nketsia, W., Alzyoudi, M., Dogbe, J.A. and Agyei-Okyere, E., 2020. Twin-track approach to teacher training in Ghana: exploring the moderation effect of demographic variables on pre-service teachers' attitudes towards inclusive education. *Educational Psychology*, 1-20.
9. Nketsia, W., Edusei, A., Hammond, C., Dogbe, J.A., Afriyie, S.A., Opoku, M.P. and Kyeremateng, J.D. (2019). Experiences of primary caregivers of children with cerebral palsy across the trajectory of diagnoses in Ghana. *African journal of disability*, 8(1), 1-11.
10. Baffoe-Sarpong, K., Ameyaw, E., and Duku, F.A. (2020). Musculoskeletal Disorders among Emergency Nurses at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Am J Med Public Health*. 1(1), 1002.
11. Ayisi-Boateng, N.K., Enimil, A., Mohammed, A., Essuman, A., Lawson, H., Opoku-Aninng, D., Agyemang-Yeboah, D., and Spangenberg, K. (2020). [Predictors of family functionality amongst human immunodeficiency virus-serodiscordant couples in two major hospitals in Kumasi, Ghana.](#) *Afr J Prim Health Care Fam Med*, 12(1), 2355.
12. Hardy, Y. O., Antwi, P. K., Agbeno, E. K., Yifeyeh, A. C., Enimil, A., and Afful, B. A. (2021). Determinants of post-disclosure violence among women living with HIV in sero-discordant unions in Kumasi, Ghana: a cross-sectional study. *AIDS care*, 33(2), 187-191.
13. Enimil, A., Oppong, E., Obodai, E.O., Osei-Bonsu, A., Akoto, and E.O. (2020). A Diagnostic Dilemma: Was this death not a Case of an Infant with Cytomegalovirus Infection? *Postgraduate Medical Journal of Ghana*, 9(1), 69-72.
14. Enimil, A., Antwi, S., Yang, H., Dompreeh, A., Alghamdi, W.A., Gillani, F.S., Orstin, A., Bosomtwe, D., Opoku, T., Norman, J. and Wiesner, L. (2019). Effect of first-line antituberculosis therapy on nevirapine pharmacokinetics

in children younger than three years old. *Antimicrobial agents and chemotherapy*, 63(10), e00839-19.

15. Agyei-Baffour, P., Ansong, D., Osei, F.A., Appiah, S.C.Y., Kwarteng, S.O., Nyanor, I., Bonney, J., Enimil, A., Laryea, D.O., Dapaah, J.M. and Mensah, N. (2020). Social constructs, late recognition and decision making for managing fast breathing in children. *Children and Youth Services Review*, 118, 105416.
16. Sarfo, F.S., Mobula, L., Plange-Rhule, J., Gebregziabher, M., Ansong, D., Sarfo-Kantanka, O., Arthur, L., Sablah, J., Gavor, E., Burnham, G., and Ofori-Adjei, D. (2020). Longitudinal control of blood pressure among a cohort of Ghanaians with hypertension: A multicenter, hospital -based study. *The Journal of Clinical Hypertension*, 22(6), 949-958.
17. Sarfo, F.S., Mobula, L.M., Arthur, L., Plange-Rhule, J., Burnham, G., Sablah, J., Gavor, E., Ansong, D., Sarfo-Kantanka, O., Gyamfi, R.A. and Duah, J., (2019). Differential pricing of medicines to improve access to medicines for hypertension and diabetes control in Ghana: The Ghana Access and Affordability Program, a multi-center prospective trial. *Gates Open Research*, 3(1515), 1515.
18. Valéa, I., Adjei, S., Usuf, E., Traore, O., Ansong, D., Tinto, H., Owusu Boateng, H., Some, A.M., Buabeng, P., Vekemans, J. and Kotey, A. (2020). Long-term immunogenicity and immune memory response to the hepatitis B antigen in the RTS, S/AS01E malaria vaccine in African children: a randomized trial. *Human vaccines & immunotherapeutics*, 16(6), 1464-1470.
19. Bakari, A., Bell, A.J., Oppong, S.A., Bockarie, Y., Wobil, P., Plange-Rhule, G., Goka, B.Q., Engmann, C.M., Adanu, R.M. and Moyer, C.A. (2019). Neonatal near-misses in Ghana: a prospective, observational, multi-center study. *BMC pediatrics*, 19(1), 1-10.
20. Mosler, G., Oyenuga, V., Addo-Yobo, E., Adeyeye, O.O., Masekela, R., Mujuru, H.A., Nantanda, R., Rylance, S., Ticklay, I. and Grigg, J., (2020). Achieving Control of Asthma in Children in Africa (ACACIA): protocol of an observational study of children's lung health in six sub-Saharan African countries. *BMJ open*, 10(3), e035885.

BOOK CHAPTERS

1. Hammond CK, Wilmschurst JM. (2020). Salih M.A. (eds). *Classification of Childhood Epileptic Seizures*. Clinical Child Neurology. Springer Nature, Cham, Switzerland.

DEPARTMENT OF CLINICAL MICROBIOLOGY

ACADEMIC STAFF

Professor:

Y. Adu-Sarkodie PhD, MSc (UK), MBCHB (Kumasi)

Associate professors:

P. K. Feglo PhD, MSc (Kumasi), BSc (Legon)

M. Mutocheluh PhD, MSc, MSc (UK), BSc (Cuba)

Senior Lecturers:

A. Owusu-Ofori PhD (UK), MPhil, MBCHB (Kumasi)

R. C. Brenya MSc, BSc (Legon)

L. B. Debrah PhD, MSc, BSc (Kumasi)

Lecturers:

P. W. Narkwa PhD, MSc, BSc (Kumasi)

K. G. Boahen

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Osei-Tawiah, B., Kwofie, T. B., Mutocheluh, M., Ephaim, R., and Blay, E. A. (2019). Prevalence of HIV, Hepatitis B, Hepatitis C and Syphilis Infections among Patients in a Psychiatric Hospital in Ghana. *Int J Virol AIDS*, 6, 050.
2. Becherer, L., Knauf, S., Marks, M., Lueert, S., Frischmann, S., Borst, N., von Stetten, F., Bieb, S., Adu-Sarkodie, Y., Asiedu, K. and Mitjà, O., and Bakheit, M. (2020). Multiplex Mediator Displacement Loop-Mediated Isothermal Amplification for Detection of *Treponema pallidum* and *Haemophilus ducreyi*. *Emerg Infect Dis*, 26(2), 282–288.
3. Ephraim, R.K., Brenyah, R.C., Adoba, P., Agbodjakey, H., Allotey, L.E., Korang, P., Duah, E., Bogoch, I., Abaka-Yawson, A., Hotorvi, C. and Kwadzokpui, P.K. (2020). Renal function in children infected with *Schistosoma haematobium*: a case–control study of an endemic Ghanaian community. *Journal of Parasitic Diseases*, 1-6.

4. Acheampong, G., Owusu, M., Owusu-Ofori, A., Osei, I., Sarpong, N., Sylverken, A., Kung, H.J., Cho, S.T., Kuo, C.H., Park, S.E., and Marks, F. (2019). Chromosomal and plasmid-mediated fluoroquinolone resistance in human *Salmonella enterica* infection in Ghana. *BMC Infect Dis*, 19(1), 898.
5. Acheampong, G., Owusu, M., Owusu-Ofori, A., Osei, I., Sarpong, N., Sylverken, A., Kung, H.J., Cho, S.T., Kuo, C.H., Park, S.E., and Marks, F. (2019). Whole-Genome Sequences of Two Multidrug-Resistant *Acinetobacter baumannii* Strains Isolated from Patients with Urinary Tract Infection in Ghana. *Microbiol Resour Announc* 8(31).
6. Agyepong, N., Govinden, U., Owusu-Ofori, A., Amoako, D.G., Allam, M., Janice, J., Pedersen, T., Sundsfjord, A., and Essack, S. (2019). Genomic characterization of multidrug-resistant ESBL-producing *Klebsiella pneumoniae* isolated from a Ghanaian teaching hospital. *Int J Infect Dis*, 85, 117-123.
7. Konadu, D.G., Owusu-Ofori, A., Yidana, Z., Boadu, F., Iddrisu, L.F., Adu-Gyasi, D., Dosoo, D., Awuley, R.L., Owusu-Agyei, S., and Asante, K.P. (2019). Prevalence of vulvovaginal candidiasis, bacterial vaginosis and trichomoniasis in pregnant women attending antenatal clinic in the middle belt of Ghana. *BMC Pregnancy Childbirth*, 19(1), 341.
8. Okyere, B., Owusu-Ofori, A., Ansong, D., Buxton, R., Benson, S., Osei-Akoto, A., Owiredu, E.W., Adjei, C., Xorse Amuzu, E., Marfo Boaheng, J., and Dickerson, T. (2020). Point prevalence of asymptomatic *Plasmodium* infection and the comparison of microscopy, rapid diagnostic test and nested PCR for the diagnosis of asymptomatic malaria among children under 5 years in Ghana. *PloS one*, 15(7), e0232874.
9. Horton, J., Klarmann-Schulz, U., Stephens, M., Budge, P.J., Coulibaly, Y., Debrah, A., Debrah, L.B., Krishnasastri, S., Mwingira, U., Ngenya, A., and Wanji, S. (2020). The design and development of a multicentric protocol to investigate the impact of adjunctive doxycycline on the management of peripheral lymphoedema caused by lymphatic filariasis and podoconiosis. *Parasites & vectors*, 13, 1-11.

CONFERENCE PAPERS/PROCEEDINGS

1. Gyamfi, P.A., Debrah, A.Y., Osei-Mensah, J., Opoku, S.V., Adu-Mensah, D., Mubarik, Y., Horeauf, A., and Debrah, L.B. (2019). Impact of 15 Years of Mass Drug Administration on Lymphatic Filariasis Control Efforts in the Kassena Nankana East Municipal. The 8th College of Health Sciences and 12th Convention of Biomedical Research Kumasi, Ghana, July 2019 (Oral presentation – Abstract No. 4).

2. Fordjour, F.A., Debrah, L.B, Osei-Mensah, J., Mubarik, Y., Gyamfi, P.A, and Debrah, A.Y. (2019). Assessing the Involvement of Nuclear Kappa Light Chain Enhancer of Activated B cell Inhibitor-Alpha in Filarial Lymphedema Development. The 8th College of Health Sciences and 12th Convention of Biomedical Research Kumasi, Ghana, July 2019 (Oral presentation – Abstract No. 14).
3. Mubarik, Y., Debrah, L.B, Osei-Mensah, J., Fordjour, F.A., and Debrah, A.Y. (2019). Microfilaridermia Assessment of the Efficacy of Ivermectin Alone and Ivermectin plus Albendazole against Onchocerciasis. The 8th College of Health Sciences and 12th Convention of Biomedical Research Kumasi, Ghana, July 2019 (Poster presentation – Abstract No. P012).

DEPARTMENT OF EYE, EAR, NOSE AND THROAT

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Saah, S.N., Issahalq, D.M., Dongyele, M., Adu, G., and Nyadu, O. (2020). Ear/Headphones as a Risk Factor to Aural Health of Disk Jockeys and On-Air presenters in Kumasi, Ghana. *Journal of Ear, Nose and Throat Disorders*, 5 (1): 1042
2. Lartey, S., Ellen, K.A.A., Abdul, K.M., Derrick, N.O.M., and Agyapong, S. (2019). Comparing Knowledge of Corneal and Organ Transplantation and Attitudes towards Corneal and Organ Donation among University Health Students in Kumasi – Ghana. *JOJ Ophthalmology*, 7(5): 555723.
3. Lartey, S., and Armah, P. (2019). Vitamin A Supplementation in Preschool Children. Coverage and Factors Determining Uptake in Three Districts of Ghana. *JOJ Ophthalmology*, 8(1): 555726.
4. Lartey, S., Ellen, K., Antwi-Adjei., Agyapong, S., Abdul-Kabir, M., Derrick, N.O., and Mensah, S.G. (2019). Awareness and attitudes toward corneal donation among applicants and staff of a driver, vehicle and licensing authority (DVLA) in Ghana. *BMC Ophthalmology*, 19: 224.
5. Zouache, M.A., Silvestri, G., Amoaku, W.M., Silvestri, V., Hubbard, W.C., Pappas, C., Akafo, S., Lartey, S., Mastey, R., Carroll, J., and Hageman, S.G. (2020). Comparison of the Morphology of the Foveal Pit between African and Caucasian Populations. *Translational Vision Science & Technology* 9(5): 24.

- Lartey, S., Mohammed, A. K., Appiagyei, E., and Akuffo, K. (2021). Potential of the Pentacam in Screening for Narrow Angles in Patients with Chronic Angle-Closure Glaucoma. *Annals of African Surgery*, 18(1): 39-44.

CONFERENCE PRESENTATION

- Lartey S. (2020). Initiation of the National Cataract Outreach Program and lessons learnt. In. proceedings of the World Ophthalmology Congress. WOC 2020 Virtual. 26TH-29TH June 2020.
- Bruce, M. E., Antwi, B.B., Anomah, J.E., Otupiri, E., Liu, C., Vivas, E., Waller, B., Opoku B.J., Larsen-Reindorf, R., Mark, E.P., Moyer, J., Duah, M., and Basura, G.J. Pediatric Hearing Loss in Kumasi, Ghana: A pilot Validation Study using in-community Metrics to establish Feasibility of Testing. (Poster Presentation). Conference: Coalition for Global Hearing Health. Miami, Fl, October, 2017. Project: Hearing Loss in Sub-Saharan Africa

DEPARTMENT OF MEDICINE

ACADEMIC STAFF

Professors:

- G. Bedu-Addo BSc, MBChB, FWACP, FRCP, FGCPs
- K. Opare-Sem BSc, MBChB, B.Med.Sc, FACP, FGCPs, FRCP
- B. Eghan BSc, MBChB, FWACP, FGCPs
- R. O. Phillips BSc, MBChB, PhD, FWACP, FGCPs

Associate Professors:

- I. K. Owusu BSc, MBChB, DPDM, FGCPs, FWACP
- B. C. Nkum BSc, MBChB, FWACP, FGCPs
- F. S. Sarfo BSc, MBChB, FWACP, PhD, PhD

Senior Lecturers:

- B.R. Norman BSc, MBChB, DTM & H, FWACP
- L.T. Appiah BSc, MBChB, FWACP, FGCPs

E. Acheamfour-Akowuah	BSc, MBChB, FWACP, FGCPs
E. K. Tannor	BSc, MBChB, MPhil, FWACP
P. Okyere	BSc, MBChB, FWACP
O. S. Kantanka	BSc, MBChB, FWACP
M. Osei-Ampofo	BSc, MBChB, FGCPs

Lecturers:

M. Agyei	MD, MSc, FWACP
J. Akaasi	BSc, MBChB, FWACP
C. Kokuro	BSc, MBChB, FWACP
P. Tawiah	BSc, MBChB, FACP
N. K. Ayisi-Boateng	BSc, MBChB, MPhil, FGCPs
Y. Adu-Boakye	BSc, MBChB, FWACP

Adjunct Lecturer:

Y. A. Amoako	BSc, MBChB, FWACP
--------------	-------------------

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Owusu, I.K., and Wiafe, Y.A. (2019). Left Ventricular Dysfunction: The Perspective of Echocardiography in Ghana. *World Journal of Cardiovascular Diseases*, 9, 639-648.
2. Nsutebu, N., Owusu, I.K., Buabeng, K.O., and Bonsu, K.O. (2020). Ambulatory blood pressure monitoring and management of hypertension at a cardiac clinic in Kumasi Metropolis, Ghana. *J Clin Hypertens*, 00, 1–9.
3. Nyiambam, W., Sylverken, A.A., Owusu, I.K., Buabeng, K.O., Boateng, F.O., and Owusu-Dabo, E. (2020). Cardiovascular disease risk assessment among patients attending two cardiac clinics in the Ashanti Region of Ghana. *Ghana Med J*, 54(3), 140-145.
4. Collinson, S., Frimpong, V.N.B., Agbavor, B., Montgomery, B., Oppong, M., Frimpong, M., Amoako, Y.A., Marks, M., and Phillips, R.O. (2020). Barriers to Buruli ulcer treatment completion in the Ashanti and Central Regions, Ghana. *PLoS Negl Trop Dis.*, 14(5), e0008369.

5. Van Der Werf, T. S., Barogui, Y. T., Converse, P. J., Phillips, R. O., & Stienstra, Y. (2020). Pharmacologic management of *Mycobacterium ulcerans* infection. *Expert review of clinical pharmacology*, 13(4), 391-401.
6. Phillips, R.O., Robert, J., Abass, K.M., Thompson, W., Sarfo, F.S., Wilson, T., Sarpong, G., Gateau, T., Chauty, A., Omollo, R. and Otieno, M.O. (2020). Rifampicin and clarithromycin (extended release) versus rifampicin and streptomycin for limited Buruli ulcer lesions: a randomised, open-label, non-inferiority phase 3 trial. *The Lancet*, 395(10232), 1259-1267.
7. Neary, M., Olagunju, A., Sarfo, F., Phillips, R., Moss, D., Owen, A., and Chadwick, D. (2020). Do genetic variations in proximal tubule transporters influence tenofovir-induced renal dysfunction? An exploratory study in a Ghanaian population. *Journal of Antimicrobial Chemotherapy*, 75(5), 1267-1271.
8. Villa, G., Abdullahi, A., Owusu, D., Smith, C., Azumah, M., Sayeed, L., Austin, H., Awuah, D., Beloukas, A., Chadwick, D. and Phillips, R. (2020). Determining virological suppression and resuppression by point-of-care viral load testing in a HIV care setting in sub-Saharan Africa. *EClinicalMedicine*, 18, 100231.
9. Sarfo, F. S., Mensah, N. O., Opoku, F. A., Adusei-Mensah, N., Ampofo, M., and Ovbiagele, B. (2020). COVID-19 and stroke: experience in a Ghanaian healthcare system. *Journal of the Neurological Sciences*, 416, 117044.
10. Sarfo, F. S., and Ovbiagele, B. (2020). Prevalence and predictors of statin utilization among patient populations at high vascular risk in Ghana. *Journal of the neurological sciences*, 414, 116838.
11. Sarfo, F.S., Mobula, L.M., Adade, T., Commodore-Mensah, Y., Agyei, M., Kokuro, C., Adu-Gyamfi, R., Duah, C. and Ovbiagele, B. (2020). Low blood pressure levels & incident stroke risk among elderly Ghanaians with hypertension. *Journal of the neurological sciences*, 413, 116770.
12. Sarfo, F.S., Mobula, L., Plange-Rhule, J., Gebregziabher, M., Ansong, D., Sarfo-Kantanka, O., Arthur, L., Sablah, J., Gavor, E., Burnham, G. and Ofori-Adjei, D. (2020). Longitudinal control of blood pressure among a cohort of Ghanaians with hypertension: A multicenter, hospital-based study. *The Journal of Clinical Hypertension*, 22(6), 949-958.
13. Sarfo, F.S., Akinyemi, R., Howard, G., Howard, V.J., Wahab, K., Cushman, M., Levine, D.A., Ogunniyi, A., Unverzagt, F., Owolabi, M. and Ovbiagele, B. (2020). Vascular-brain Injury Progression after Stroke (VIPS) study: concept for understanding racial and geographic determinants of cognitive decline after stroke. *Journal of the neurological sciences*, 412, 116754.

14. Sarfo, F.S., Ovbiagele, B., Gebregziabher, M., Akpa, O., Akpalu, A., Wahab, K., Ogbole, G., Akinyemi, R., Obiako, R., Komolafe, M. and Owolabi, L. (2020). Unraveling the risk factors for spontaneous intracerebral hemorrhage among West Africans. *Neurology*, 94(10), e998-e1012.
15. Akpa, O.M., Made, F., Ojo, A., Ovbiagele, B., Adu, D., Motala, A.A., Mayosi, B.M., Adebamowo, S.N., Engel, M.E., Tayo, B. and Rotimi, C. (2020). Regional patterns and association between obesity and hypertension in Africa: Evidence from the H3Africa Chair study. *Hypertension*, 75(5), 1167-1178.
16. Akinyemi, R.O., Jenkins, C., Nichols, M., Singh, A., Wahab, K., Akpalu, A., Sarfo, F.S., Owolabi, L.F., Obiako, R., Akinyemi, J. and Ojebuyi, B. (2020). Unraveling the Ethical, Legal, and Social Implications of Neurobiobanking and Stroke Genomic Research in Africa: A Study Protocol of the African Neurobiobank for Precision Stroke Medicine ELSI Project. *International Journal of Qualitative Methods*, 19, 1609406920923194.
17. Di Cristanziano, V., Weimer, K., Böttcher, S., Sarfo, F.S., Dompok, A., Cesar, L.G., Knops, E., Heger, E., Wirtz, M., Kaiser, R. and Norman, B. (2020). Molecular Characterization and Clinical Description of Non-Polio Enteroviruses Detected in Stool Samples from HIV-Positive and HIV-Negative Adults in Ghana. *Viruses*, 12(2), 221.
18. Sarfo-Kantanka, O., Asamoah-Boaheng, M., Arthur, J., Agyei, M., Barnes, N. A., Tenkorang, E. Y., and Midodzi, W. (2020). Trends in type 1 diabetes diagnosis in Ghana. *International health*.
19. Martin, A., Kweku, A. J. J., Afua, O., Koranteng, T. E., & Kwasi, A. E. (2020). African histoplasmosis—an underdiagnosed tropical disease in Ghana. *World Journal of Advanced Research and Reviews*, 7(1), 178-182.
20. Agyei, M. (2020). Poland Syndrome. A curious anomaly. *African Journal of Current Medical Research*, 4(1).
21. Graßmann, S., Pivovarovova-Ramich, O., Henze, A., Raila, J., Ampem Amoako, Y., King Nyamekye, R., Bedu-Addo, G., Mockenhaupt, F.P., Schulze, M.B. and Danquah, I. (2020). SNP rs6564851 in the BCO1 Gene Is Associated with Varying Provitamin a Plasma Concentrations but Not with Retinol Concentrations among Adolescents from Rural Ghana. *Nutrients*, 12(6), 1786.
22. Van Loon, W., Gai, P P., Hamann, L., Bedu-Addo, G., & Mockenhaupt, F. P. (2019). MiRNA-146a polymorphism increases the odds of malaria in pregnancy. *Malaria journal*, 18(1), 1-7.
23. Amuasi, A.A., Acheampong, A.O., Kokuro, C., Ofori, A., Yayra, K., Abu-Sakyi, J., and Adu-Ababio, F. (2020). *Bacteriology and Antibiotic Sensibility*

Associated with Extracted Carious Teeth: A Cross Sectional Study at Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Open Journal of Stomatology*, 10(05), 87.

24. Tannor, E.K., Akumiah, E., Adusei, K., and Bedu-Addo, G., (2019). Quality of life among the stages of chronic kidney disease in Ghana – A single centre study. *Kidney International Reports*, 4(7), S263-S264.

CONFERENCE PROCEEDINGS/ABSTRACT

1. Gebreyohannis, M., Akinyemi, R.A., Owolabi, M.O., Sarfo, F.S., and Ovbiagele, B. (2020). The inaugural African Stroke Organization Conference. *J Neurol Sci*;418, 117089.

DEPARTMENT OF MOLECULAR MEDICINE

ACADEMIC STAFF

Professor:

F. Agyemang-Yeboah	PhD (UK), MSc (UK), BSc, LLB (Kumasi), BL (Accra)
R. A. Ngala	PhD (UK), MSc, BSc (Kumasi)

Associate Professors:

E. F. Laing	PhD, MSc (UK), MBChB, BSc (Kumasi) FGCPs (Accra)
-------------	--

Senior Lecturers:

C. Obirikorang	PhD, BSc (Kumasi)
L. A. Fondjo	PhD, BSc (Kumasi)
W. K. B. A. Owiredo	PhD (South Africa), MPhil, BSc (Kumasi)
S. A. Sakyi	PhD, BSc (Kumasi)
M. E. Annani-Akollor	PhD (China), MSc, BSc (Kumasi)

Lecturers:

Michael Frimpong	PhD, BSc (Kumasi)
------------------	-------------------

Anthony Afum-Adjei Awuah PhD, BSc (Kumasi)

Samuel Nkansah Darko PhD, MSc, BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Harley, B. K., Dickson, R. A., Amponsah, I. K., Ngala, R. A., Berkoh, D., and Fleischer, T. C. (2020). Antidiabetic effect of *Chrysophyllum albidum* is mediated by enzyme inhibition and enhancement of glucose uptake via 3T3-L1 adipocytes and C2C12 myotubes. *Asian Pacific Journal of Tropical Biomedicine*, 10(9), 387
2. Anto, E.O., Obirikorang, C., Acheampong, E., Adua, E., Donkor, S., Afranie, B.O., Ofori, M., Asiamah, E.A. and Adu, E.A. (2019) Renal abnormalities among children with sickle cell conditions in highly resource-limited setting in Ghana. *PLoS One* 14, e0225310
3. Obirikorang, C., Acheampong, E., Quaye, L., Yorke, J., Amos-Abanyie, E.K., Akyaw, P.A., Anto, E.O., Bani, S.B., Asamoah, E.A., and Batu, E.N. (2020) Association of single nucleotide polymorphisms with dyslipidemia in antiretroviral exposed HIV patients in a Ghanaian population: A case-control study. *PLoS One* 15, e0227779
4. Asamoah, E. A., Obirikorang, C., Acheampong, E., Annani-Akollor, M. E., Laing, E. F., Owiredu, E. W., and Anto, E. O. (2020). Heritability and Genetics of Type 2 Diabetes Mellitus in Sub-Saharan Africa: A Systematic Review and Meta-Analysis. *Journal of diabetes research*, 2020.
5. Nyarko, E., Obirikorang, C., Owiredu, W.K.B.A., Adu, E.A, Acheampong, E., Aidoo, F., Ofori, E., Addy, B.S., and Asare-Anane, H. (2020). NTCP gene polymorphisms and hepatitis B virus infection status in a Ghanaian population. *Virology Journal*, 17(1), 91.
6. Owiredu, W.K.B.A., Appiah, M., Obirikorang, C., Adu, E.A., Boima V., Amos-Abanyie E.K., Akyaw P.A., Owiredu E.-W., and Acheampong E. (2020). Association of MYH9-rs3752462 polymorphisms with chronic kidney disease among clinically diagnosed hypertensive patients: a case-control study in a Ghanaian population. *Clinical Hypertension* 26, 15.
7. Lokpo, S.Y., Ofori-Attah, P., Ameke, L.S., Obirikorang, C., Orish, V.N., Kpene, G.E., Agboil, E., Kye-Duodu, G., Deku, J.G., Awadzi, B.K., Noagbe, M., Quarshie, S.T. (2020) Viral Suppression and Its Associated Factors in HIV Patients on Highly Active Antiretroviral Therapy (HAART): A Retrospective Study in the Ho Municipality, Ghana. *AIDS Research and Treatment*, 2020.

8. Owiredu, W.K.B.A., Brenya, P.K., Osei, Y., Laing, E.F., Okrah, C.O., Obirikorang, C., Anto, E.O., Acheampong, E., and Donkor, S. (2019). Evaluation of serum iron overload, AST: ALT ratio and log10ferritin: AST ratio among schizophrenia patients in the Kumasi Metropolis, Ghana: a case–control study. *BMC Research Notes*, 12, 802.
9. Yorke, J., Acheampong, E., Batu, E.N., Obirikorang, C., Yeboah, F.A. and Asamoah, E.A. (2019). Quality of life of colorectal cancer survivors in a Ghanaian population. *BMC Research Notes*, 12, 781.
10. Amakwah, B., Asamoah, E., Amoah, B., and Afraine, B. (2019). Awareness and occupational exposures to needlestick injuries among healthcare workers: A quantitative assessment in a Ghanaian Metropolis. *Global Journal on Quality and Safety in Healthcare*, 2(3), 70-77.
11. Addai-Mensah, O., Annani-Akollor, M.E., Nsafoah, F.O., Fondjo, L.A., Owiredu, E.W., Danquah, K.O., Duneeh, R.V., and Amponsah, F.A (2019). Effect of poor glycaemic control on plasma levels and activity of protein C, protein S, and antithrombin III in type 2 diabetes mellitus. *PLoS One*, 14(9), e0223171.
12. Annani-Akollor, M.E, Laing, E.F, Addai-Mensah, O., Fondjo, L.A., Adu, E.A., Owiredu, E.W. (2020). Population-derived cut-off for HbA1c could enhance the identification of metabolic syndrome among non-diabetic population. *Heliyon*. (2020 Aug 1); 6(8), e04583.
13. Fondjo, L.A., Annani-Akollor, M., Addai-Mensah, O., Owusu-Koofie, P, Eddie-Williams, O., Amankwaa, B., and Owiredu, W.K.B.A. (2019). Characterization of Cardiometabolic Risk Factors among Long Distance Commercial Drivers in Kumasi, Ghana. *PLOS ONE*. Volume 6, Issue 1, January 2020, e03147<https://doi.org/10.1016/j.heliyon.2019.e03147>
14. Addai-Mensah, O., Gyamfi, D., Duneeh, R. V., Danquah, K. O., Annani-Akollor, M. E., Boateng, L., Owiredu, E.W., Amponsah, F.A., Afriyie, E.Y., Asare, R., and Ofose, D. N. (2019). Determination of haematological reference ranges in healthy adults in three regions in Ghana. *BioMed research international*, 2019, 7467512.
15. Kyeremeh, R., Antwi-Baffour, S., Annani-Akollor, M., Adjei, J. K., Addai-Mensah, O., and Frempong, M. (2020). Comediation of Erythrocyte Haemolysis by Erythrocyte-Derived Microparticles and Complement during Malaria Infection. *Advances in Hematology*, 2020.
16. Danquah, K. O., Mensah, K., Nkansah, C., Appiah, S. K., Noagbe, M., Hardy, Y., Ntiamoah, D.O., Boateng, L.A., Annani-Akollor, M.E., Owiredu, E.W., and Addai-Mensah, O. (2020). Molecular Characterization of Glucose-6-Phosphate Dehydrogenase: Do Single Nucleotide Polymorphisms Affect

Hematological Parameters in HIV-Positive Patients? *Journal of tropical medicine*, 2020.

17. Fondjo, L. A., AddaiMensah, O., Annani-Akollor, M. E., Quarshie, J. T., Boateng, A. A., Assafuah, S. E., & Owiredo, E. W. (2020). A multicenter study of the prevalence and risk factors of malaria and anemia among pregnant women at first antenatal care visit in Ghana. *Plos one*, 15(8), e0238077.
18. Asamoah, E.A., Obirikorang, C., Acheampong, E., Annani-Akollor, M.E., Laing, E.F., Owiredo, E.W., and Anto, E.O. (2020). Heritability and Genetics of Type 2 Diabetes Mellitus in Sub-Saharan Africa: A Systematic Review and Meta-Analysis. *Journal of diabetes research*, 2020, 3198671.
19. Addai-Mensah, O., Dinko, B., Noagbe, M., Ameke, S. L., Annani-Akollor, M. E., Owiredo, E. W., Mensah, K., Tackie, R., Togbe, E., Agyare-Kwabi, C., and Debrah, A. Y. (2020). Plasmodium falciparum histidine-rich protein 2 diversity in Ghana. *Malaria journal*, 19(1), 1-8.
20. Owusu-Afriyie, O., Owiredo, W.K.B.A., Oti, A.A., Acheampong, E., Owusu-Danquah, K., Larsen-Reindorf, R., Fondjo, L.A., Adu, E.A., Donkor, S., Donkor, P. (2020). Survival rates of head and neck cancers in Ghana: a retrospective study at the Komfo Anokye Teaching Hospital. *BMC Res*, 13(1), 392.
21. Nsiah, I., Boakye-Danquah, C., Odame, A.E., Obirikorang, C., Owiredo, W.K.B.A., Acheampong, E., Obirikorang, Y., Asamoah, A.E., Donkor, S., and Odame, A.A. (2020). Factors associated with knowledge, attitude and practice towards Hepatitis B Infection among pregnant women in the Kumasi Metropolis, Ghana a multi-centre hospital-based cross-sectional study. *PAMJ – One Health*, 2, 24.
22. Gyan, E., Green, A., Fondjo, L.A., Jackson, A., and Owiredo, W.K.B.A. (2020). The role of ALDH 1a1 contribution to Breast Tumour Aggressiveness: a study conducted in an African population. *Cell Biology*.
23. Bani, S.M., Obirikorang, C., Danquah, K.O., Owiredo, W.K.B.A., Quaye, L., Sakyi, S.A., Adams, Y., Dapare, P.P.M., Banyeh, M., and Gandau, B.B.N. (2020). Effects of Highly Active Antiretroviral Treatment on Liver and Kidney Functions. *International STD Research and Reviews*, 9(2), 8-16.
24. Gyan, E., Fondjo, L.A., Owiredo, W., Jackson, A., and Green, A. (2020). Breast cancer stem cells: A fallow research ground in Africa. *Pathology-Research and Practice*, 216.
25. Lokpo, S.Y., Osei-Yeboah, J., Owiredo, W.K.B.A., Agordoh, P., Kortei, N.K., Mensah D., Nogo, P., Ussher, F.A., Ameke, L.S., Dika, N.D., Kwasi, D.A., Noagbe, M., Segbefia, S. (2020): Evaluation of dietary patterns and haematological

profile of apparently healthy prison officers in the Ho municipality: A cross-sectional study. *Scientific African*, 7, e00284

26. Amidu, N., Antuamwine, B.B., Akilla, M.A., Owiredu, W.K.B.A., Addai-Mensah, O., Dapare, P.P., and Bawa, E.M. (2020). Leucocyte differential count and Pregnancy Induced Hypertension: Implications for Risk and Disease Assessment. *American Journal of Laboratory Medicine*, 5(1), 32-41.
27. Anto, E.O., Owiredu, W.K.B.A., Adua, E., Obirikorang, C., Fondjo, L.A., Annani-Akollor, M.E., Acheampong, E., Asamoah, E.A., Roberts, P., Wang, W., and Donkor, S. (2020). Prevalence and Lifestyle-related risk factors of obesity and unrecognized hypertension among bus drivers in Ghana. *Heliyon* 6(1), e03147.
28. Owiredu, W.K.B.A., Brenya, P.K., Osei, Y., Laing, E.F., Opoku, O.C., Obirikorang, C., Anto, E.O., Acheampong, E., Donkor, S. (2019). Evaluation of serum iron overload, AST: ALT ratio and log₁₀ ferritin: AST ratio among Schizophrenia Patients in the Kumasi Metropolis, Ghana: a case-control study. *BMC Research Notes*, 12(1), 802.
29. Adu-Gyamfi, E.A., Fondjo, L.A., Owiredu, W.K.B.A., Czika, A., Nelson, W., Lamptey, J., Wang, Y.X., and Ding, Y.B. (2019). The role of adiponectin in placentation and preeclampsia. *Cell Biochemistry and Function*, 1-12.
30. Frempong, M.T., Ntiamoah, P., Annani-Akollor, M.E., Owiredu, W.K., Addai-Mensah, O., Owiredu, E.W., Adu-Gyasi, D., Agyapong, E.O., and Sallah, L. (2019). Hepatitis B and C infections in HIV-1 and non-HIV infected pregnant women in the Brong-Ahafo Region, Ghana. *PloS one*, 14(7), e0219922.
31. Owusu-Afriyie, O., Owiredu, W.K.B.A., Oti, A.A., Acheampong, E., Owusu-Danquah, K., Larsen-Reindorf, R., Fondjo, L.A., Adu, E.A., Donkor, S., and Donkor, P. (2020). Survival rates of head and neck cancers in Ghana: a retrospective study at the Komfo Anokye Teaching Hospital. *BMC Research Notes*, 13(1), 1-3.
32. Fondjo, L. A., AddaiMensah, O., Annani-Akollor, M. E., Quarshie, J. T., Boateng, A. A., Assafuah, S. E., and Owiredu, E. W. (2020). A multicenter study of the prevalence and risk factors of malaria and anemia among pregnant women at first antenatal care visit in Ghana. *Plos one*, 15(8), e0238077.
33. Gyan, E., Fondjo, L. A., Owiredu, W., Jackson, A., & Green, A. (2020). Breast cancer stem cells: A fallow research ground in Africa. *Pathology, research and practice*, 216(10), 153118.
34. Storph, R.P., Gartey, F.N., Ephraim, R.K., Mensah, E., Mornah, M., Ahenkorah-Fondjo, L., Simpong, D.L., Addai, C., Domson, B.K.S., Baidoo, J.B., and Adu,

- P. (2019). The Effect of Chemotherapy on Clinical, Haematological and Biochemical Profile in Breast Cancer Patients Undergoing Chemotherapy at Cape Coast Teaching Hospital; a Longitudinal Study. *Journal of Cancer and Tumor International*, 1-9.
35. Bedu-Addo, K., Ephraim, R.K.D., Tanoë-Blay, C., Ahenkorah-Fondjo, L., Osei-Darkwah, K., Ephraim, M., Kontoh, K.A, and Abaka-Yawson, A. | Yaşam Kemal Akpak (Reviewing editor) (2020). Prevalence and associated factors of fetal macrosomia in a rural community in Ghana, *Cogent Medicine*, 7, 1.
 36. Fondjo, L. A., Boamah, V. E., Fierti, A., Gyesei, D., & Owiredu, E. W. (2019). Knowledge of preeclampsia and its associated factors among pregnant women: a possible link to reduce related adverse outcomes. *BMC pregnancy and childbirth*, 19(1), 1-7.
 37. Adu-Gyamfi, E.A., Fondjo, L.A., Owiredu, W.K., Czika, A., Nelson, W., Lamptey, J., Wang, Y.X., and Ding, Y.B. (2020). The role of adiponectin in placentation and preeclampsia. *Cell biochemistry and function*, 38(1), 106-117.
 38. Annani-Akollor, M. E., Addai-Mensah, O., Fondjo, L. A., Sallah, L., Owiredu, E. W., Acheampong, E., & Akamugri, S. (2019). Predominant complications of type 2 diabetes in Kumasi: a 4-year retrospective cross-sectional study at a teaching hospital in Ghana. *Medicina*, 55(5), 125.
 39. Addai-Mensah, O., Annani-Akollor, M.E., Fondjo, L.A., Anto, E.O., Gyamfi, D., Sallah, L., Agama, D., Djabatay, R., and Owiredu, E.W. (2019). High-sensitivity c-reactive protein: a potential ancillary biomarker for malaria diagnosis and morbidity. *Disease markers*, 2019.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

ACADEMIC STAFF

Professors:

K.A. Danso	BSc, MB ChB (Kumasi), FWACS, FGCS (Accra), FACOG (US)
------------	--

H.S. Opare-Addo	BSc, MB ChB (Kumasi), FWACS, FGCS (Accra)
-----------------	---

Associate Professors:

A.T. Odoi	BSc, MB ChB (Kumasi), FWACS, FGCS (Accra)
-----------	---

B.K. Opoku BSc, MB ChB (Kumasi), FWACS, FGCS (Accra)

Senior Lecturers:

F.A. Kokroe BSc (Kumasi), MB ChB (Kumasi), FWACS, FGCS (Accra)

G.O. wusu-Asubonteng MD, FA geb/gyn (Germany), FGCS (Accra)

R.E. Larsen – Reindorf BSc, MB ChB (Kumasi), FWACS, FGCS (Accra)

T.O. Konney MD (Almaty), FWACS, FGCS (Accra)

Lecturers:

J. J. K. Annan BSc, MB ChB (Kumasi), MRCOG (London), P/ Cert, ART (UK)

R. M. Djokoto BSc, MB ChB (Kumasi), FWACS

F. M. J. K. Damalie BSc, MB ChB (Kumasi), FWACS, FGCS, MSc (Australia)

A. Peprah BSc, MB ChB, MPH (Kumasi), FGCs

K. A. Antwi BSc, MB ChB (Kumasi), FWACS, FGCS

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Ossei, P.P.S., Appiah-Kubi, A., Ankobea-Kokroe, F., Owusu-Asubonteng, G., Ayibor, W.G., Aninkora, O.K., Taylor, J., Fenteng, E.A., Agyemang-Duah, E., Agagli, B.M. and Niako, N., 2020. The culture of herbal preparations among pregnant women: a remedy or a suicide potion? A case report and mini review. *Case reports in pathology*, 2020.
2. Gyedu, A., Lester, L., Stewart, B., Danso, K.A., Salia, E.L., Quansah, R., Donkor, P., and Mock, C. (2020). Estimating obstetric and gynecologic surgical rate: A benchmark of surgical capacity building in Ghana. *International Journal of Gynecology & Obstetrics*, 148(2), 205-209.
3. Annan, J.J.K., Asubonteng, G.O., and Konney, T.O. (2020). Experience with Diagnostic Laparoscopy in the Evaluation of Tubal Factor Infertility. *Open Journal of Obstetrics and Gynecology*, 10(05), 688.
4. Appiah-Kubi, A., Konney, T. O., Gyanteh, Y. O., Lawrence, E., and Johnston, C. (2019). Bilateral Torsion of Ovarian Dermoid Cyst In An 18-Year-Old Nulligravida: A Case Report. *Int J Case Rep*, 3(7).

5. Azanu, W.K., Dassah, E.T., Agbeno, E.K., Ofori, A.A., and Opare-Addo, H.S. (2020). Knowledge of obstetric fistula among prenatal clinic attendees and midwives in Mfantseman municipality, Ghana. *International Journal of Gynecology & Obstetrics*, 148, 16-21.
6. Kweku, A.J.J., Owusu, A.G., Okpoti, K.T., and Larsen, R.R.E. (2020). Experience with diagnostic laparoscopy for gynaecological indications. *World Journal of Advanced Research and Reviews*, 6(2), 239-244.
7. Agyei, M., Annan, J.J.K., Ofori, A., Tannor, E.K. and Adjei, E.K. (2020). African histoplasmosis – an underdiagnosed tropical disease in Ghana. *World Journal of Advanced Research and Reviews*, 7(1), 178-182.
8. Annan, J. J., Larsen-Reindorf, R. E., Frimpong, G. A., & Owusu-Afriyie, O. (2019). Endometriosis: An “Unexplored”, “Neglected” or “Forgotten” Condition in Africa? *Open Journal of Obstetrics and Gynecology*, 9(1), 29-41.
9. Ossei, P. P. S., Owusu, I. K., Owusu-Asubonteng, G., Ankobea-Kokroe, F., Ayibor, W. G., & Niako, N. (2020). Prevalence of Venous Thromboembolism in Kumasi: A Postmortem-Based Study in a Tertiary Hospital in Ghana. *Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine*, 14, 1179548420956364.

CONFERENCE PAPERS/PROCEEDINGS

1. Konney, T.O., Johnston, C., Amo-Antwi, K., Appiah-Kubi, A., Tawiah, A., Antwi-Kusi, A., Bonsu, E.O., and Odoi, A.T. (2019). Stage IB2 invasive cervical cancer diagnosed at 20 weeks gestation: Neoadjuvant chemotherapy followed by caesarean radical hysterectomy at term and chemoradiation: report of a case. *Annual Global Meeting of the International Gynaecologic Cancer Society Rio de Janeiro, Brazil, 19-21 September 2019.*
2. Ankobea, F. Postmortal Caesarean delivery: Overworked Doctors and Patients Care: Discordant HIV Couple. *Ghana College of Physicians and Surgeons: Pre-Conference Workshop. December 2019.*

DEPARTMENT OF RADIOLOGY

ACADEMIC STAFF

Senior Lecturers:

G.A.A.A. Frimpong

FACHARZT (Germany), MBChB

A.T. Amankwah	FWACS, Cert., MBChB
A. Badu – Peprah	FWACS, MBChB
J.A. Quansah	MGCP, MBChB
K. Ankomah	MGCP, MBChB

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asafu Adjaye Frimpong, G., Aboagye, E., Asafu-Adjaye Frimpong, A., Coleman, N. E., Amankwah, P., and Quansah, A. (2020). CT-Guided Percutaneous Laser Disc Decompression for Lumbar Discogenic Radiculopathy-Performance of a Novel Combi-Therapy. *Lasers in surgery and medicine*, 52(5), 419-423.
2. Frimpong, G.A.A., Aboagye, E., Ayisi-Boateng, N.K., Antwi, K., Bawuah, K.A., Coleman, N.E., Nunoo, A.W., Danso, D.B., Amoah, M., and Kwofie, B. (2019). Concurrent occurrence of a wandering spleen, organoaxial gastric volvulus, pancreatic volvulus, and cholestasis–A rare cause of an acute abdomen. *Radiology case reports*, 14(8), 946-951.
3. Frimpong, G.A.A., Aboagye, E., Amankwah, P., Coleman, N.E., and Abaidoo, N.K. (2019). Short-duration post CT-guided thoracic biopsy monitoring-clinical experience with 440 patients. *Journal of medical radiation sciences*, 66(2), 91-95.
4. Annan, J.J., Larsen-Reindorf, R.E., Frimpong, G.A., and Owusu-Afriyie, O. (2019). Endometriosis: An “Unexplored”, “Neglected” or “Forgotten” Condition in Africa? *Open Journal of Obstetrics and Gynecology*, 9(1), 29-41.
5. Badu-Peprah, A., Adu-Bredu, T. K., and Adu-Takyi, C. (2020). The role of multimodality radiological imaging in extrauterine misplaced IUCD: A case report. *African Journal of Reproductive Health*, 24(4), 213.
6. Appiah, K.A.A., Gyasi-Sarpong, C.K., Yenli, E.M., Maison, P.O.M., Adofu, C.K., Amoah, G., Azorliade, R., Mintah, D.A., and Badu-Peprah, A. (2020). Dorsal Onlay Oral Mucosa Graft Urethroplasty: A Case Report and Review of Literature. *Case Reports in Urology*, 2020.
7. Bonsu, F., Addo, K.K., Alebachew, Z., Gyapong, J., Badu-Peprah, A., Gockah, R., Hanson-Nortey, N.N., Law, I., Tadolini, M., Onozaki, I., and Sismanidis, C. (2020). National population-based tuberculosis prevalence survey in Ghana, 2013. *The International Journal of Tuberculosis and Lung Disease*, 24(3), 321-328.

CONFERENCE PAPERS/PROCEEDINGS

1. Frimpong, G.A.A., Aboagye, E., Amankwah, P., and Abaidoo, N.K. (2019). Post procedural patient monitoring for CT-guided thoracic biopsies-safety of a novel approach. European Congress of Radiology 2019.

BOOK CHAPTER CONTRIBUTION

1. Frimpong, G.A.A., Aboagye, E., and Frimpong, A.A.A. (2019). Diagnostic Potential of Imaging Modalities in the Assessment of Lower Urinary Tract Dysfunctions. In Lower Urinary Tract Dysfunction-From Evidence to Clinical Practice. IntechOpen.

DEPARTMENT OF ANATOMY

ACADEMIC STAFF LIST

Professors:

C.S. Abaidoo	BSc, MSc (Kumasi), PhD, MASBI (UK) FWACM
M.A Warren	BSc, PhD, FASBI (UK)
S. Stensas	BA, MA, PG.Cert, PhD (US)
D. Morton	BS, MS, PhD (USA)

Associate Professors:

F. K. Addai	BSc (Leg), PhD, Cert (UK) FWACM
-------------	---------------------------------

Senior Lecturers

J. Ahenkora	BSc, Dip.Ed (Cape Coast), MPhil (Legon), PhD (UK), FWACM
-------------	--

Lecturers

J. Tetteh	BSc (Navrongo), MPhil (Kumasi)
T. K. Diby	BSc (Cape Coast), MPhil (Kumasi)
F. Aitpillah	BSc (Legon), MB.ChB (Legon), FWACS
B. A. Hottor	BSc, MB.ChB (Legon), PhD (UK)

Assistant Lecturers

P-P Wepeba	BSc (Kumasi), MSc (UK)
A.K. Appiah	BSc (Cape Coast), MPhil (Kumasi)
N.D. Darko	BSc (Cape Coast), MPhil (Kumasi)
C. Adjei-Antwi	BSc (Cape Coast), MPhil (Kumasi)
J. Nketsiah	BSc, MPhil (Kumasi)
R. Awoonor-Williams	BSc, MB.ChB, MPhil (Kumasi)
S. Gomina Sie	BSc, MB.ChB (Kumasi), MWACS
R. Agyei Boakye	BSc, MPhil (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Brown, A.A., Derkyi-Kwarteng, L., Abaidoo, C. S. (2020). The Effect of Malaria-Induced Serum Tumour Necrosis Factor-Alpha on Epiphyseal Bone Formation of Rats. *Acta Medica International*, 7(1), 39-43.
2. Okwan, D. K., Abaidoo, C. S., Tetteh, J. and Kusi, A. (2020). Forensic Application of Hand and Foot Biometrics as Models for Height, Weight and Sex Determination among Ghanaians. *International Journal of Anatomy and Research*, 8(2.3), 7531-7538.
3. Eric, F., Abaidoo, C.S., Appiah, A.K. and Tetteh, J. (2020). Morphological Study of the External Ear among the Dagaabas in the Upper West Region of Ghana. *Scientific African*, e00408.
4. Bimpong, S., Abaidoo, C.S., Kusi, A.A. and Tetteh, J. (2020). Association of Maternal Sociodemographic Characteristics and Prepregnancy Biometric Indices with Birth Weight Outcome among Ghanaian Women in the Kumasi Metropolis. *International Journal of Anatomy and Research*, 8(3.1), 7579-7588.
5. Lasong, J., Zhang, Y., Gebremedhin, S.A., Opoku, S., Abaidoo, C.S., Mkandawire, T., Zhao, K., and Zhang, H. (2020). Determinants of modern contraceptive use among married women of reproductive age: a cross-sectional study in rural Zambia. *BMJ open*, 10(3), e030980.
6. Lasong, J., Zhang, Y., Muyayalo, K.P., Njiri, O.A., Gebremedhin, S.A., Abaidoo, C.S., Liu, C.Y., Zhang, H., and Zhao, K. (2020). Domestic violence among married women of reproductive age in Zimbabwe: a cross sectional study. *BMC public health*, 20(1), 1-11.

7. Tetteh, J., Abaidoo, C. S., Darko, N. D. and Diby, T. (2019). Gross Morphometric Assessment of the Human Placenta with Reference to Neonatal Indices. *International Journal of Anatomy and Research*, 7(2.1), 6450-6455.
8. Bimpong, S., Abaidoo, C. S., Tetteh, J. and Atuahene, O.O.D. (2019). Morphometric Characterization of Umbilical Cord Vessels and Neonatal Outcome. *International Journal of Anatomy and Research*, 7(1.1), 6050-6058.
9. Maalman, R.S.E., Abaidoo, C.S., Darko, N.D. and Tetteh, J. (2019). Facial Types and Morphology: A study among Sisaala and Dagaaba adult population in the Upper West Region, Ghana. *Scientific African*, e00071.

DEPARTMENT OF PHYSIOLOGY

ACADEMIC STAFF

Professor:

E.T. Agbenyega

Senior Lecturer:

K. Bedu-Addo

Lecturers:

E.A. Ntim

L. Sallah

Assistant Lecturers:

E.A. Many

F. Opoku

G.M. Amposah

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Ackerman, H., Ayestaran, A., Olola, C.H., Jallow, M., Agbenyega, T., Bojang, K., Roberts, D.J., Krishna, S., Kremsner, P.G., Newton, C.R., and Taylor, T. (2020). The effect of blood transfusion on outcomes among African children admitted to hospital with *Plasmodium falciparum* malaria: a prospective, multicentre observational study. *The Lancet Haematology*, 7(11), e789-e797.

2. Postels, D.G., Osei-Tutu, L., Seydel, K.B., Xu, Q., Li, C., Taylor, T.E., John, C.C., Mallewa, M., Solomon, T., Agbenyega, T., and Ansong, D. (2020). Central Nervous System Virus Infection in African Children with Cerebral Malaria. *The American journal of tropical medicine and hygiene*, 103(1), 200-205.
3. Asante, K.P., Ansong, D., Kaali, S., Adjei, S., Lievens, M., Badu, L.N., Darko, P.A., Buabeng, P.B.Y., Boahen, O., Rettig, T.M., and Agutu, C. (2020). Immunogenicity and safety of the RTS, S/AS01 malaria vaccine co-administered with measles, rubella and yellow fever vaccines in Ghanaian children: A phase IIIb, multi-center, non-inferiority, randomized, open, controlled trial. *Vaccine*, 38(18), 3411-3421.
4. Valéa, I., Adjei, S., Usuf, E., Traore, O., Ansong, D., Tinto, H., Owusu Boateng, H., Some, A.M., Buabeng, P., Vekemans, J., and Kotey, A. (2020). Long-term immunogenicity and immune memory response to the hepatitis B antigen in the RTS, S/AS01E malaria vaccine in African children: a randomized trial. *Human vaccines & immunotherapeutics*, 16(6), 1464-1470.
5. Guerra Mendoza, Y., Garric, E., Leach, A., Lievens, M., Ofori-Anyinam, O., Pirçon, J.Y., Stegmann, J.U., Vandoolaeghe, P., Otieno, L., Otieno, W. and Owusu-Agyei, S. (2019). Safety profile of the RTS, S/AS01 malaria vaccine in infants and children: additional data from a phase III randomized controlled trial in sub-Saharan Africa. *Human vaccines & immunotherapeutics*, 15(10), 2386-2398.
6. Network, M.G.E. (2019). Insights into malaria susceptibility using genome-wide data on 17,000 individuals from Africa, Asia and Oceania. *Nature communications*, 10.
7. Scheu, K., Adegnik, A.A., Addo, M.M., Ansong, D., Cramer, J.P., Fürst, S., Kreamsner, P.G., Kurth, F., Jacobs, T., May, J., and Ramharter, M. (2019). Determinants of post-malarial anemia in African children treated with parenteral artesunate. *Scientific reports*, 9(1), 1-8.
8. Velavan, T. P., Nderu, D., Agbenyega, T., Ntoumi, F., and Kreamsner, P. G. (2019). An alternative dogma on reduced artemisinin susceptibility: A new shadow from east to west. *Proceedings of the National Academy of Sciences*, 116(26), 12611-12612.
9. Guerra Mendoza, Y., Garric, E., Leach, A., Lievens, M., Ofori-Anyinam, O., Pirçon, J.Y., Stegmann, J.U., Vandoolaeghe, P., Otieno, L., Otieno, W., and Owusu-Agyei, S. (2019). Safety profile of the RTS, S/AS01 malaria vaccine in infants and children: additional data from a phase III randomized controlled trial in sub-Saharan Africa. *Human vaccines & immunotherapeutics*, 15(10), 2386-2398.

10. Awuah, S.P., Okai, I., Ntim, E.A., and Bedu-Addo, K. (2020). Prevalence, placenta development, and perinatal outcomes of women with hypertensive disorders of pregnancy at Komfo Anokye Teaching Hospital. *Plos one*, 15(10), e0233817.
11. Atta Manu, E., Bedu-Addo, K., Titiloye, N. A., Ameh-Mensah, C., Opoku, F., and Duduyemi, B. M. (2020). Expression of tumour-associated MUC1 is a poor prognostic marker in breast cancer in Kumasi, Ghana. *Journal of oncology*, 2020.
12. Bedu-Addo, K., Ephraim, R.K., Tanoë-Blay, C., Ahenkorah-Fondjo, L., Osei-Darkwah, K., Ephraim, M., Kontoh, K.A., and Abaka-Yawson, A. (2020). Prevalence and associated factors of fetal macrosomia in a rural community in Ghana. *Cogent Medicine*, 7(1), 1746602.
13. Fei, N., Bernabé, B.P., Lie, L., Baghdan, D., Bedu-Addo, K., Plange-Rhule, J., Forrester, T.E., Lambert, E.V., Bovet, P., Gottel, N., and Riesen, W. (2019). The human microbiota is associated with cardiometabolic risk across the epidemiologic transition. *PloS one*, 14(7), e0215262.
14. Agyepong, E., and Bedu-Addo, K. (2019). Semen parameters and the incidence and effects of bacteriospermia in male partners of infertile couples attending a fertility clinic in the Kumasi Metropolis, Ghana. *Int J Reprod Contracept Obstet Gynecol*. 8(1):99-107

DEPARTMENT OF SURGERY

ACADEMIC STAFF

Professor:

P. Donkor	FRACDS, FWACS, FGCS, DDPHRCS, MD, Eng, MSc, BDS
-----------	---

Associate Professors:

K.C. Gyasi-Sarpong	FWACS, FGCS, FICS, MBChB, BSc, BSc (Kumasi)
R.E. Quansah	PhD, FGCS, MD, Cert
P. Agbenorku	PhD, FPCS, FICS, FWACS, FGCS, MD
A. Gyedu	FGCS, MPH, MD, Cert

Senior Lecturers:

E.J.K. Adu	FWACS, FGCS, MB ChB, BSc
J. Akpaloo	FACH, FGCS, MD
J. Yorke	FACH, FGCS, MD
P. Konadu	FACH, FGCS, MB ChB, BSc
I. Okyere	FWACS, FGCS, BSc
I. Kyei	
M. Adinku	
A.A. Appiah	
A. Yifeyeh	
D. Konadu-Yeboah	
P.E. Hoyte-Williams	

Lecturers:

F.S. Aitpillah	FWACS, FGCS, MB ChB
----------------	---------------------

Part-time Lecturers:

C.K. Dally
O. Owusu-Danso
E. Palmer-Amaning
R. Azorliade
M. Amoah
V. Ativor
R. Quartey
P. Fiifi-Yankson
M. Opoku

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Otu-Boateng, K., Amoah, G., Appiah, K.A.A., Azorliade, R., Gyasi-Sarpong, C.K., Maison, P.O.M., Togbe, S.K., Addae, J.B., Adofo, C.K., Antwi, I.O. and Twumasi-Frimpong, B. (2020). Analysis of Adult Nephrectomies at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Open Journal of Urology*, 10(4): 93-100.
2. Gyasi-Sarpong, C.K, Maison, P.O.M., Adofo, K., Dally, C.K., Azorliade, R., Appiah, K.A.A, Kyei, I., Amoah, M., Amoah, G., Sagoe, R., Otu-Boateng, K., Yifeyeh, A.C., Nimako, B., Yorke, J., Adinku, M.O., Aitpillah, F.S., Akuoko-Darkwah, D., Frimpong-Twumasi, B., Agbeko, A.E., Gyamfi, E.F., Oppong, J. (2020). Default to elective surgery appointment at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Medicine and Medical Sciences*. 8(2): 014-017.
3. Gyasi-Sarpong, C.K., Maison, P.O.M., Adofo, K., Azorliade, R., Arhin, K.A., Amoah, G. (2020). Metabolic syndrome abnormalities and upper urinary tract stone opacity among patients in Kumasi, Ghana. *Med. Med. Sci*. 8(3): 022-025.
4. Appiah, K., Gyasi-Sarpong, C. K., Yenli, E., Maison, P., Adofo, C. K., Amoah, G., Azorliade, R., Mintah, D. A., & Badu-Peprah, A. (2020). Dorsal Onlay Oral Mucosa Graft Urethroplasty: A Case Report and Review of Literature. *Case reports in urology*, 2020, 8822007.
5. Dzomeku, V. M., Mensah, A. B. B., Nakua, E. K., Agbadi, P., Lori, J. R., & Donkor, P. (2020). "I wouldn't have hit you, but you would have killed your baby:" exploring midwives' perspectives on disrespect and abusive Care in Ghana. *BMC Pregnancy and Childbirth*, 20(1): 1-12.
6. Gyedu, A., Stewart, B., Gaskill, C., Salia, E., Wadie, R., Abantanga, F., Donkor, P. and Mock, C. (2020). A Nationwide Enumeration of Operations Performed for Pediatric Patients in Ghana. *European Journal of Pediatric Surgery*, 31(02): 199-205.
7. Budu-Ainooson, A., Nakua, E. K., Donkor, P., Mock, C., and Kernic, M. A. (2019). Use of support services and help-seeking behaviors among abused Ghanaian women with disabilities. *Journal of family violence*, 1-12.
8. Gyedu, A., Stewart, B., Gaskill, C., Donkor, P., Quansah, R., and Mock, C. (2020). Benchmarking Global Trauma Care: Defining the Unmet Need for Trauma Surgery in Ghana. *Journal of Surgical Research*, 247: 280-286.
9. Gyedu, A., Lester, L., Stewart, B., Danso, K., Salia, E., Quansah, R., Donkor, P., and Mock, C. (2019). Estimating obstetric and gynecologic surgical rate: A

benchmark of surgical capacity building in Ghana. *International Journal of Gynecology & Obstetrics*, 148(2): 205-209.

10. Gyedu, A., Stewart, B., Wadie, R., Antwi, J., Donkor, P., and Mock, C. (2019). Population based rates of hernia surgery in Ghana. *Hernia*, 1-7.
11. Damsere-Derry, J., Ebel, B. E., Mock, C. N., Afukaar, F., Donkor, P., and Kalowole, T. O. (2019). Evaluation of the effectiveness of traffic calming measures on vehicle speeds and pedestrian injury severity in Ghana. *Traffic injury prevention*, 20(3): 336-342.
12. Acheampong, A.O., Newman-Nartey, M., Obiri-Yeboah, S., Mensah, J., Amuasi, A., Sabbah, D., Olesu, J., Asamoah, E.E., Larmie, R.N.L. and Donkor, P. (2019). Motorcycle Related Oral and Maxillofacial Injuries Seen at Komfo Anokye Teaching Hospital, Kumasi-Ghana. *Surgical Science*, 10(03): 106.
13. Acheampong, A.O., Anafi, F.A., Gyimah, N.T.A., Amuasi, A., Obiri-Yeboah, S., Sabbah, D.K., Nyarko, A., Nartey, M.N., Ampofo, P., Ankoh, S. and Abu-Sakyi, J. (2019). The Perspectives of Kwame Nkrumah University of Science and Technology Dental School Graduates. *Open Journal of Stomatology*, 8(05): 158.
14. Butali, A., Mossey, P.A., Adeyemo, W.L., Eshete, M.A., Gowans, L.J., Busch, T.D., Jain, D., Yu, W., Huan, L., Laurie, C.A. and Laurie, C.C. (2019). Genomic analyses in African populations identify novel risk loci for cleft palate. *Human molecular genetics*, 28(6): 1038-1051.
15. Gyedu, A., Debrah, S., Agbedinu, K., Goodman, S. K., Plange-Rhule, J., Donkor, P., and Mock, C. (2019). In-country training by the Ghana College of physicians and surgeons: an initiative that has aided surgeon retention and distribution in Ghana. *World journal of surgery*, 43(3): 723-735.
16. Budu-Ainooson, A., Nakua, E. K., Donkor, P., Mock, C., & Kernic, M. A. (2019). Use of support services and help-seeking behaviors among abused Ghanaian women with disabilities. *Journal of family violence*, 1-12.
17. Konadu-Yeboah, D., Kwasi, K., Donkor, P., Gudugbe, S., Sampen, O., Okleme, A., Boakye, F.N., Osei-Ampofo, M., Okrah, H. and Mock, C. (2020). Preventable trauma deaths and corrective actions to prevent them: a 10-year comparative study at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *World Journal of Surgery*, 44(11): 3643-3650.
18. Gyedu, A., Stewart, B., Gaskill, C., Donkor, P., Quansah, R., & Mock, C. (2020). Benchmarking Global Trauma Care: Defining the Unmet Need for Trauma Surgery in Ghana. *Journal of Surgical Research*, 247: 280-286.

19. Alade, A.A., Buxo-Martinez, C.J., Mossey, P.A., Gowans, L.J., Eshete, M.A., Adeyemo, W.L., Naicker, T., Awotoye, W.A., Adeleke, C., Busch, T. and Toraño, A.M. (2020). Non-random distribution of deleterious mutations in the DNA and protein-binding domains of IRF6 are associated with Van Der Woude syndrome. *Molecular genetics & genomic medicine*, 8(8): e1355.
20. Gyedu, A., Lester, L., Stewart, B., Danso, K.A., Salia, E.L., Quansah, R., Donkor, P. and Mock, C. (2020). Estimating obstetric and gynecologic surgical rate: A benchmark of surgical capacity building in Ghana. *International Journal of Gynecology & Obstetrics*, 148(2): 205-209.
21. Gyedu, A., Stewart, B., Gaskill, C., Salia, E., Wadie, R., Abantanga, F., Donkor, P. and Mock, C. (2021). A Nationwide Enumeration of Operations Performed for Pediatric Patients in Ghana. *European Journal of Pediatric Surgery*, 31(02): 199-205.
22. Gyedu, A., Stewart, B., Gaskill, C., Salia, E., Wadie, R., Abantanga, F., Donkor, P. and Mock, C., 2021. A Nationwide Enumeration of Operations Performed for Pediatric Patients in Ghana. *European Journal of Pediatric Surgery*, 31(02): 199-205.
23. Gyedu, A., Lester, L., Stewart, B., Danso, K.A., Salia, E.L., Quansah, R., Donkor, P. and Mock, C. (2020). Estimating obstetric and gynecologic surgical rate: A benchmark of surgical capacity building in Ghana. *International Journal of Gynecology & Obstetrics*, 148(2): 205-209.
24. Katz, M. G., Tabiri, S., Gyedu, A., Price, R. R., & Abantanga, F. A. (2020). Patient Experience and Outcomes of the Locally Organized ApriDec Medical Outreach Group. *World journal of surgery*, 44(4), 1039-1044.
25. Gyedu, A., Stewart, B., Gaskill, C., Donkor, P., Quansah, R., and Mock, C. (2020). Benchmarking Global Trauma Care: Defining the Unmet Need for Trauma Surgery in Ghana. *Journal of Surgical Research*, 247: 280-286.
26. Roberson, J. L., Pham, J., Shen, J., Stewart, K., Hoyte-Williams, P. E., Mehta, K., Rai, S., Pedraza, J. M., Allorto, N., Pham, T. N., & Stewart, B. T. (2020). Lessons Learned from Implementation and Management of Skin Allograft Banking Programs in Low – and Middle-Income Countries: A Systematic Review. *Journal of burn care & research: official publication of the American Burn Association*, 41(6): 1271–1278.
27. Obirikorang, C., Opoku, S., Obirikorang, Y., Acheampong, E., Yorke, J., Donkoh, E., Chidera, C., Sarpong, D., Anto, E., Issahaku, R., Appeaning, M., Nelson, C., Batu, E., Amakwah, B., Asamoah, E., Amoah, B., & Afraine, B. (2019). Awareness and occupational exposures to needlestick injuries among healthcare workers: A quantitative assessment in a Ghanaian Metropolis. *Global Journal on Quality and Safety in Healthcare*, 2: 70 – 77.

28. Obirikorang, C., Acheampong, E., Quaye, L., Yorke, J., Amos-Abanyie, E. K., Akyaw, P. A., Anto, E. O., Bani, S. B., Asamoah, E. A., and Batu, E. N. (2020). Association of single nucleotide polymorphisms with dyslipidemia in antiretroviral exposed HIV patients in a Ghanaian population: A case-control study. *PLoS one*, 15(1): e0227779.
29. Awoonor-Williams, R., Turpin, C., Yorke, J., Sam-Awortwi Jnr, W., Adinku, M., Agbeko, A., Agbedinu, K., Asamoah, S., Vanderpuye, S., Prempeh, P., Asante, R., Ahulu, D., Yorke, D., and Acheampong, E. (2019). Two Cases of Gastroduodenal Perforation Following Cesarean Section. *Journal of Medical Cases*, 10(5): 129-134.
30. Konadu-Yeboah, D., Konadu, P., & Schumacher, Z. (2019). Bilateral Radial Club Hands at the Komfo Anokye Teaching Hospital, Kumasi, Ghana: A Case Report. *Journal of Preventive Medicine and Care*, 3(1): 10.
31. Konadu-Yeboah, D., Konadu, P., & Schumacher, Z. (2019). Bilateral Radial Club Hands At the Komfo Anokye Teaching Hospital, Kumasi, Ghana: A Case Report. *Journal of Preventive Medicine and Care*, 3(1), 10.
32. Konadu-Yeboah, D., Konadu, P., & Darkwa, A. (2019). Virtue Fiwokome Degaulle, Holdbrook Smith et al. (2019) Outcome Assessment of Open Foot Injuries in A Teaching Hospital in Ghana. *Journal of Preventive Medicine and Care*, 2(4): 14-22.
33. Okyere, I., Singh, S., Okyere, P., Gyan, B., Boateng, N. A., and Akowuah, E. (2020). The First Implantation of the Novel Biological Heart Valve, the Inspiris Resilia Aortic Tissue Valve in Africa. *Journal of Surgery*, 8(4): 136-139.
34. Singh, S., Okyere, I., and Mahrous, D. E. (2020). The effect of combined conventional and modified ultrafiltration on mechanical ventilation and hemodynamic changes in paediatric congenital heart surgery. *EAS journal of anaesthesiology and critical care*, 2(1): 30-39.
35. Singh, S., Zanwar, Y. N., and Okyere, I. (2020). Does Meticulous Blood Glucose Control During Cardiopulmonary Bypass Improves Outcome in Paediatric Patients? *EAS J Anesthesiol Crit Care*, 2(4): 151-159.
36. Okyere, I., Singh, S., Okyere, P., Brenu, S. G., and Amoabeng, S. K. (2020). Surgical Management of Herniated Intrathoracic Gastric Perforation in Traumatic Diaphragmatic Rupture: An Unusual Two Rare Cases. *Open Journal of Thoracic Surgery*, 10(2), 56-68.
37. Okyere, I., Singh, S., Okyere, P., Kusi, A., and Brenu, S. G. (2020). Cervical Oesophagotomy and Removal of an Impacted Oesophageal Denture: Case Report and Literature Review. *Surgical Science*, 11(7): 177-186.

38. Okyere, P., Okyere, I., Ephraim, R.K.D., Attakorah, J., Osafo, C., Arhin, B., Bachelie, S. and Abaka-Yawson, A. (2020). Spectrum and Clinical Characteristics of Renal Diseases in Ghanaian Adults: A 13-Year Retrospective Study. *International journal of nephrology*, 2020.
39. Okyere, I., Brenu, S. G., and Okyere, P. (2020). Lifesaving Emergency Sternotomy in Traumatic Cardiac Tamponade in a Teaching Hospital in Ghana: Survival of Two Rare Cases. *World Journal of Cardiovascular Surgery*, 10(3): 33-40.
40. Okyere, I., Brenu, S. G., and Okyere, P. (2020). Open Thoracic Surgery for Removal of a Two-Year-Old Impacted Esophageal Coin. *Open Journal of Thoracic Surgery*, 10(1), 32-40.
41. Bayard, S., Susick, L., Kyei, I., Chen, Y., Davis, M. B., Gyan, K., and Newman, L. A. (2020). Brief report: Global health initiatives and breast oncology capacity-building in Africa. *The American Journal of Surgery*, 219(4): 563-565.
42. Sarfo-Kantanka, O., Ansah, E. O., Kyei, I., & Barnes, N. A. (2020). Causes and predictors of mortality among Ghanaians hospitalised with endocrine disorders. *International health*, 12(2), 107–115. Agbeko, A. E., Arthur, J., Bayuo, J., Kaburi, B. B., & Kyei, I. (2020). Seeking healthcare at their ‘right’ time; the iterative decision process for women with breast cancer. *BMC cancer*, 20(1): 1-7.
43. Mensah, S., Maison, P. O. M., Kyei, I., Adjei, G. A., Morna, M. T., Debrah, S., & Rahman, G. A. (2020). Evaluation of External Abdominal Wall Hernia Surgery in a Secondary Level Facility in Kumasi, Ghana. *Journal of Advances in Medicine and Medical Research*, 1-7.
44. Gyasi-Sarpong, C. K., and Opoku, P. (2020). Default to elective surgery appointment at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Medicine and Medical Sciences*, 8(2): 014-017.

CONGERENCE PAPERS/PROCEEDINGS

1. Okyere, I. (2020). Surgical Management of Traumatic Diaphragmatic Rupture in Ghana: A 10-year experience at the Komfo Anokye Teaching Hospital: 60th Annual General Meeting and Scientific Conference of the West African College of Surgeons, Abuja International Conference Centre Plot 900, Herbert Macaulay Way Area 11, Garki, Abuja Nigeria, and 17th-20th February, 2020.
2. Okyere, I. (2020). Emergency Thoracic Surgery in Chest Trauma in a Teaching Hospital in Ghana: 5-year review of the Role of Sternotomy and

Thoracotomy: 60th Annual General Meeting and Scientific Conference of the West African College of Surgeons, Abuja International Conference Centre Plot 900, Herbert Macaulay Way Area 11, Garki, Abuja Nigeria, 17th-20th February, 2020.

3. Okyere, I. (2020). Management of Thoracic Impalement Injury in Ghana: A Five-Year Experience at the Komfo Anokye Teaching Hospital: 60th Annual General Meeting and Scientific Conference of the West African College of Surgeons, Abuja International Conference Centre Plot 900, Herbert Macaulay Way Area 11, Garki, Abuja Nigeria, 17th-20th February, 2020.
4. Okyere, I. (2020). Transition from Humanitarian Open Heart Surgery Mission to Local Independent Heart Surgery Service: The case of Komfo Anokye Teaching Hospital, Kumasi-Ghana. 60th Annual General Meeting and Scientific Conference of the West African College of Surgeons, Abuja International Conference Centre Plot 900, Herbert Macaulay Way Area 11, Garki, Abuja Nigeria, 17th-20th February, 2020.
5. Okyere, I. (2020). Ghana Leads in the First Implantation of the Novel Resilia Inspiris™ Aortic Tissue Valve in Africa (Poster): 60th Annual General Meeting and Scientific Conference of the West African College of Surgeons, 2020, Abuja International Conference Centre Plot 900, Herbert Macaulay Way Area 11, Garki, Abuja Nigeria, 17th-20th February, 2020.
6. Okyere, I. (2019). Surgical Management of Traumatic Diaphragmatic Rupture in Ghana: A 10-year experience at the Komfo Anokye Teaching Hospital. 1st Emergency Medicine Conference of the Emergency Society of Ghana (EMSOG); 2019. Golden Bean Hotel, Ahodwo, Kumasi-Ghana. 13TH – 15TH November, 2019
7. Okyere, I. (2019). Outcomes of Rare Cardiovascular and Thoracic Surgical Cases in Kumasi. 1st Emergency Medicine Conference of the Emergency Society of Ghana (EMSOG); 2019. Golden Bean Hotel, Ahodwo, Kumasi-Ghana. 13TH – 15TH November, 2019
8. Okyere, I. (2019). Emergency Sternotomy and Thoracotomy for Chest Trauma in Ghana: A 5-year Experience at the Komfo Anokye Teaching Hospital. 1st Emergency Medicine Conference of the Emergency Society of Ghana (EMSOG); 2019. Golden Bean Hotel, Ahodwo, Kumasi-Ghana. 13TH – 15TH November, 2019
9. Okyere, I. (2019). Emergency Surgery in Cardiac Tamponade. 1st Emergency Medicine Conference of the Emergency Society of Ghana (EMSOG); 2019. Golden Bean Hotel, Ahodwo, Kumasi-Ghana. 13TH-15TH November, 2019
10. Okyere, I., (2019). Management of Thoracic Impalement injury in Ghana: A five-year experience at Komfo Anokye Teaching Hospital (e-POSTER).

1st Emergency Medicine Conference of the Emergency Society of Ghana (EMSOG); 2019. Golden Bean Hotel, Ahodwo, Kumasi-Ghana. 13TH 15TH November, 2019

11. Okyere, I. (2019). Replantation of post-traumatic leg amputation in an adult in Ghana. 59th Annual Conference and Scientific Meeting of the West African College of Surgeons, Hotel King Fahd Palace, Dakar-Senegal. 21st – 24th January 2019
12. Okyere, I. (2019). Emergency exploratory sternotomy for penetrating chest injury in a teaching hospital in Ghana: Three Rare Cases. 59th Annual Conference and Scientific Meeting of the West African College of Surgeons, Hotel King Fahd Palace, Dakar-Senegal. 21st – 24th January 2019
13. Okyere, I. (2019). Post-traumatic right diaphragmatic rupture with hepatothorax: Report of two rare cases and literature review. 59th Annual Conference and Scientific Meeting of the West African College of Surgeons, Hotel King Fahd Palace, Dakar-Senegal. 21st – 24th January 2019
14. Okyere, I. (2019). Outcomes of rare cardiovascular and thoracic surgical cases in Ghana. 59th Annual Conference and Scientific Meeting of the West African College of Surgeons, Hotel King Fahd Palace, Dakar-Senegal. 21st – 24th January 2019
15. Okyere, I. (2019). Update of cardiovascular and thoracic surgical services at the Komfo Anokye Teaching Hospital, Ghana. 59th Annual Conference and Scientific Meeting of the West African College of Surgeons, Hotel King Fahd Palace, Dakar-Senegal. 21st – 24th January 2019.
16. Konadu-Yeboah D., Kusi K., Donkor P., Gudugbe S., Sampene O., Okleme A., Boakye NF, Osei-Ampofo M., Okrah H., Mock C. Preventable Trauma Deaths and Corrective Actions to Prevent Them: A 10-year Comparative Study at the Komfo Anokye Teaching Hospital, Kumasi, Ghana. *World Journal of Surgery*, July, 2020

BOOK CHAPTERS

1. Okyere, I. and Okyere, P. (2020). Open Thoracic Surgery for Removal of a Two-Year Old Impacted Esophageal Coin and Literature Update. *Current Topics in Medicine and Medical Research* Vol. 8. Book Publisher International. (Ed.). Khadiga Ahmed Ismail Eltris. Print ISBN: 978-93-90431-87-8, eBook ISBN: 978-93-90431-92-2, pp. 101-109.
2. of an Impacted Oesophageal Denture through Transcervical Oesophagotomy and Literature Review. *Current Topics in Medicine and Medical Research*

Vol. 8. Book Publisher International. (Ed.). Khadiga Ahmed Ismail Eltris. Print ISBN: 978-93-90431-87-8, eBook ISBN: 978-93-90431-92-2, pp. 110-118.

3. Okyere, I. and Okyere, P. (2020). Reporting Two Rare Cases of Surgical Management of Herniated Intrathoracic Gastric Perforation in Traumatic Diaphragmatic Rupture. Current Topics in Medicine and Medical Research Vol. 8. Book Publisher International. (Ed.). Khadiga Ahmed Ismail Eltris. Print ISBN: 978-93-90431-87-8, eBook ISBN: 978-93-90431-92-2, pp. 119-130.

BOOK

1. Plunge-Rhule, J., Larbi-Addo, W., Konadu-Yeboah, D., Odei-Ansong, F. (2019). Fracture Basics, Accra, Ghana.

DEPARTMENT OF CHILD ORAL HEALTH AND ORTHODONTICS

ACADEMIC STAFF

Senior Lecturers:

A.A. Amuasi	FGCS, BDS
D.K. Sabbah	FGCS, BDS

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Amuasi, A. A., Acheampong, A. O., Anarfi, E., Sagoe, E. S., Poku, R. D., and Abu-Sakyi, J. (2020). Effect of Malocclusion on Quality of Life among Persons Aged 7-25 Years: A Cross-Sectional Study. Journal of Biosciences and Medicines, 8(08), 26.
2. Amuasi, A. A., Acheampong, A. O., Owusu, S., Larmie, R., Sabbah, D. K., Buabeng, A. R., and Dompey, D. E. (2020). Evaluation of the Golden Proportion in Patients Visiting the Oral Health Directorate of the Komfo Anokye Teaching Hospital, Kumasi. Journal of Biosciences and Medicines, 8(08), 116.
3. Amuasi, A. A., Acheampong, A. O., Kokuro, C., Ofori, A., Yayra, K., Abu-Sakyi, J., & Adu-Ababio, F. (2020). Bacteriology and Antibiotic Sensibility Associated with Extracted Carious Teeth: A Cross Sectional Study at Komfo Anokye Teaching Hospital, Kumasi, Ghana. Open Journal of Stomatology, 10(05), 87.

DEPARTMENT OF ORAL AND MAXILLOFACIAL SCIENCES

ACADEMIC STAFF

Senior Lecturer:

A.O. Acheampong BSc, BDS, LLB, PostDoc. (US), FGCS

Lecturer:

S. Obiri–Yeboah BSc, BDS, FGCS

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Amuasi, A. A., Acheampong, A. O., Kokuro, C., Ofori, A., Yayra, K., Abu-Sakyi, J., and Adu-Ababio, F. (2020). Bacteriology and Antibiotic Sensibility Associated with Extracted Carious Teeth: A Cross Sectional Study at Komfo Anokye Teaching Hospital, Kumasi, Ghana. *Open Journal of Stomatology*, 10(05), 87.
2. Amuasi, A. A., Acheampong, A. O., Owusu, S., Larmie, R., Sabbah, D. K., Buabeng, A. R., and Dompey, D. E. (2020). Evaluation of the Golden Proportion in Patients Visiting the Oral Health Directorate of the Komfo Anokye Teaching Hospital, Kumasi. *Journal of Biosciences and Medicines*, 8(08), 116.
3. Owusu-Afriyie, O., Owiredu, W.K.B.A., Oti, A.A., Acheampong, E., Owusu-Danquah, K., Larsen-Reindorf, R., Fondjo, L.A., Adu, E.A., Donkor, S. and Donkor, P. (2020). Survival rates of head and neck cancers in Ghana: a retrospective study at the Komfo Anokye Teaching Hospital. *BMC Research Notes*, 13(1), 1-3.
4. Acheampong, A.O., Kokuro, C., Obiri-Yeboah, S., Osei-Bonsu, F., Tormeti, N., Larmie, R.N.L., Gyimah, N.T.A., Anarfi, F., Obeng, C.A., Pouzaa, B. and Mensah, J.K. (2019). Conditions associated with severe orofacial infections: The kath experience. *East African Medical Journal*, 96(5).
5. Hardy, Y.O., Amenuke, D.A., Abukari, Y., Oti-Acheampong, A., Hutton-Mensah, K., Amoah-Dankwah, J., Amoabeng Kontoh, S., Danso, K.A., Berchie, P.O. and Otu-Ansah, C. (2021). Clinical presentations and outcomes of COVID-19 infection in sickle cell disease patients: Case series from Komfo Anokye teaching hospital, Ghana. *Clinical Case Reports*, 9(2), 1018-1023.

KUMASI CENTRE FOR COLLABORATIVE RESEARCH (KCCR)

ACADEMIC STAFF

Professors:

Y. Adu-Sarkodie	PhD, FWACP, FRCP, FGCPs, MBChB, BSc (Kumasi)
E. Owusu-Dabo	PhD, FGCPs, MBChB, BSc (Kumasi)
R. O. Phillips	PhD, FWACP, FGCPs, MBChB, BSc (Kumasi)
A.Y. Debrah	PhD, MPhil, BSc (Kumasi)

Senior Lecturer:

L. Debrah	PhD, MPhil, BSc (Kumasi)
Y. A. Amoako	FWACP, FGCPs, MBChB, BSc (Kumasi)
J. Amuasi	PhD, MBChB, BSc (Kumasi)
A. Sylverken	PhD, MPhil, BSc (Kumasi)
A. Kwarteng	PhD, MPhil, BSc (Kumasi)
K. Badu	PhD, BSc (Kumasi)

Lecturers:

M. Owusu	PhD, MPhil, BSc, (Kumasi)
S. Pandam	PhD, BSc (Kumasi)
M. Frimpong	PhD, BSc (Kumasi)
A. Afum-Adjei Awuah	PhD, BSc (Kumasi)

##Post-doctoral Scientists

O. Maiga-Ascofare	PhD, BSc
T. Binger	PhD, BSc
J. Osei-Mensah	PhD, BSc (Kumasi)

Research Scientist

N. Sarpong	MBChB
------------	-------

##Principal Investigators not associated with other departments at KNUST

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Phillips RO, Robert J, Abass KM, Thompson W, Sarfo FS, Wilson T, Sarpong G, Gateau T, Chauty A, Omollo R, Ochieng Otieno M, Egondi TW, Ampadu EO, Agossadou D, Marion E, Ganlonon L, Wansbrough-Jones M, Grosset J, Macdonald JM, Treadwell T, Saunderson P, Paintsil A, Lehman L, Frimpong M, Sarpong NF, Saizonou R, Tiendrebeogo A, Ohene SA, Stienstra Y, Asiedu KB, van der Werf TS; study team. (2020) Rifampicin and clarithromycin (extended release) versus rifampicin and streptomycin for limited Buruli ulcer lesions: a randomised, open-label, non-inferiority phase 3 trial. *Lancet* (London, England) 395(10232):1259-1267
2. Wadagni AC, Steinhorst J, Barogui YT, Catraye PM, Gnimavo R, Abass KM, Amofa G, Frimpong M, Sarpong FN, van der Werf TS, Phillips R. (2019). Buruli ulcer treatment: Rate of surgical intervention differs highly between treatment centers in West Africa. *PLoS neglected tropical diseases*. 13(10).
3. Stienstra Y, Beeres DT, Phillips R, Vonk M, Ravensbergen SJ. (2019). The public health control of scabies: priorities for research and action. *Lancet* (London, England). 394(10214):2068.
4. Frimpong M, Ahor HS, Sakyi SA, Agbavor B, Akowuah E, Phillips RO. (2019). Rapid Extraction Method of Mycobacterium ulcerans DNA from Clinical Samples of Suspected Buruli Ulcer Patients. *Diagnostics* 9(4):204.
5. Seyfarth J, Sarfo-Kantanka O, Rosenbauer J, Phillips RO, Jacobsen M. (2019) Type-1 diabetes onset age and sex differences between Ghanaian and German urban populations. *Journal of diabetes*. 11(12):1002-1004.
6. Di Cristanziano V, D Alfonso R, Berrilli F, Sarfo FS, Santoro M, Fabeni L, Knops E, Heger E, Kaiser R, Dompok A, Phillips RO, Norman B, Feldt T, Eberhardt KA. (2019). Lower prevalence of Blastocystis sp. infections in HIV positive compared to HIV negative adults in Ghana. *PLoS One*. 14(9): e0221968.
7. Frimpong M, Agbavor B, Duah MS, Loglo A, Sarpong FN, Boakye-Appiah J, Abass KM, Dongyele M, Amofa G, Tuah W, Frempong M, Amoako YA, Wansbrough-Jones M, Phillips RO. (2019). Paradoxical reactions in Buruli ulcer after initiation of antibiotic therapy: Relationship to bacterial load. *PLoS Negl Trop Dis*. 13(8): e0007689.
8. Simpson H, Deribe K, Tabah EN, Peters A, Maman I, Frimpong M, Ampadu E, Phillips R, Saunderson P, Pullan RL, Cano J. (2019). Mapping the global distribution of Buruli ulcer: a systematic review with evidence consensus. *Lancet Glob Health*. 7(7): e912-e922.

9. Adankwah E, Güler A, Mayatepek E, Phillips RO, Nausch N, Jacobsen M. (2019) CD27 expression of T-cells discriminates IGRA-negative TB patients from healthy contacts in Ghana. *Microbes Infect.* 22(1):65-68.
10. Amoako YA, Frimpong M, Awuah DO, Plange-Rhule G, Boakye-Yiadom E, Agbavor B, Sarpong F, Ahor H, Adu E, Danso KG, Abass MK, Asiedu K, Wansbrough-Jones M, Phillips RO. (2019) Providing insight into the incubation period of *Mycobacterium ulcerans* disease: two case reports. *J Med Case Rep.* 13(1):218.
11. Adankwah E, Lundtoft C, Güler A, Franken KL, MC, Ottenhoff THM, Mayatepek E, Owusu-Dabo E, Phillips RO, Nausch N, Jacobsen M. (2019). Two-Hit in vitro T-Cell Stimulation Detects *Mycobacterium tuberculosis* Infection in QuantiFERON Negative Tuberculosis Patients and Healthy Contacts From Ghana. *Front Immunol.* 10:1518.
12. Batsa Debrah L, Phillips RO, Pfarr K, Klarmann-Schulz U, Opoku VS, Nausch N, Owusu W, Mubarik Y, Sander AL, Lämmer C, Ritter M, Layland LE, Jacobsen M, Debrah AY, Hoerauf A. (2019) The Efficacy of Doxycycline Treatment on *Mansonella perstans* Infection: An Open-Label, Randomized Trial in Ghana. *Am J Trop Med Hyg.* 101(1):84-92.
13. Awua-Boateng NY, Mohammed A, Aglanu LM, Acheampong G, Amuasi JH, Bonsu FA, Phillips RO, Owusu-Dabo E. (2019) Is pulmonary tuberculosis in pregnant women a problem in Ghana? Observations and lessons from the national tuberculosis prevalence project. *Int J Mycobacteriol.* 8(3):267-272.
14. Asare R, Opoku-Okrah C, Danquah KO, Opare-Sem O, Addai-Mensah O, Gyamfi D, Amponsah FA, Afriyie EY, Duneeh RV, Ofosu DN, Frimpong M. (2019). Expression of platelet parameters and platelet membrane glycoproteins in childhood Burkitt lymphoma. *Leuk Res.* 84:106189.
15. Struck NS, Zimmermann M, Krumkamp R, Lorenz E, Jacobs T, Rieger T, Wurr S, Günther S, Gyau Boahen K, Marks F, Sarpong N, Owusu-Dabo E, May J, Eibach D. (2019) Cytokine profile distinguishes children with *P. falciparum* malaria from those with bacterial blood stream infections. *J Infect Dis.* 221(7):1098-1106.
16. Toy T, Pak GD, Duc TP, Campbell JI, El Tayeb MA, Von Kalckreuth V, Im J, Panzner U, Cruz Espinoza LM, Eibach D, Dekker DM, Park SE, Jeon HJ, Konings F, Mogeni OD, Cosmas L, Bjerregaard-Andersen M, Gasmelseed N, Hertz JT, Jaeger A, Krumkamp R, Ley B, Thriemer K, Kabore LP, Niang A, Raminosa TM, Sampo E, Sarpong N, Soura A, Owusu-Dabo E, Teferi M, Yeshitela B, Poppert S, May J, Kim JH, Chon Y, Park JK, Aseffa A, Breiman RF, Schütt-Gerowitt H, Aaby P, Adu-Sarkodie Y, Crump JA, Rakotozandrainy R, Meyer CG, Sow AG, Clemens JD, Wierzba TF, Baker S, Marks F. (2019)

Multicountry Distribution and Characterization of Extended-spectrum β -Lactamase-associated Gram-negative Bacteria From Bloodstream Infections in Sub-Saharan Africa. *Clin Infect Dis.* 69(Supplement_6): S449-S458.

17. Aldrich C, Hartman H, Feasey N, Chattaway MA, Dekker D, Al-Emran HM, Larkin L, McCormick J, Sarpong N, Le Hello S, Adu-Sarkodie Y, Panzner U, Park SE, Im J, Marks F, May J, Dallman TJ, Eibach D. (2019) Emergence of phylogenetically diverse and fluoroquinolone resistant *Salmonella* Enteritidis as a cause of invasive nontyphoidal *Salmonella* disease in Ghana. *PLoS Negl Trop Dis.* 20;13(6): e0007485.
18. Eibach D, Hogan B, Sarpong N, Winter D, Struck NS, Adu-Sarkodie Y, Owusu-Dabo E, Schmidt-Chanasit J, May J, Cadar D. (2019). Viral metagenomics revealed novel betatorquevirus species in pediatric inpatients with encephalitis/meningoencephalitis from Ghana. *Sci Rep.* 20;9(1):2360.
19. Owusu M, Acheampong G, Annan A, Marfo KS, Osei I, Amuasi J, Sarpong N, Im J, Mogeni OD, Chiang HY, Kuo CH, Jeon HJ, Panzner U, Park SE, Marks F, Owusu-Dabo E, Adu-Sarkodie Y. (2019). *Ralstonia mannitolilytica* sepsis: a case report. *J Med Case Rep.* 26;13(1):318.
20. Park SE, Toy T, Cruz Espinoza LM, Panzner U, Mogeni OD, Im J, Poudyal N, Pak GD, Seo H, Chon Y, Schütt-Gerowitt H, Mogasale V, Ramani E, Dey A, Park JY, Kim JH, Seo HJ, Jeon HJ, Haselbeck A, Conway Roy K, MacWright W, Adu-Sarkodie Y, Owusu-Dabo E, Osei I, Owusu M, Rakotozandrindrainy R, Soura AB, Kabore LP, Teferi M, Okeke IN, Kehinde A, Popoola O, Jacobs J, Lunguya Metila O, Meyer CG, Crump JA, Elias S, MacLennan CA, Parry CM, Baker S, Mintz ED, Breiman RF, Clemens JD, Marks F. (2019) The Severe Typhoid Fever in Africa Program: Study Design and Methodology to Assess Disease Severity, Host Immunity, and Carriage Associated With Invasive Salmonellosis. *Clin Infect Dis.* 30;69 (Supplement_6): S422-S434.
21. Acheampong G, Owusu M, Owusu-Ofori A, Osei I, Sarpong N, Sylverken A, Kung HJ, Cho ST, Kuo CH, Park SE, Marks F, Adu-Sarkodie Y, Owusu-Dabo E. Chromosomal and plasmid-mediated fluoroquinolone resistance in human *Salmonella enterica* infection in Ghana. (2019) *BMC Infect Dis.* 28;19 (1):898.
22. Eibach D, Nagel M, Lorenzen S, Hogan B, Belmar Campos C, Aepfelbacher M, Sarpong N, May J. (2019) Extended-spectrum β -lactamase-producing Enterobacteriaceae among geckos (*Hemidactylus brookii*) in a Ghanaian hospital. *Clin Microbiol Infect.* 25(8):1048-1050.
23. Dekker D, Eibach D, Boahen KG, Akenten CW, Pfeifer Y, Zautner AE, Mertens E, Krumkamp R, Jaeger A, Flieger A, Owusu-Dabo E, May J. (2019)

Fluoroquinolone-Resistant *Salmonella enterica*, *Campylobacter* spp., and *Arcobacter butzleri* from Local and Imported Poultry Meat in Kumasi, Ghana. *Foodborne Pathog Dis.* 16(5):352-358.

24. Falgenhauer L, Imirzalioglu C, Oppong K, Akenten CW, Hogan B, Krumkamp R, Poppert S, Levermann V, Schwengers O, Sarpong N, Owusu-Dabo E, May J, Eibach D. (2019) Detection and Characterization of ESBL-Producing *Escherichia coli* From Humans and Poultry in Ghana. *Front Microbiol.* 15; 9:3358.
25. Frickmann H, Wiemer DF, Wassill L, Hinz R, Rojak S, Wille A, Loderstädt U, Schwarz NG, von Kalkcreuth V, Im J, Jin Jeon H, Marks F, Owusu-Dabo E, Sarpong N, May J, Eibach D, Dekker D. (2019) Loop-mediated isothermal amplification-based detection of typhoid fever on an automated Genie II Mk2 system – A case-control-based approach. *Acta Trop.* 190:293-295.
26. Tett A, Huang KD, Asnicar F, Fehlner-Peach H, Pasolli E, Karcher N, Armanini F, Manghi P, Bonham K, Zolfo M, De Filippis F, Magnabosco C, Bonneau R, Lusingu J, Amuasi J, Reinhard K, Rattei T, Boulund F, Engstrand L, Zink A, Collado MC, Littman DR, Eibach D, Ercolini D, Rota-Stabelli O, Huttenhower C, Maixner F, Segata N. (2019). The *Prevotella copri* Complex Comprises Four Distinct Clades Underrepresented in Westernized Populations. *Cell Host Microbe.* 13;26(5):666-679.e7.
27. Amuasi JH, May J. (2019). Non-typhoidal salmonella: invasive, lethal, and on the loose. *Lancet Infect Dis.* 19(12):1267-1269.
28. Gobat N, Amuasi J, Yazdanpanah Y, Sigfid L, Davies H, Byrne JP, Carson G, Butler C, Nichol A, Goossens H. (2019) Advancing preparedness for clinical research during infectious disease epidemics. *ERJ Open Res.* 20;5(2). pii:00227-2018.
29. Saxena A, Horby P, Amuasi J, Aagaard N, Köhler J, Gooshki ES, Denis E, Reis AA (2019); ALERRT-WHO Workshop, Ravinetto R. Ethics preparedness: facilitating ethics review during outbreaks – recommendations from an expert panel. *BMC Med Ethics.* 6;20(1):29.
30. Kaminski LC, Riehn M, Abel A, Steeg C, Yar DD, Addai-Mensah O, Aminkiah F, Owusu Dabo E, Jacobs T, Mackroth MS. (2019) Cytotoxic T Cell-Derived Granzyme B Is Increased in Severe *Plasmodium falciparum* Malaria. *Front Immunol.* 11; 10:2917.
31. Chilunga FP, Henneman P, Meeks KA, Beune E, Requena-Méndez A, Smeeth L, Addoj, Bahendeka S, Danquah I, Schulze MB, Spranger J, Owusu-Dabo E, Klipstein-Grobusch K, Mannens MM, Agyemang C. (2019) Prevalence and determinants of type 2 diabetes among lean African migrants and non-migrants: the RODAM study. *J Glob Health.* 9(2):020426.

32. Ramani E, Park S, Toy T, Panzner U, Mogeni OD, Im J, Cruz Espinoza LM, JeonHJ, Pak GD, Seo H, Chon Y, Rakotozandrindrainy R, Owusu-Dabo E, Osei I, Soura AB, Teferi M, Marks F, Mogasale V. A (2019) Multicenter Cost-of-Illness and Long-term Socioeconomic Follow-up Study in the Severe Typhoid Fever in Africa Program: Study Protocol. *Clin Infect Dis.* 30;69(Supplement_6): S459-S465.
33. Jeon HJ, Im J, Haselbeck A, Holm M, Rakotozandrindrainy R, Bassiahi AS, Panzner U, Mogeni OD, Seo HJ, Lunguya O, Jacobs J, Okeke IN, Terferi M, Owusu-Dabo E, Dougan G, Carey M, Steele AD, Kim JH, Clemens JD, Andrews JR, Park SE, Baker S, Marks F. (2019) How Can the Typhoid Fever Surveillance in Africa and the Severe Typhoid Fever in Africa Programs Contribute to the Introduction of Typhoid Conjugate Vaccines? *Clin Infect Dis.* 30;69(Supplement_6): S417-S421.
34. Mogeni OD, Cruz Espinoza LM, Im J, Panzner U, Toy T, Pak GD, Haselbeck A, Ramani E, Schütt-Gerowitt H, Jacobs J, Metila OL, Adewusi OJ, Okeke IN, Ogunleye VI, Owusu-Dabo E, Rakotozandrindrainy R, Soura AB, Teferi M, Roy KC, Macwright W, Breiman RF, Kim JH, Mogasale V, Baker S, Park SE, Marks F. (2019). The Monitoring and Evaluation of a Multicountry Surveillance Study, the Severe Typhoid Fever inAfrica Program. *Clin Infect Dis.* 30;69(Supplement_6): S510-S518.
35. Mohammed A, Acheampong PR, Otupiri E, Owusu-Dabo E. (2019) Symptom monitoring of childhood illnesses and referrals: A pilot study on the feasibility of a mobile phone-based system as a disease surveillance tool in a rural health district ofGhana. *Health Informatics J.* 23:1460458219879329.
36. Osei-Kwasi HA, Boateng D, Danquah I, Holdsworth M, Mejean C, Terragni L, Powell K, Schulze MB, Owusu-Dabo E, Meeks K, Beune E, Agyemang C, Klipstein-Grobusch K, Stronks K, Galbete C, Nicolaou M. Acculturation and FoodIntake Among Ghanaian Migrants in Europe: Findings From the RODAM Study. (2019) *J NutrEduc Behav.* 7. pii: S1499-4046(19)31011-5.
37. Mohammed A, Acheampong PR, Otupiri E, Osei FA, Larson-Reindorf R, Owusu-Dabo E. (2019) Mobile phone short message service (SMS) as a malaria control tool: aquasi-experimental study. *BMC Public Health.* 29;19(1):1193.
38. Adjei DN, Stronks K, Adu D, Beune E, Meeks K, Smeeth L, Addo J, Owusu-Dabo E, Klipstein-Grobusch K, Mockenhaupt F, Schulze M, Danquah I, Spranger J, Bahendeka SK, Agyemang C. (2019). Cross-sectional study of association between psychosocial stressors with chronic kidney disease among migrant and non-migrant Ghanaians living in Europe and Ghana: the RODAM study. *BMJ Open.* 1;9(8): e027931.

39. van der Linden EL, Meeks K, Beune E, de-Graft Aikins A, Addo J, Owusu-Dabo E, Mockenhaupt FP, Bahendeka S, Danquah I, Schulze MB, Spranger J, Klipstein-Grobusch K, Tetteh Appiah L, Smeeth L, Stronks K, Agyemang C. (2019) The prevalence of metabolic syndrome among Ghanaian migrants and their homeland counterparts: The Research on Obesity and type 2 Diabetes among African Migrants (RODAM) study. *Eur J Public Health.* 1;29(5):906-913.
40. Adjei DN, Stronks K, Adu D, Beune E, Meeks K, Smeeth L, Addo J, Owusu-Dabo E, Klipstein-Grobusch K, Mockenhaupt FP, Danquah I, Spranger J, Bahendeka S, De-Graft Aikins A, Agyemang C. (2019) Cross-sectional study of association between socioeconomic indicators and chronic kidney disease in rural-urban Ghana: theRODAM study. *BMJ Open.* 24;9(5): e022610.
41. de-Graft Aikins A, Dodoo F, Awuah RB, Owusu-Dabo E, Addo J, Nicolaou M, Beune E, Mockenhaupt FP, Danquah I, Bahendeka S, Meeks K, Klipstein-Grobusch K, Afrifa-Anane E, Smeeth L, Stronks K, Agyemang C. (2019) Knowledge and perceptions of type 2 diabetes among Ghanaian migrants in three European countries and Ghanaians in rural and urban Ghana: The RODAM qualitative study. *PLoS One.* 2;14(4): e0214501.
42. Nyaaba GN, Stronks K, Meeks K, Beune E, Owusu-Dabo E, Addo J, de-Graft Aikin A, Mockenhaupt F, Bahendeka S, Klipstein-Grobusch K, Smeeth L, Agyemang C. (2019) Is social support associated with hypertension control among Ghanaian migrants in Europe and non-migrants in Ghana? The RODAM study. *Intern Emerg Med.* 14(6):957-966.
43. Harling K, Adankwah E, Güler A, Afum-Adjei Awuah A, Adu-Amoah L, Mayatepek E, Owusu-Dabo E, Nausch N, Jacobsen M. (2019) Constitutive STAT3 phosphorylation and IL-6/IL-10 co-expression are associated with impaired T-cell function in tuberculosis patients. *Cell Mol Immunol.* 16(3):275-287.
44. van der Linden E, Meeks K, Beune E, de-Graft Aikins A, Addo J, Owusu-Dabo E, Mockenhaupt FP, Bahendeka S, Danquah I, Schulze MB, Spranger

- J, Klipstein-Grobusch K, Appiah LT, Smeeth L, Agyemang C. (2019) Dyslipidaemia among Ghanaian migrants in three European countries and their compatriots in rural and urban Ghana: The RODAM study. *Atherosclerosis*. 284:8391.
45. Baratin C, Beune E, van Schalkwijk D, Meeks K, Smeeth L, Addo J, de-GraftAikins A, Owusu-Dabo E, Bahendeka S, Mockenhaupt FP, Danquah I, Schulze MB, Spranger J, Boateng D, Klipstein-Grobusch K, Stronks K, Agyemang C. (2019) Differential associations between psychosocial stress and obesity among Ghanaians in Europe and in Ghana: findings from the RODAM study. *Soc Psychiatry Psychiatr Epidemiol*. 55(1):45-56.
 46. Kwarteng A, Akazili J, Welaga P, Dalinjong PA, Asante KP, Sarpong D, Arthur S, Bangha M, Goudge J, Sankoh O. (2019) The state of enrollment on the National Health Insurance Scheme in rural Ghana after eight years of implementation. *Int J Equity Health*. 19(1):4.
 47. Ritter M, Osei-Mensah J, Debrah LB, Kwarteng A, Mubarik Y, Debrah AY, Pfarr K, Hoerauf A, Layland LE. (2019) *Wuchereria bancrofti*-infected individuals harbor distinct IL-10-producing regulatory B and T cell subsets which are affected by anti-filarial treatment. *PLoS Negl Trop Dis*. 23;13(5):e0007436.
 48. Kwarteng A, Malm KL, Febir LG, Tawiah T, Adjei G, Nyame S, Agbokey F, Twumasi M, Amenga-Etego S, Danquah DA, Bart-Plange C, Owusu-Agyei S, Asante KP. (2019) The Accuracy and Perception of Test-Based Management of Malaria at Private Licensed Chemical Shops in the Middle Belt of Ghana. *Am J Trop Med Hyg*. 100(2):264-274.
 49. Kwarteng A, Arthur YD, Yamba JK, Sylverken AA, Kini P, Ahuno ST, Owusu-Dabo E. Influence of seasonal variation on reported filarial attacks among people living with lymphedema in Ghana. *BMC Infect Dis*. 2019 May 20;19(1):442. doi:10.1186/s12879-019-4084-2.
 50. Villa G, Abdullahi A, Owusu D, Smith C, Azumah M, Sayeed L, Austin H, Awuah D, Beloukas A, Chadwick D, Phillips R. (2020) Determining virological suppression and resuppression by point-of-care viral load testing in a HIV care setting in sub-Saharan Africa. *EclinicalMedicine*. 1;18:100231
 51. Frimpong M, Simpson SV, Ahor HS, Agbanyo A, Gyabaah S, Agbavor B, Amanor IB, Addo KK, Böhlken-Fascher S, Kissenkötter J, Wahed AAE, Phillips RO. (2020) Multiplex Recombinase Polymerase Amplification Assay for Simultaneous Detection of *Treponema pallidum* and *Haemophilus ducreyi* in Yaws-Like Lesions. *Trop Med Infect Dis*. 6;5(4):E157
 52. El-Duah P, Sylverken A, Owusu M, Yeboah R, Lamptey J, Frimpong YO, Burimuah V, Antwi C, Folitse R, Agbenyega O, Oppong S, Adu-Sarkodie Y. (2019) Potential Intermediate Hosts for Coronavirus Transmission: No

Evidence of Clade 2c Coronaviruses in Domestic Livestock from Ghana. *Trop Med Infect Dis.* 10;4(1). pii: E34.

53. El-Duah P, Meyer B, Sylverken A, Owusu M, Gottula LT, Yeboah R, Lamptey J, Frimpong YO, Burimuah V, Folitse R, Agbenyega O, Oppong S, Adu-Sarkodie Y, Drosten C. (2019) Development of a Whole-Virus ELISA for Serological Evaluation of Domestic Livestock as Possible Hosts of Human Coronavirus NL63. *Viruses.* 9;11(1). pii: E43.
54. El-Duah P, Dei D, Binger T, Sylverken A, Wollny R, Tasiame W, Samuel Oppong, Yaw Adu-Sarkodie, Benjamin Emikpe, Raphael Folitse, Jan Felix Drexler, Richard Phillips, Christian Drosten, and Corman VM. (2020). Detection and genomic characterization of hepatitis E virus genotype 3 from pigs in Ghana, Africa. *One Health Outlook.* 2: 1–9.
55. Boateng R, Mutocheluh M, Dompreeh A, Obiri-Yeboah D, Odame Anto E, Owusu M, Narkwa PW. (2019) Sero-prevalence of Hepatitis B and C viral co-infections among HIV-1infected ART-naïve individuals in Kumasi, Ghana. *PLoS One.* 19;14(4): e0215377.
56. Batsa Debrah L, Klarmann-Schulz U, Osei-Mensah J, Dubben B, Fischer K, Mubarik Y, Ayisi-Boateng NK, Ricchiuto A, Fimmers R, Konadu P, Nadal J, Gruetzmacher B, Weil G, Kazura JW, King CL, Debrah AY, Hoerauf A. (2019) Comparison of repeated doses of ivermectin versus ivermectin plus albendazole for treatment of onchocerciasis – a randomized open-label clinical trial. *Clin Infect Dis.* 19. pii: ciz889.
57. Ghansah A, Kamau E, Amambua-Ngwa A, Ishengoma DS, Maiga-Ascofare O, Amenga-Etego L, Deme A, Yavo W, Randrianarivelosia M; Plasmodium Diversity Network Africa, Ochola-Oyier LI, Helegbe GK, Bailey J, Alifrangis M, Djimde A. (2019). Targeted Next Generation Sequencing for malaria research in Africa: current status and outlook. *Malar J.* 23;18(1):324.
58. Amambua-Ngwa A, Amenga-Etego L, Kamau E, Amato R, Ghansah A, Golassa L, Randrianarivelosia M, Ishengoma D, Apinjoh T, Maïga-Ascofare O, Andagalu B, Yavo W, Bouyou-Akotet M, Kolapo O, Mane K, Worwui A, Jeffries D, Simpson V, D’Alessandro U, Kwiatkowski D, Djimde AA. (2019) Major subpopulations of *Plasmodium falciparum* in sub-Saharan Africa. *Science.* 23;365(6455):813-816.
59. Eibach D, Hogan B, Sarpong N, Winter D, Struck NS, Adu-Sarkodie Y, Owusu-Dabo E, Schmidt-Chanasit J, May J, Cadar D. (2019) Viral metagenomics revealed novel betatorquevirus species in pediatric inpatients with encephalitis/meningoencephalitis from Ghana. *Sci Rep.* 20;9(1):2360.

60. Van Der Werf TS, Barogui YT, Converse PJ, Phillips RO, Stienstra Y. (2020) Pharmacologic management of Mycobacterium ulcerans infection. *Expert Rev Clin Pharmacol.*13(4):391-40
61. Kumuthini J, Zass L, Panji S, Salifu SP, Kayondo JK, Nembaware V, Mbiyavanga M, Olabode A, Kishk A, Wells G, Mulder NJ; as members of the Sustainability and Outreach Work Package of the H3ABioNet Consortium. (2019) The H3ABioNet helpdesk: an online bioinformatics resource, enhancing Africa's capacity for genomics research. *BMC Bioinformatics.* 30;20(1):741.
62. Abukari Z, Okonu R, Nyarko SB, Lo AC, Dieng CC, Salifu SP, Gyan BA, Lo E, Amoah LE. (2019) The Diversity, Multiplicity of Infection and Population Structure of *P. falciparum* Parasites Circulating in Asymptomatic Carriers Living in High and Low Malaria Transmission Settings of Ghana. *Genes (Basel).* 7;10(6). pii:E434.
63. Salifu SP, Bukari AA, Frangoulidis D, Wheelhouse N. Current perspectives on the transmission of Q fever: Highlighting the need for a systematic molecular approach for a neglected disease in Africa. *Acta Trop.* 193:99-105.

BOOK CHAPTERS & PUBLISHED ONLINE LECTURES

1. Wansbrough-Jones M, Phillips RO (2019). Buruli ulcer In: Edward T Ryan, David R Hill, Tom Solomon, Timothy P Endy and Naomi Aronson (eds) *Hunter's Tropical Medicine and Emerging Infectious Disease*, 10th Edition United Kingdom: Elsevier Health Sciences. ISBN: 978-0-323-55512-8
2. Omansen TF, van der Werf TS, Phillips RO. Antimicrobial Treatment of Mycobacterium ulcerans Infection. 2019 Apr 30. In: Pluschke G, Röltgen K, editors. *Buruli Ulcer: Mycobacterium Ulcerans Disease* [Internet]. Cham (CH): Springer; 2019. Available from <http://www.ncbi.nlm.nih.gov/books/NBK553822/> PubMed PMID: 32091697.
3. Phillips, R.O. (2019, December 31). Mycobacterium ulcerans disease: Buruli Ulcer [Video file]. In: The Biomedical & Life Sciences Collection, Henry Stewart Talks. Retrieved January 7, 2020, from <https://hstalks.com/bs/3962/>.

5. Tetteh AW, Thomford KP, Mensah ML, Boadu KO, Thomford AK, Amposah IK, Amofa, Turkson BK, Agyemang MO, Owusu-Ansah ED. (2020). Ghanaian herbal medicines for malaria: An Evaluation of the Clinical Safety and Effectiveness of “Time Herbal Mixture” in uncomplicated malaria. *Phcog Res*, 2020;12:71-5
6. Baah, M. K., Mensah, A. Y., Asante-Kwatia, E., Amponsah, I. K. Forkuo, A. D., Harley, B. K. and Adjei, S. (2020). In vivo antiplasmodial activity of different solvent extracts of *Myrianthus libericus* stem bark and its constituents in *Plasmodium berghei*-infected mice. *Evidence-Based Complementary and Alternative Medicine*, 2020:1-10. <https://doi.org/10.1155/2020/8703197>
7. Yamoah, A., Adosraku, R. K., Amenu, J. D., Baah, M. K., Abaye, D. A. (2020). Evaluation of the haematinic activities of Extracts of *Justicia secunda* Vahl leaves in red blood cells of laboratory rats. *Journal of Biosciences and Medicines*, 8(3): 48-57. <https://www.scirp.org/journal/paperinformation.aspx?paperid=98678>
8. Boateng A., Adu, J. K. and Baah, M. K. (2019). Investigation of antimicrobial and antioxidant properties of extracts of the stem bark of *Drypetes floribunda* (Euphorbiaceae). *Investigational Medicinal Chemistry and Pharmacology*, 2(2): 32. <https://dx.doi.org/10.31183/imcp.2019.00032>.

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

ACADEMIC STAFF

Associate Professors:

**J. S. K. Ayim	PhD (UK), DSC, B. Pharm (Kumasi), FPC Pharm, FPSGH
**J. K. Kwakye	PhD, MSc (UK), B. Pharm (Kumasi), FPC Pharm, FPSGH
*R. K. Adosraku	PhD (UK), M. Pharm, B. Pharm (Kumasi), FPSGH
S. Asare-Nkansah	PhD (Germany), MSc, B. Pharm (Kumasi), MPSGH
I. Ayensu	PhD (UK), MSc, B. Pharm (Kumasi), MPSGH

Senior Lecturers:

S. Oppong Bekoe	PhD (Denmark), MSc, B. Pharm (Kumasi), MPSGH
J. Oppong-Kyekyeku	PhD, MPhil, B. Pharm (Kumasi), MPSGH

J. N. A. Addotey	PhD (Germany), MPhil, B. Pharm (Kumasi), MPSGH
A. Brobbey	PhD (Japan), MSc. (Japan), B. Pharm (Kumasi), MPSGH
J. K. Adu	PhD (UK), MSc (UK), B. Pharm (Kumasi), MPSGH

**post retirement contract*

***part-time*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Ade, A., Amengor, C. D., Brobbey, A., Ayensu, I., Harley, B. K., & Boakye, Y. D. (2020). Synthesis and Antimicrobial Resistant Modulatory Activity of 2, 4-Dinitrophenylhydrazone Derivatives as Agents against Some ESKAPE Human Pathogens. *Journal of Chemistry*. <https://doi.org/10.1155/2020/2720697>
2. Bekoe, S. O., Orman, E., Asare-Nkansah, S., Sørensen, A. M. L., Björklund, E., Adosraku, R. K., Hansen, M., Styrihave, B. (2020). Detection and quantification of antibiotic residues in urine samples of healthy individuals from rural and urban communities in Ghana using a validated SPE-LC-MS/MS method. *Springer Nature Applied Sciences* (2020) 2:1903. <https://doi.org/10.1007/s42452-020-03742-7>
3. Ayensu, I., Bekoe, S. O., Adu, J. K., Brobbey, A. A., & Appiah, E. (2020). Evaluation Of Acid Neutralising And Buffering Capacities Of Selected Antacids In Ghana. *Scientific African*, e00347. <https://doi.org/10.1016/j.sciaf.2020.e00347>.
4. Adu, J. K., Fafanyo, D., Orman, E., Ayensu, I., Amengor, C. D., & Kwofie, S. (2020). Assessing metal contaminants in milled maize products available on the Ghanaian market with Atomic Absorption Spectrometry and Instrumental Neutron Activation Analyser techniques. *Food Control*, 109, 106912. <https://doi.org/10.1016/j.foodcont.2019.106912>.
5. Spiegler, V., Gierlikowska, B., Saenger, T., Addotey, J. N., Sendker, J., Jose, J., Kiss A.K. & Hensel, A. (2020). Root Extracts from *Ononis spinosa* Inhibit IL-8 Release via Interactions With Toll-Like Receptor 4 and Lipopolysaccharide. *Frontiers in Pharmacology*, 11, 889. doi: 10.3389/fphar.2020.00889
6. Adu, J. K., Amengor, C. D. K., Mohammed Ibrahim, N., Amaning-Danquah, C., Owusu Ansah, C., Gbadago, D. D., & Sarpong-Agyapong, J. (2020). Synthesis and In Vitro Antimicrobial and Anthelmintic Evaluation of Naphtholic and

- Phenolic Azo Dyes. *Journal of Tropical Medicine*, 2020. pages 1-8. <https://doi.org/10.1155/2020/4850492>
7. Quartey, A. K., Jibira, Y., Forkuo-Donkor, A., Ayensu, I., Oduro-Kwarteng, A. A., Asuamah, S. E. R., & Noah, P. (2020). Hydroethanolic stem bark extract of *Vernonia amygdalina* Del.(Asteraceae) suppresses yeast-induced pyrexia and *Plasmodium berghei* malaria in murine models. *Journal of Medicinal Plants Research*, 14(6), 258-264. DOI: 10.5897/JMPR2020.6931
 8. Oppong Kyekyeku J, Asare-Nkansah S, Oppong Bekoe S, Sezgin S, Adosraku RK, Spiteller M (2019). MALDI–HRMS imaging and HPLC–HRESI–MSn characterisation of kaurane diterpenes in the fruits of *Xylopia aethiopica* (Dunal) A. Rich (Annonaceae). *Phytochemical Analysis*. 2019;1–6.
 9. Amenu, J. D., Ayensu, I., Bekoe, S. O., Yamoah, A. (2019) Characterization And Rp-Hplc Method Development of a Biomarker (Bergenin) from the roots of *Securinega virosa*. *Journal of Basic and Applied Research International*. 25(6): 358–367.
 10. Adu, J. K., Amengor, C. D., Kabiri, N., Orman, E., Patamia, S. A. G., & Okrah, B. K. (2019). Validation of a Simple and Robust Liebermann–Burchard Colorimetric Method for the Assay of Cholesterol in Selected Milk Products in Ghana. *International journal of food science*, 2019. <https://doi.org/10.1155/2019/9045938>
 11. Danson, D., Ehoneah, O., Ayensu, I., Brobbey, A. A., Adu, J. K., Bekoe, S. O. (2019) Determination of Tryptophan Content in Hausa Koko (Spicy Millet Porridge): A Ghanaian Beverage. *International Journal of Phytopharmacy*; 9(4): e5287. Doi: 10.7439/ijpp.v9i4.5287
 12. I. Ayensu, J. K. Adu and J. S. Boateng (2019). Evaluation of Protein Drugs in Optimized Thiolated-Chitosan Based Buccal Xerogels. *Journal of Science and Technology (KNUST)* 2019 Accepted for publication in JUST Vol 38 No.3. December 2019

CONFERENCE PROCEEDINGS/PUBLISHED ABSTRACTS

1. Spiegler V, Gierlikowska B., Addotey J.N., Saenger T., Sendker J., Jose J., Kiss A.K. and Hensel A (2020). Root extracts from *Ononis spinosa* exert anti-inflammatory activity in vitro on IL-8 and TNF- release by inhibition of TLR-4 receptor. In proceedings of 67th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) in cooperation with the French Society of Pharmacognosy AFERP September 01 – 05, 2019, Innsbruck, Austria. <https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0039-3399691>

2. Ofosu, J., Asare-Nkansah, S., Ayim, J. S. K (2020). Effects of structural variation between surrogate reference standards and target analyte on surrogate constant and assay values: The case of paracetamol tablets. 9th Ghana Science Association Research Seminar and Poster Presentations, GSA Webinar 2020, July 28-29, 2020.
3. Antwi P. B., Bekoe S. O., Asare-Nkansah S., Kwakye J. K (2020). Development of a validated ion-pair HPLC method for the assay of fixed-dose combination antihypertensive products using the surrogate reference standards approach. 9th Ghana Science Association Research Seminar and Poster Presentations, GSA Webinar 2020, July 28-29, 2020.
4. Abeka M. K., Asare-Nkansah S., Bekoe S. O., Harley B. K., Ayim J. S. K. (2020). Synthesis and investigation of antimicrobial and efflux pump inhibitory activities of derivatives of dehydrozingerone and vanillin. 9th Ghana Science Association Research Seminar and Poster Presentations, GSA Webinar 2020, July 28-29, 2020.
5. Ofori-Attah E., Asare-Nkansah S., Komlaga G. Mensah M.L.K. (2020). Standardization and evaluation of anti-plasmodial activity of the aqueous leaf extract of *Tectona grandis*. 9th Ghana Science Association Research Seminar and Poster Presentations, GSA Webinar 2020, July 28-29, 2020.
6. Asare, P., Asare-Nkansah S., Kwakye, J.K. (2020). Surrogate reference standards in quantitative HPLC analysis: The case of guaifenesin and dextromethorphan. 9th Ghana Science Association Research Seminar and Poster Presentations, GSA Webinar 2020, July 28-29, 2020.

DEPARTMENT OF PHARMACEUTICS

ACADEMIC STAFF

Professors

K. Ofori-Kwakye	PhD, MSc (UK), BPharm (Kumasi)
C. Agyare	PhD (Germany), MPharm, BPharm (Kumasi)

Associate Professors

S. Y. Gbedema	PhD (UK/Kumasi), MPharm, BPharm (Kumasi)
F. Adu	PhD, MPharm, BPharm, (Kumasi)
S. E. Kipo	MPhil, BPharm (Kumasi)

N. Kuntworbe	PhD (New Zealand), MPharm, BPharm (Kumasi)
##M. T. Bayor	PhD, (UK/Kumasi), MSc (UK), BPharm, (Kumasi)

Senior Lecturers

V. E. Boamah	PhD, MPharm, BPharm (Kumasi)
R. Johnson	PhD (Germany), MPharm, BPharm (Kumasi)
M. El Boakye-Gyasi	PhD, MPhil, BPharm (Kumasi)

Lecturers

Y. A. Osei	PhD (Malaysia), MPhil, BPharm (Kumasi)
Y. D. Boakye	PhD (Kumasi), BPharm (Kumasi)
T. A. Agana	- PhD, MPhil, BSc. (Kumasi)

##*Sabbatical Leave*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Kumadoh D, Ofori-Kwakye K, Kuntworbe N, Adi-Dako O, Appenahier JA. (2020). Determination of shelf life of four herbal medicinal products using high-performance liquid chromatography analyses of markers and the Systat Sigmaplot software. *Journal of Applied Pharmaceutical Science* 10(6), 072-080.
2. Owusu FWA, Entsie P, Boakye-Gyasi ME, Bayor MT. (2020). Formulation and In Vitro Evaluation of Nifedipine Suppositories for Geriatric and Severely Ill Patients with Hypertension. *Journal of Pharmacy and Drug Development* 2(1).
3. Abdul-Nasir-Deen AY, Boakye YD, Osafo N, Agyare C, Boamah D (2020) Anti-inflammatory and wound healing properties of methanol leaf extract of *Physalis angulata* L. *South African Journal of Botany* 133, 124-13.
4. Osei Akoto C, Acheampong A, Boakye YD, Naazo AA, Adomah DH (2020). Anti-Inflammatory, Antioxidant, and Anthelmintic Activities of *Ocimum basilicum* (Sweet Basil) Fruits. *Journal of Chemistry*, Article ID 2153534 | <https://doi.org/10.1155/2020/2153534>.
5. Appiah T, Agyare C, Luo Y, Boamah VE, Boakye YD (2020). Antimicrobial and Resistance Modifying Activities of Cerevisterol Isolated from *Trametes* Species. *Current Bioactive Compounds* 16 (2), 115-123.

6. Bekoe EO, Agyare C, Boakye YD, Baiden BM, Asase A, Sarkodie J (2020). Ethnomedicinal survey and mutagenic studies of plants used in Accra metropolis, Ghana *Journal of Ethnopharmacology*, 248, 112309
7. Bediako A, Kuntworbe N, Johnson R, Bayor M, Ofori-Kwakye K (2020). Formulation and evaluation of clarithromycin – loaded self – micro emulsified drug delivery system. *International Journal of Pharmaceutical Sciences and Research* 11 (11), 5619-5632.
8. Spiegler, V., Greiffer, L., Jacobtorweihen J., Asase, A., Lanvers-Kaminsky, C., Hempel, G., Agyare, C., Hensel, A. (2020). In vitro screening of plant extracts traditionally used as cancer remedies in Ghana – 15-Hydroxyangustilobine A as the active principle in *Alstonia boonei* leaves. *Journal of Ethnopharmacology* 265, 113359.
9. Owusu, FWA, Boakye-Gyasi M, Mante PK, Ekuadzi E, Ofori-Kwakye K, Woode E. (2019). Formulation and evaluation of sustained release matrix tablets of *Capparis erythrocarpos* roots extract to improve patient compliance in management of arthritis. *Scientific African* 6 e00172
10. Bediako A, Kuntworbe N, Johnson R, Baryor MT, Ofori-Kwakye K. (2019). Self-micro emulsifying drug delivery: a potential solution to the challenges of oral delivery of poorly water-soluble drugs. *International Journal of Pharmaceutical Sciences, Reviews and Research* 58(1), 34-44.
11. Twumasi, M. A., Tandoh, A., Mante, P. K., Ekuadzi, E., Boakye-Gyasi, M. E., Benneh, C.K., Kumadoh, D. and Woode, E (2019). Leaves and stems of *Capparis erythrocarpos*, more sustainable than roots, show antiarthritic effects, *Journal of Ethnopharmacology*, 111890.
12. Twumasi, M.A., Ekuadzi, E., Mante P.K., Boakye-Gyasi, M.E., Mensah, M.L.K., and Woode, E (2019). Pharmacognostic Studies of the Leaves, Stem and Root of *Capparis erythrocarpos* Lert (*Capparaceae*),” *Pharmacognosy Journal*, 11(1):112-8.
13. Salihs SA, Forkuor JB, Boamah VE. (2019). Post Birth Challenges among Working Mothers in a Higher Educational Institute in Ghana: Implications for Occupational Competitiveness of Working Mothers, *Int’l J. Soc. Sci. Stud.* 7, 123.
14. Bediako A, Kuntworbe N, Johnson R, Bayor M, Ofori-Kwakye K (2019). Self – Micro Emulsifying Drug Delivery System: A Potential Solution to the Challenges of Oral Delivery of Poorly Water – Soluble Drugs. *International Journal of Pharmaceutical Sciences Review and Research* 58 (1), 34-44.

15. Agyare, C., Akindele, A. J., Steenkamp, V. (2019). Natural products and/or isolated compounds on wound healing. Evidence-Based Complementary and Alternative Medicine, Article ID 4594965, 3 pages.
16. Osei, F. B., Boamah, V. E., Agyare, C., Abaidoo, R. C. (2019). Physicochemical properties and microbial quality of water used in selected poultry farms in the Ashanti region of Ghana. The Open Microbiology Journal, 13, 121-127.
17. Onyegeme-Okerenta, B. M., Bradshaw, T. D., Agyare, C., Spriggs, K. A. (2019). In vitro cytotoxic evaluation of ethanol leaf extract of *Physalis angulata* Linn on some human carcinoma cell lines. Journal of Advanced Research in Biochemistry and Pharmacology, 2(1): 2-10.
18. Adu, F., Boakye, Y. D., Agyare, C., Sam, G. H., Boamah, V. E., Osei, F. B. (2019). Antibacterial resistance modulatory properties of selected Ghanaian plants. African Journal of Pharmacy and Pharmacology, 13(5): 57-69.
19. Akoto, C. O., Acheampong, A., Boakye, Y. D., Akwata, D., & Okine, M. (2019). In vitro anthelmintic, antimicrobial and antioxidant activities and FTIR analysis of extracts of *Alchornea cordifolia* leaves. Journal of Pharmacognosy and Phytochemistry, 8(4), 2432-2442.

BOOK CHAPTERS

1. Sarwar, S., Hanif, M. A., Ayub, M. A., Boakye, Y. D., Agyare, C. (2019). Fenugreek. In: Hanif, M., Nawaz, H., Khan, M., Byrne, H. (Editors), 'Medicinal Plants of South Asia: Novel Sources for Drug Discovery', 1st Edition. Elsevier, ISBN 9780081026601; Print ISBN 9780081026595
2. Boakye, Y. D., Osafo, N., Danquah, C. A., Adu, F., Agyare, C. (2019). Antimicrobial Agents: Antibacterial Agents, Anti-biofilm Agents, Antibacterial Natural Compounds, and Antibacterial Chemicals. In: Kirmusaoğlu, S. (Editor), 'Antimicrobials', InTech Open Science, ISBN 978-1-78985-790; Print ISBN 978-1-78985-789-4.
3. Mintah, S.O., Asafo-Agyei, T., Archer, M. A., Atta-Adjei, P., Boamah, D., Appiah, A., Ocloo, A., Boakye, Y. D., Osafo, N., Agyare, C. (2019). Medicinal Plants for Treatment of Prevalent Diseases. In: Perveen, S. and Al-Taweel, A. (Editors) "Pharmacognosy-Medicinal Plants", InTech Open Science, ISBN [978-1-83880-611-8](https://doi.org/10.5772/intechopen.83880).
4. Agyare, C. & Agana, T. A. (2019). Bioactive Metabolites from Basidiomycetes. In, Deshmukh, S. K. (Editor), "Advances in Macrofungi: Diversity, Ecology, and Biotechnology". Published by CRC Press, Florida, USA, pp. 231-254. ISBN 9781138587274.

Senior Lecturers:

K. I. Amponsah PhD, BPharm (Kumasi), MPSGH

E. Ekuadzi PhD, BPharm (Kumasi), MPSGH

Lecturer:

E. Asante-Kwatia PhD, BPharm (Kumasi), MPSGH

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Baah, M. K., Mensah, A. Y., Asante-Kwatia, E., Amponsah, I. K., Forkuo, A. D., Harley, B. K. and Adjei, S. (2020). In vivo antiplasmodial activity of different solvent extracts of *Myrianthus libericus* stem bark and its constituents in *Plasmodium berghei*-infected mice. *Evidence-Based Complementary and Alternative Medicine*.
2. Baidoo, M. F., Mensah, A. Y., Ossei, P. P. S., Asante-Kwatia, E. and Amponsah, I. K. (2020). Wound healing, antimicrobial and antioxidant properties of the leaf and stem bark of *Entada africana* Guill. & Perr. *South African Journal of Botany*, 2021(137):52-59.
3. Ampofo, E. K., Amponsah, I. K., Asante-Kwatia, E., Armah, F.A., Atchoglo, P.K. and Mensah, A.Y. (2020). Indigenous medicinal plants as biofilm inhibitors for the mitigation of antimicrobial resistance. *Advances in Pharmacological and Pharmaceutical Sciences*.
4. Agyemang, A. O., Mensah, M. L. K., Yamile, R. C., Ocloo, A., Appiah A. A., Mensah, A. Y., and Thomford, K. P. (2020). Clinical evaluation of the safety and effectiveness of heptonica: a Ghanaian hepatorestorative polyherbal product. *Evidence-Based Complementary and Alternative Medicine*.
5. Harley, B. K., Dickson, R. A., Amponsah, I. K., Ben, I. O., Adongo, D. W., Fleischer, T. C. and Habtemariam, S. (2020). Flavanols and triterpenoids from *Myrianthus arboreus* ameliorate hyperglycaemia in streptozotocin-induced diabetic rats possibly via glucose uptake enhancement and α -amylase inhibition. *Biomedicine and Pharmacotherapy*, 132: 10847.
6. Harley, B. K., Dickson, R. A., Amponsah, I. K., Ngala, R. A., Berkoh, D. and Fleischer, T. C. (2020). Antidiabetic effect of *Chrysophyllum albidum* is mediated by enzyme inhibition and enhancement of glucose uptake via 3T3-L1 adipocytes and C2C12 myotubes. *Asian Pacific Journal of Tropical Biomedicine*, 10(9): 387-396.
7. Jibira, Y., Boakye-Gyasi, E., Abotsi, W. K. M., Amponsah, I. K., Adongo, D. W. and Woode, E. (2020). Hydroethanolic stem bark extract of *Burkea Africana*

attenuates vincristine-induced peripheral neuropathy in rats. *Advances in Pharmacological and Pharmaceutical Sciences*.

8. Adjei, S., Entsua-Mensah, P., Amponsah, I. K., Baah, M. K., Kwakye, N. A. A. and Addae-Kyereme, N. Y. K. (2020). Pharmacognostic and physicochemical studies of the leaves of *Hoslundia opposita* Vahl (Lamiaceae). *Journal of Pharmacognoy and Phytochemistry*, 9(5):2996-3001.
9. Donkor, S., Larbie, C., Komlaga, G. and Emikpe, B. O. (2020). Evaluation of the acute hepatoprotective potential of hydroethanolic extract of *Duranta erecta* L. Parts. *Journal of Toxicology*.
10. Owojuyigbe, O. S., Larbie, C., Firempong, C. K., Komlaga, G., Emikpe, B. O. and Otuechere, C. A. (2020). Extracts of *Hura crepitans* L. stem bark attenuate liver injury and inflammation induced by CCl₄ in rats. *Comparative Clinical Pathology*, 29(6): 1199–1208.
11. Kablan, A. C. L., Konan, J. D., Komlaga, G., Kabran, F. A., Daouda, B., N'Tamon, A. D., Kouamé, T., Jagera, A., Leblanc, K., Seon-Méniel, B., Beniddir, M. A., Attioua, K. B., Le Pogam, P. and Champy, P. (2020). Five new cassane diterpenes from the seeds and bark of *Erythrophleum suaveolens*. *Fitoterapia*, 146: 104700.
12. Owojuyigbe, O. S., Firempong, C. K., Komlaga, G., Larbie, C., and Emikpe, B. O. (2020). Phytochemical, antioxidant and safety evaluation of *Hura crepitans* (L.) stem bark hydroethanolic extract in animals. *European Journal of Medicinal Plants*, 31(8), 1-16.
13. Donkor, S., Larbie, C., Komlaga, G. and Emikpe, B. O. (2020). Toxicity of the hydroethanolic leaves extract of *Duranta erecta* L. in rat models. *Journal of Pharmaceutical Research International*, 32(6): 9-18.
14. Larbie, C., Owojuyigbe, O. S., Firempong, C. K., Komlaga, G. and Emikpe, B. O. (2020). Hepatoprotective potential of *Hura crepitans* L.: A review of ethnomedical, phytochemical and pharmacological studies. *Journal of Complementary and Alternative Medical Research*, 9(2): 1-10.
15. Turkson, M. K., Amponsah, I. K., Mensah, M. L. K., Mensah, A. Y., Sam, G. H., Ekuadzi, E. and Achaab, E. (2020). Evaluation of the microbial load and heavy metal content of two polyherbal antimalarial products on the Ghanaian market. *Evidence-Based Complementary and Alternative Medicine*.
16. Donkor, S., Larbie, C., Komlaga, G. and Emikpe, B. O. (2019). Phytochemical, antimicrobial, and antioxidant profiles of *Duranta erecta* L. parts. *Biochemistry Research International*.

17. Mensah, M. L., Komlaga, G., Forkuo, A. D., Firempong, C., Anning, A. K. and Dickson, R. A. (2019). Toxicity and safety implications of herbal medicines used in Africa. *Herbal Medicine*, 63: 1992-0849.
18. Afolayan, O. D., Firempong, C. K., Komlaga, G., Addo-Fordjour, P. and Narkwa, P.W. (2019). Universal access to healthcare-the role of the health Scientist. *Convention of Biomedical Research Ghana*.
19. Asante-Kwatia, E., Jibira, Y., Mensah, A. Y., and Osei-Sarfoh, D. (2019). Macaranga barteri stem bark extract exerts anti-inflammatory and anti-hyperalgesia activity in murine models. *Discovery Phytomedicine*, 6(3): 130-137.
20. Asante-Kwatia, E., Mensah, A.Y., Frimpong, B. M., and Adu, A. G. (2019). Quality xcontrol standardization of the leaves and root of *Landolphia owariensis* (Apocynaceae). *The Journal of Phytopharmacology*; 8(4): 185-191
21. Baidoo, M. F., Asante-Kwatia, E., Mensah, A. Y., Sam, G. H., and Amponsah, I. K. (2019). Pharmacognostic characterization and development of standardization parameters for the quality control of *Entada africana* Guill. and Perr. *Journal of Applied Research on Medicinal and Aromatic Plants*, 12: 36-42.
22. Frederick, W. O., Boakyee-Gyasi, M. E., Mante, P. K., Ekuadzi, E., Ofori-Kwakye, K., and Woode, E. (2019). Formulation and Evaluation of Sustained Release Matrix Tablets of *Capparis erythrocarpos* roots extract to improve patient compliance in management of arthritis. *Scientific African*, 00172.
23. Borquaye, L. S., Ekuadzi, E., Darko, G., Ahor, H. S., Nsiah, S. T., Lartey, J. A. and Woode, E. (2019). Occurrence of antibiotics and antibiotic-resistant bacteria in landfill sites in Kumasi, Ghana. *Journal of Chemistry*, 2019.
24. Twumasi, M.A., Tandoh, A., Mante, P.K., Ekuadzi, E., Boakyee-Gyasi, M.E., Benneh, C.K., Kumadoh, D. and Woode, E., (2019). Leaves and stems of *Capparis erythrocarpos*, more sustainable than roots, show antiarthritic effects. *Journal of ethnopharmacology* 238: 111890.
25. Twumasi, M. A., Ekuadzi, E., Mante, P. K., Boakyee-Gyasi, M. E., Mensah, M. L. K. and Woode, E. (2019). Pharmacognostic studies of the leaves, stem and root of *Capparis erythrocarpos* Isert (Capparaceae). *Pharmacognosy Journal*, 11(1): 112-118.

BOOK CHAPTER

1. Asante-Kwatia, E., Mensah, A. Y. and Baidoo, M. F. (2020). Analgesic and Anti-Inflammatory Effect of Ghanaian Medicinal Plants. In medicinal plants-use in prevention and treatment of diseases. IntechOpen

DEPARTMENT OF PHARMACY PRACTICE

ACADEMIC STAFF

Professor:

F. T. K. Owusu-Daaku PhD (UK), MPharm, BPharm (Kumasi), MPSGH, FGCPH, FPCP

Associate Professors:

K. O. Buabeng PhD (Finland), MSc (USA), BPharm (Kumasi), MPSGH, FGCPH

B. P. Anto PhD, MSc (London), BPharm (Kumasi), MPSGH, FGCPH

Senior Lecturers:

A. F. A. Marfo PhD (Kumasi), MSc (London), BPharm (Kumasi), MPSGH

M. N. A. Opare-Addo PhD, MPH, BPharm (Kumasi), MPSGH

Lecturers:

K. B. Mensah PhD (South Africa), Msc (UK), PharmD (Kumasi), FGCPH

J. Attakorah MSc, PharmD (Kumasi), FGCPH

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Hitch G, Danquah CA, Owusu –Ofori A, Buabeng KO. Public perceptions on the use of antibiotics at a market place in Ghana: A cross sectional study. Global Journal of Medicine and Public Health 2020; 9 (1)
2. Amartey AO, Buabeng KO, Tengey S, Maru SM. The availability, use and disposal of malaria and HIV rapid diagnostic test kits in health facilities in

- the Greater Accra Region of Ghana. *Int J Community Med Public Health* 2020; 7(12)
3. Ashinyo ME, Duti V, Dubik DS, Buabeng KO et al. Clinical characteristics, treatment regimen and duration of hospitalisation among COVID-19 patients in Ghana: a retrospective cohort study. *PAMJ* 2020; 37(1):9
 4. Nyiambam W, Sylverken A, Owusu IK, Buabeng KO et al. Cardiovascular disease risk assessment among patients attending two cardiac clinics in the Ashanti Region of Ghana. *Ghana Med J* 2020; 54(3):140-145
 5. Opare-Addo MN, Osei FA, Buabeng KO, Marfo AF et al. Healthcare services utilisation among patients with hypertension and diabetes in rural Ghana. *African Journal of Primary Health Care & Family Medicine*.2020; 12(1)
 6. Nsutebu NS, Owusu IK, Buabeng KO, Bonsu KO. Ambulatory blood pressure monitoring and management of hypertension at a cardiac clinic in Kumasi Metropolis, Ghana. *J Clin Hypertens* 2020; 13822
 7. Ossei I, Buabeng KO, Ossei PPS, Nguah BS, Anto B.P et al. Iron deficiency anaemia in Children with congenital heart disease at a Teaching hospital in Ghana. *Heliyon* 2020; 6(2): e03408
 8. Fordjour F, Buabeng KO. Antimalarial usage in pregnancy: A cross sectional study in the Bono Regions of Ghana. *STU International Journal of Technology* 2020; 1:7, 13-27
 9. Boachie-Ansah P, Anto B, Marfo A (2019). Reuse of patients own drugs in hospitals in Ghana, the evidence to support policy, *BMC Health Service Research* 2019.
 10. Mensah, K.B., Oosthuizen, F., Bangalee, V. (2020). Cancer health promotion in Ghana: A survey of community pharmacists' perception and barriers. *J Oncol Pharm Pract*. 26(6):1361-1368.
 11. Kusi, G., Mensah, A. B.B., Mensah, K.B., Dzomeku, V. M., Apiribu, F., & Duodu, P. A, (2020). Caregiving motivations and experiences among family caregivers of patients living with advanced breast cancer in Ghana. *PLoS One*. 15(3): e0229683.
 12. Kusi G, Mensah, A. B.B., Mensah, K.B., Dzomeku, V. M., Apiribu, F., Duodu, P. A, Adamu B, Agbadi P& Bonsu OK. (2020). The experiences of family caregivers living with breast cancer patients in low-and middle-income countries: A systematic review. *Syst Rev* 9, 165 <https://doi.org/10.1186/s13643-020-01408-4>.

13. Mensah, K. B., & Mensah, A. B. B. (2020). Cancer control in Ghana: A narrative review in global context. *Heliyon*, 6(8), e04564. doi: 10.1016/j.heliyon.2020.e04564.
14. Wiafe, E., Mensah, K. B., Mensah, A. B. B., Bangalee, V., & Oosthuizen, F. (2020). The awareness of women on prostate cancer: a mixed-methods systematic review protocol. *Systematic reviews*, 9(1), 1-6.
15. Mensah KB, Mensah ABB, Bangalee V, Oosthuizen F. (2020). Awareness is the first step: What Ghanaian community pharmacists know about cancer. *Journal of Oncology Pharmacy Practice*, doi:10.1177/1078155220955211.
16. Mensah ABB, Adamu B, Mensah KB, Dzomeku VM, Agbadi P, Kusi G, Felix Apiribu. (2020). Exploring the social stressors and resources of husbands of women diagnosed with advanced breast cancer in their role as primary caregivers in Kumasi, Ghana. *Support Care Cancer*. doi: 10.1007/s00520-020-05716-2.
17. Michael, H. U., Naidoo, S., Mensah, K. B., Ramlall, S., & Oosthuizen, F. (2020). The Impact of Antiretroviral Therapy on Neurocognitive Outcomes Among People Living with HIV in Low-and Middle-Income Countries (LMICs): A Systematic Review. *AIDS and Behavior*, 1-32. DOI: 10.1007/s10461-020-03008-8.
18. Mensah KB, Mensah ABB, Attakorah J, Bangalee V, Oosthuizen F (2020). A systematic review protocol of the antiviral activity of chloroquine and hydroxychloroquine against COVID-19. *Sys Rev Pharm* 2020;11(11):1362-1365.
19. Okyere P, Okyere I, Ephraim RKD, Attakorah J, Osafo C, Arhin B, Bachelie S and Abaka-Yawson A. Spectrum and Clinical Characteristics of Renal Disease in Ghanaian Adults. A 13-year Retrospective study. *The International Journal of Nephrology*. 2020
20. Adjei R, Perditer Okyere P, Boateng AE, Okyere I, Osei AF, Frimpong S, Odoom, FM, Attakorah J. (2020). Factors influencing Knowledge Levels among hypertensive patients receiving treatment at The Komfo Anokye Teaching Hospital in Kumasi, Ghana; a Cross-sectional study. *African journal of current Medical Research*, 2020, 4: 2.

CONFERENCE PROCEEDINGS

1. Amartey AO, Buabeng KO, Tengey S, Maru SM; Availability, Use and Disposal of Malaria and HIV Rapid Diagnostic Test kits (RDTs) in Health facilities in the Greater Accra Region of Ghana. *Global virtual Summit on Healthcare and Management*, November 5th to 6th 2020

2. Kwakye AO, Buabeng KO, Opare-Addo MN, Owusu-Dabo E; Impact of pharmaceutical care intervention in hypertension and diabetes comorbid patients at a Municipal hospital in Ghana. In the proceedings of the Medicines Utilisation Research in Africa (MURIA) virtual Conference held on the 13th and 14th October 2020 and published online at <https://muria.mandela.ac.za>
3. Amponsah OKE, Buabeng KO, Owusu-Ofori A, Ayisi-Boateng NK, Hameen – Anttila K, Enlund H; Point Prevalence Survey of Antibiotic Consumption Across Three Hospitals in Ghana. In the proceedings of the Medicines Utilisation Research in Africa (MURIA) virtual Conference held on the 13th and 14th October 2020 and published online at <https://muria.mandela.ac.za>
4. Martey AO, Buabeng KO, Maru SH, Peeling R; Assessing the Quality of Malaria and HIV Rapid Diagnostic Test (RDT) kits in Health Facilities including Retail Medicines Outlets in the Greater Accra Region of Ghana. In the proceedings of the Medicines Utilisation Research in Africa (MURIA) virtual Conference held on the 13th and 14th October 2020 and published online at <https://muria.mandela.ac.za>
5. Kwakye AO, Buabeng KO, Opare-Addo MN, Owusu-Dabo E; Knowledge of hypertension and diabetes comorbid patients about their medication in a Hospital in Ghana. *Pharmacy Education* 2020; 20 (3): 117, presented at the Virtual 80th International Pharmaceutical Federation Conference
6. Nsutebu NS, Owusu IK, Buabeng KO, Bonsu KO. Ambulatory blood pressure monitoring and management of hypertension at a cardiac clinic in Kumasi Metropolis, Ghana. In the proceedings of the 79th World Congress of Pharmacy and Pharmaceutical Sciences, International Pharmaceutical Federation Conference in Abu Dhabi National Exhibition Centre, United Arab Emirates, 2019
7. Agayarko-Poku T, Buabeng KO, Owusu Ofori A, Adu-Sarkodie Y. Neisseria gonorrhoeae infections among people living with HIV on ART at STI clinic in Kumasi, Ghana. In the proceedings of STI and HIV 2019 World Congress (Joint meeting of ISSTD/ IUSTI) in Vancouver, Canada, 2019, published in *Sex Transm Infect* 2019; 95 (1)
8. Agayarko-Poku T, Owusu-Ofori A, Buabeng KO, Adu-Sarkodie Y. Burden of Ophthalmia Neonatorum among babies of PLHIV at a District Hospital in Ghana. In the proceedings of STI and HIV 2019 World Congress (Joint meeting of ISSTD/ IUSTI) in Vancouver, Canada, 2019, published in *Sex Transm Infect* 2019; 95 (1)

Plant Protects against Ethanol-Induced Gastric Mucosal. *Biochemistry Research International*, Vol. 2020, Article ID 7656127, 9 pages <https://doi.org/10.1155/2020/7656127>

4. Arhin, S.M., Mensah, K.B., Agbeno, E., Badii, V.S., Ansah, C., (2019). Pharmacotherapy of infertility in Ghana: Retrospective Study at the Cape Coast Teaching Hospital. *Journal of Pharmaceutical Policy and Practice*, 12: (28) 1-10. <https://doi.org/10.1186/s40545-019-0191-0>
5. Owusu G., Obiri D.D., Ainooson G.K., Osafo N., Antwi A.O., Duduyemi B.M., Ansah C. (2020). Acetic Acid-Induced Ulcerative Colitis in Sprague Dawley Rats Is Suppressed by Hydroethanolic Extract of *Cordia vignei* Leaves through Reduced Serum Levels of TNF- and IL-6. *International Journal of Chronic Diseases*. 2020:1 – 11.
6. Huber M., Cato A.C.B., Ainooson G.K., Freichel M., Tsvilovskyy V., Jessberger, R., Riedlinger E., Sommerhoff C.P., Bischoff S.C., (2019). Regulation of the pleiotropic effects of tissue resident mast cells. *J Allergy Clin Immunol*. 99: 812-820
7. Hitch G., Danquah C.A., Owusu-Ofori A., Agyarko-Poku T., Manfrin A., Owusu-Dabo E., Buabeng K.O. (2020). Public perceptions on the use of antibiotics at a market place in Kumasi, Ghana: A cross-sectional study. *Global Journal of Medicine and Public Health* 2020; Vol. 9, issue 1.
8. Adu JK, Amengor CD, Mohammed NI, Danquah CA, Ansah CO, Gbadago DD, Sarpong-Agyapong J. (2020). Synthesis and In Vitro Antimicrobial and Anthelmintic evaluation of Naphtholic and Phenolic Azo Dyes. *Journal of Tropical Medicine*, (2):1-8. DOI.org/10.1155/2020/4850492.
9. Danquah CA, Ativui S, Gibbons S, Bhakta S. (2020). Andrographolide, a major metabolite of *Andrographis paniculata* (Acanthaceae) shows Antifibrotic and Antioxidant properties. *Journal of Phytopharmacology*, 9(1): 12-17. DOI: 10.31254/phyto.2020.9103
10. Owusu F, Boakye-Gyasi, M. E. Mante, P. K., Ekuadzi, E., Ofori-Kwakye, K., Woode, E. (2019). Formulation and Evaluation of Sustained Release Matrix Tablets of *Capparis erythocarpos* Roots Extract to Improve Patient Compliance in Management of Arthritis. *Scientific African*, 2019.
11. Twumasi, M.A., Tandoh, A., Mante, P.K., Ekuadzi, E., Boakye-Gyasi, M.E., Benneh, C.K., Kumadoh, D., and Woode, E. (2019). Leaves and stems of *Capparis erythocarpos*, more sustainable than roots, show antiarthritic effects. *J. Ethnopharmacol.*, [111890](https://doi.org/10.1016/j.jep.2019.111890).
12. Twumasi, M.A., Ekuadzi, E., Mante P.K., Boakye-Gyasi, M.E., Mensah, M.L.K., and Woode, E. (2019). Pharmacognostic Studies of the Leaves, Stem and

- Root of *Capparis erythocarpos* Isert (Capparaceae). *Pharmacog J.*, 11(1): 112-118.
13. Kumbol, V. W.-A., Abotsi, W. K. M., & Biney, R. P. (2020). Antidepressant-like effect of *Albizia zygia* root extract in murine models. *Journal of Basic and Clinical Physiology and Pharmacology*, 20190310, eISSN 2191-0286 (Ahead of print).
 14. Jibira Y., Boakye-Gyasi E., Abotsi W.K.M., Amponsah I.K., Adongo D.W., Woode E. (2020). Hydroethanolic Stem Bark Extract of *Burkea africana* Attenuates Vincristine-Induced Peripheral Neuropathy in Rats. *Advances in Pharmacological and Pharmaceutical Sciences*, 2020:7232579
 15. Sia DK, Mensah KB, Opoku-Aggyemang T, Folitse RD, Obiri DD. (2020). Mechanisms of ivermectin-induced wound healing. 2020. *BMC Veterinary Research*, 16(1): 1-2.
 16. Forkuo AD, Mensah KB, Ameyaw EO, Antwi AO, Kusi-Boadum NK, Ansah C. (2020). Antiplasmodial and Antipyretic Activity and Safety Evaluation of the Methanolic Leaf Extract of *Murraya exotica* (L.). *Journal of Parasitology Research*. 5;2020.
 17. Aliu M, Mensah KB, Forkuo A, Adu-Gyamfi PK, Ansah C. (2020). Ethanolic Stem Bark Extract of *Terminalia ivorensis* A. Chev. Protects Against Potassium Dichromate–Induced Nephrotoxicity in Rats. *Scientific African*, 10: e00410
 18. Gyamfi PK, Mensah KB, Arhin SM, Moomin A. HAART therapy in Ghana: comparative assessment of the effectiveness of different HAART combinations at Komfo Anokye Teaching Hospital. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2020 29;12(3)
 19. Opoku-Agyemang T, Amponsah MP, Bonnah SG, Mensah KB, Jarikre TA, Emikpe BO. (2020). Field Evaluation of Some Selected Medicinal Plants for the Treatment of Piglet Diarrhoea in Ghana. *African Journal of Biomedical Research*. 31;23(1):107-10.
 20. Mensah KB and Adu-Gyamfi PK. To legalize cannabis in Ghana or not to legalize? Reviewing the pharmacological evidence. *Arch Pharm Pharma Sci*. 3: 082-088.
 21. Farr H M, Donkoh A, Boateng MK, Mensah KB. (2019). Effect of variously-processed rubber seed meals on reproductive performance: The use of Sprague-Dawley laboratory rats as model for pigs. *Journal of Animal Science and Veterinary Medicine*. 4: 167-172

22. Farr H M, Donkoh A, Boateng MK, Mensah KB. (2019). Evaluation of methods of processing rubber seed meal in terms of chemical composition and energy value. *Livestock Research for Rural Development*. 31
23. Forkuo AD, Mensah KB, Ameyaw EO, Antwi AO, Kusi-Boadum NK and Charles Ansa C. (2020) Antiplasmodial and Antipyretic Activity and Safety Evaluation of the Methanolic Leaf Extract of *Murraya exotica* (L.) *Journal of Parasitology Research*, Volume 2020, Article ID 1308541, 8 pages <https://doi.org/10.1155/2020/1308541>
24. Yeboah, P., Forkuo, A.D., Amponsah, O.K.O., Adomako, N.O., Abdin, A.Y., Nasim, M.J., Werner, P., Panyin, A.B., Emrich, E. and Jacob, C. (2020). Antimalarial Drugs in Ghana: A Case Study on Personal Preferences. *Sci*, 2: 49.
25. Mensah-Kane, P, Mensah K.B, Antwi A.O, Forkuo A.D, Ansa C. Cryptolepine, the major alkaloid of *Cryptolepis sanguinolenta* (Lindl.) Schlechter (Apocynaceae), attenuates early and late-phase symptoms of asthma. *Scientific African*, Volume 9, 2020, e00540. doi.org/10.1016/j.sciaf.2020.e00540.
26. Baah MK, Mensah AY, Asante-Kwatia E, Amponsah IK, Forkuo AD, Harley BK, Adjei S. In Vivo Antiplasmodial Activity of Different Solvent Extracts of *Myrianthus libericus* stem Bark and Its Constituents in Plasmodium berghei-Infected Mice. *Evid Based Complement Alternat Med*. 2020;2020 :8703197. doi: 10.1155/2020/8703197. PMID: 32382310; PMCID: PMC7191442.
27. Quartey, A. K., Jibira, Y., Forkuo, A.D, Ayensu, I., Oduro-Kwarteng, A. A., Asumah, S. E., Noah, P. (2020). Hydroethanolic stem bark extract of *Vernonia amygdalina* Del. (Asteraceae) suppresses yeast-induced pyrexia and Plasmodium berghei malaria in murine models. *Journal of Medicinal Plants Research*, 14(6): 258-264.
28. Essel, L.B., Obiri, D.D., Osafo, N., Antwi, A.O. and Duduyemi, M.B. (2020). Ulcerative Colitis Induced with Acetic Acid is ameliorated by *Antrocaryon micraster* through Reduced Serum Levels of Tumor Necrosis Factor Alpha and Interleukin-6 in Sprague Dawley Rats. *Pharmacognosy Research*, 12(1): 85. 10.4103/pr.pr_75_19.
29. Aidoo, D.B., Obiri, D.D., Osafo, N., Antwi, A.O., Essel, L.B., Duduyemi, B.M., and Ekor, M. (2019). Allergic Airway-Induced Hypersensitivity Is Attenuated by Bergapten in Murine Models of Inflammation. *Advances in Pharmacological Sciences*, Article ID 6097349, 12 pages <https://doi.org/10.1155/2019/6097349>.

BOOK CHAPTER CONTRIBUTIONS

1. Oyindamola, E.A., Agyemang, M.K., Owusu-Sarfo, J., Yeboah, O.K., **Osafo, N.** (2020). Microglial mitophagy and neurodegenerative disorders. In: Quality control of cellular protein in neurodegenerative disorders. 1st Ed. Md. Sahab Uddin and Ghulam Md. Ashraf. *IGI Global*. pp. 88-128.
2. **Osafo, N.**, Obeng, S., Obiri, D.D., Yeboah, O.K., Essel, L.B. (2020). Pharmacological management of Parkinson's disease. In: Advances in neuropharmacology: drugs and therapeutics. 1st Ed. Md. Sahab Uddin and Mamunur Rashid. *Apple Academic Press*. pp 151-173. ISBN: 978-1-77188-797-7.
3. **Osafo, N.**, Owusu-Sarfo, J., Obiri, D.D. (2019). Oxidative damage and antioxidative defense mechanisms in inflammation. In: Oxidative stress and antioxidant defense: biomedical value in health and diseases. Ed. Sahab Uddin and Aman B. Upaganlawar. *Nova Science Publishers, INC*. pp 231-256. ISBN: 978-1-53615-687-4.
4. **Osafo, N.**, Owusu-Sarfo, J., Oyindamola, E.A., Ankrah, S.N.A., Obiri, D.D. (2019). Antioxidant activity and cancer. In: Oxidative stress and antioxidant defense: biomedical value in health and diseases. Ed. Sahab Uddin and Aman B. Upaganlawar. *Nova Science Publishers, INC*. pp 275-296. ISBN: 978-1-53615-687-4.
5. Boakye, Y.D., **Osafo, N.**, Danquah, C.A., Adu, F., Agyare, C. (2019). Antimicrobial agents: antibacterial agents, anti-biofilm agents, antibacterial natural compounds, and antibacterial chemicals. In: Antimicrobials, antibiotic resistance, antibiofilm strategies and activity methods. Ed. Sahra Kirmusaoglu. *InTech – open science | open minds*. DOI: <http://dx.doi.org/10.5772/intechopen.82560>
6. **Osafo, N.**, Obiri, D.D., Danquah, O.K., Yeboah, K.O., Antwi, A.O., Opong, M.B. (2019). Oxidative stress and neurodegeneration. In: Handbook of research on critical examination of neurodegenerative disorders. Ed. Shah Amran and Md. Sahab Uddin. *IGI Global*. pp. 24-47. ISBN 9781522552826.
7. **Osafo, N.**, Obiri, D.D., Yeboah, K.O., Minkah, A.B.P. (2019). Amyotrophic lateral sclerosis: A predominant form of degenerative disease of the motor neuron system. In: Handbook of research on critical examination of neurodegenerative disorders. Ed. Shah Amran and Md. Sahab Uddin. *IGI Global*. pp. 322-346. ISBN 9781522552826.
8. Boakye, Y.D., Osafo, N., Danquah, C. A., Adu, F., Agyare, C. (2019). Antimicrobial Agents: Antibacterial Agents, Anti-biofilm Agents, Antibacterial Natural Compounds, and Antibacterial Chemicals. In: Kirmusaoglu, S. (Editor),

'Antimicrobials', InTech Open Science, ISBN 978-1-78985-790; Print ISBN 978-1-78985-789-4.

9. Danquah C.A., Osei-Djarbeng S., Appiah T., Boakye Y.D., Francis Adu F. (2019). Combating Biofilm and Quorum Sensing: A New Strategy to Fight Infections. In the book: Bacterial Biofilms. DOI: 10.5772/intechopen.89227. Online ISBN 978-1-78985-900-3. eBook (pdf) ISBN 978-1-83968-819-5. Print ISBN 978-1-78985-899-0.

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Debrah LB, Mohammed A, Osei-Mensah J, Mubarik Y, Agbenyega O, Ayisi-Boateng NK, Pfarr K, Kuehlwein JM, Klarmann-Schulz U, Hoerauf A, Debrah AY (2020). Morbidity management and surveillance of lymphatic filariasis disease and acute-dermatolymphangioadenitis attacks using a mobile phone-based tool by community health volunteers in Ghana. *PLoS Negl Trop Dis.*;14(11):e0008839.
2. Morhe EKS, Anto EO, Coall DA, Adua E, Debrah AY, Addai-Mensah O, Owusu M, Owiredu WK, Obirikorang C, Asiamah EA, Acheampong E, Asamoah EA, Abradu L, Anto AO, Wang Y, Hou H, Wang W (2020). SARS-CoV-2 updates in a West African population and precautionary measures for sustaining quality antenatal care delivery. *J Glob Health.* 10(2):020365. doi: 10.7189/jogh.10.020365.
3. Addai-Mensah O, Dinko B, Noagbe M, Ameke SL, Annani-Akollor ME, Owiredu EW, Mensah K, Tackie R, Togbe E, Agyare-Kwabi C, Gyasi C, Adu-Gyamfi C, Debrah AY (2020). Plasmodium falciparum histidine-rich protein 2 diversity in Ghana *Malar J.* 19(1):256-265
4. Danquah KO, Mensah K, Nkansah C, Appiah SK, Noagbe M, Hardy Y, Ntiamoah DO, Boateng LA, Annani-Akollor ME, Owiredu EW, Debrah AY, Addai-Mensah O (2020). Molecular Characterization of Glucose-6-Phosphate Dehydrogenase: Do Single Nucleotide Polymorphisms Affect Hematological Parameters in HIV-Positive Patients? *J Trop Med.*:5194287. doi: 10.1155/2020/5194287.
5. Horton J, Klarmann-Schulz U, Stephens M, Budge PJ, Coulibaly Y, Debrah A, Debrah LB, Krishnasastri S, Mwingira U, Ngenya A, Wanji S, Weerasooriya M, Yahathugoda C, Kroidl I, Deathe D, Majewski A, Sullivan S, Mackenzie C, Nutman TB, Shott JP, Weil G, Ottesen E, Hoerauf A (2020). The design and development of a multicentric protocol to investigate the impact of adjunctive doxycycline on the management of peripheral lymphoedema caused by lymphatic filariasis and podoconiosis. *Parasit Vectors*:13(1):155-165
6. Wiafe, Y.A., Whitehead, B., Venables, H. and Dassah, E.T., 2019. Comparing intrapartum ultrasound and clinical examination in the assessment of fetal head position in African women. *Journal of Ultrasonography*, 19(79), p.249.
7. Owusu, I.K. and Wiafe, Y.A., 2019. Left Ventricular Dysfunction: The Perspective of Echocardiography in Ghana. *World Journal of Cardiovascular Diseases*, 9(9), pp.639-648.

8. Wiafe, Y.A., Adu-Bredu, T.K., Appiah-Denkyira, K. and Senaya, C.M., 2020. Antenatal diagnosis of vasa previa: report of three cases in an African setting. *The Pan African Medical Journal*, 37.
9. Gyamfi, D., Wiafe, Y.A., Ofori Awuah, E., Adu, E.A. and Boadi, E.K., 2020. Goitre Prevalence and Urinary Iodine Concentration in School-Aged Children in the Ashanti Region of Ghana. *International journal of endocrinology*, 2020.
10. Venables, H.K., Wiafe, Y.A. and Adu-Bredu, T.K., 2020. Value of Doppler ultrasound in early detection of diabetic kidney disease: A systematic review and meta-analysis. *Ultrasound*, p.1742271X20977051.
11. Dorcas Ohui Owusu, Michael Owusu, Bright Afriyie Owusu. Human defensins and Th-1 cytokines in hepatitis C viral infection. *Pan African Medical Journal* Volume 37, Article 103, 29 Sep 2020 | 10.11604/pamj.2020.37.103.25211
12. Dorcas Ohui Owusu, Richard Phillips, Michael Owusu, Fred Stephen Sarfo and Margaret Frempong. Increased levels of circulating IL-10 in persons recovered from hepatitis C virus (HCV) infection compared with persons with active HCV infection. *BMC Research Notes* volume 13, Article number: 472 (2020)
13. Emmanuel Komla Senanu Morhe, Enoch Odame Anto, David Antony, Eric Adua, Alexander Yaw Debrah, Otchere Addai-Mensah, Michael Owusu, William KBA Owiredu, Christian Obirikorang, Emmanuel Akomanin Asiamah, Emmanuel Acheampong, Evan Adu Asamoah, Lydia Abradu, Agartha Odame Anto, Youxin Wang, Haifeng Hou and Wei Wang, SARS-CoV-2 updates in a West African population and precautionary measures for sustaining quality antenatal care delivery. *J Glob Health*. 2020 Dec; 10(2): 020365. Published online 2020 Sep 30. doi: 10.7189/jogh.10.020365m PMID: PMC7567409/PMID: 33110560
14. Vitus Burimuah, Augustina Sylverken Michael Owusu, PhilipEl-Duah, Richmond Yeboah Jones Lamptey, Yaw Oppong Frimpong, Olivia Agbenyegah, Raphael Folitse, WilliamTasiame, BenjaminEmikpe, Eddie Williams, Owiredu Samuel Oppong, Yaw Adu-Sarkodie, Christian Drost. Sero-prevalence, cross-species infection and serological determinants of prevalence of Bovine Coronavirus in Cattle, Sheep and Goats in Ghana. *Veterinary Microbiology*, Volume 241, February 2020, 108544
15. Ellis Owusu-Dabo, Godfred Acheampong, Michael Owusu, Alex Owusu-Ofori Isaac Osei, Nimako Sarpong, Se Eun Park, Florian Marks. Identification of multidrug-resistant salmonella plasmid variants using polymerase chain reaction (PCR) based replicon typing technique in Ghana., *Africa Health Agenda International Journal*. 2019;1:6

16. Acheampong G, Owusu M, Owusu-Ofori A, Osei I, Sarpong N, Sylverken A, Kung HJ, Cho ST, Kuo CH, Park SE, Marks F, Adu-Sarkodie Y, Owusu-Dabo E. Chromosomal and plasmid-mediated fluoroquinolone resistance in human *Salmonella enterica* infection in Ghana. *BMC Infect Dis*. 2019 Oct 28;19(1):898. doi: 10.1186/s12879-019-4522-1. PMID: 31660876
17. Park SE, Toy T, Cruz Espinoza LM, Panzner U, Mogeni OD, Im J, Poudyal N, Pak GD, Seo H, Chon Y, Schütt-Gerowitt H, Mogasale V, Ramani E, Dey A, Park JY, Kim JH, Seo HJ, Jeon HJ, Haselbeck A, Conway Roy K, MacWright W, Adu-Sarkodie Y, Owusu-Dabo E, Osei I, Owusu M, Rakotozandrindrainy R, Soura AB, Kabore LP, Teferi M, Okeke IN, Kehinde A, Popoola O, Jacobs J, Lunguya Metila O, Meyer CG, Crump JA, Elias S, MacLennan CA, Parry CM, Baker S, Mintz ED, Breiman RF, Clemens JD, Marks F. The Severe Typhoid Fever in Africa Program: Study Design and Methodology to Assess Disease Severity, Host Immunity, and Carriage Associated With Invasive Salmonellosis. *Clin Infect Dis*. 2019 Oct 30;69(Suppl 6):S422-S434. doi: 10.1093/cid/ciz715. PMID: 31665779
18. Owusu M, Acheampong G, Annan A, Marfo KS, Osei I, Amuasi J, Sarpong N, Im J, Mogeni OD, Chiang HY, Kuo CH, Jeon HJ, Panzner U, Park SE, Marks F, Owusu-Dabo E, Adu-Sarkodie Y. *J Ralstonia mannitolilytica* sepsis: a case report. *Med Case Rep*. 2019 Oct 26;13(1):318. doi: 10.1186/s13256-019-2235-0. PMID: 31653273
19. Obirikorang, C., Opoku, S. K., Obirikorang, Y., Acheampong, E., Yorke, J., Donkoh, E. T., Chidera, C., Sarpong, D., Anto, E.O., Issahaku, R. & Appeaning, M. (2019). Awareness and occupational exposures to needlestick injuries among healthcare workers: A quantitative assessment in a Ghanaian Metropolis. *Global Journal on Quality and Safety in Healthcare*, 2(3), 70-77.
20. Anto, E. O., Roberts, P., Coall, D., Turpin, C. A., Adua, E., Wang, Y., & Wang, W. (2019). Integration of suboptimal health status evaluation as a criterion for prediction of preeclampsia is strongly recommended for healthcare management in pregnancy: a prospective cohort study in a Ghanaian population. *European Journal of Predictive Preventive and Personalised Medicine (EPMA) Journal*, 10(3), 211-226.
21. Owiredu, W. K., Ofori, P. N., Turpin, C. A., Obirikorang, C., Acheampong, E., Anto, E. O., ... & Adu, E. A. (2019). Weight management merits attention in women with infertility: a cross-sectional study on the association of anthropometric indices with hormonal imbalance in a Ghanaian population. *BMC research notes*, 12(1), 545.
22. Yakubu, M., Laing, E. F., Nsiah, P., Anthony, R., Acheampong, E., Asamoah, S. K., Anto, E.O., Djokoto, G., Adu Asamoah, E. & Owiredu, E. W. (2019). Vitamin B12 deficiency in type 2 diabetic patients on metformin: a cross-

sectional study from South-Western part of Ghana. *Alexandria Journal of Medicine*, 55(1), 58-67.

23. Baah, E., Obirikorang, C., Asmah, R. H., Acheampong, E., Anto, E. O., Yakass, M. B., & Mawusi, D. (2019). Seminal Antioxidant Capacity to Oxidative Stress Induced by Electromagnetic Waves Emitting from Cellular Phones on Sperm Quality: An in Vitro Simulation Model. *Advances in Reproductive Sciences*, 7(4), 94-105.
24. Gyamfi, D., Obirikorang, C., Acheampong, E., Asamoah, E. A., Sampong, B. B., Batu, E. N., & Anto, E. O. (2019). Weight management among school-aged children and adolescents: a quantitative assessment in a Ghanaian municipality. *BMC pediatrics*, 19(1), 376.
25. Yang, C. X., Wang, Y., Lu, Q., Lian, Y. N., Anto, E. O., Zhang, Y., & Wang, W. (2020). Chronic stress influences nociceptive sensitivity of female rats in an estrous cycle-dependent manner. *Stress*, 23(4), 386-392.
26. Anto, E. O., Obirikorang, C., Acheampong, E., Adua, E., Donkor, S., Afranie, B. O., ... & Adu, E. A. (2019). Renal abnormalities among children with sickle cell conditions in highly resource-limited setting in Ghana. *PloS one*, 14(11), e0225310.
27. Owiredu, W. K. B. A., Brenya, P. K., Osei, Y., Laing, E. F., Okrah, C. O., Obirikorang, C., Anto, E. O., Acheampong, E. & Donkor, S. (2019). Evaluation of serum iron overload, AST: ALT ratio and log 10 ferritin: AST ratio among schizophrenia patients in the Kumasi Metropolis, Ghana: a case-control study. *BMC research notes*, 12(1), 802.
28. Anto, E., Roberts, P., Coall, D., Turpin, C., Afriyie, O. O., & Wang, W. (2019). Evaluation of Angiogenic growth mediators and Oxidative DNA damage marker in serum and placentas of women with preeclampsia: a case-control study in Ghana. *Placenta*, 83, e107.
29. Obirikorang, C., Acheampong, E., Quaye, L., Yorke, J., Amos-Abanyie, E. K., Akyaw, P. A., Anto, E. O., Bani, S. B., Asamoah, E. A. & Batu, E. N. (2020). Association of single nucleotide polymorphisms with dyslipidemia in antiretroviral exposed HIV patients in a Ghanaian population: A case-control study. *PloS one*, 15(1), e0227779.
30. Anto, E. O., Owiredu, W. K. B. A., Adua, E., Obirikorang, C., Fondjo, L. A., Annani-Akollor, M. E., ... & Donkor, S. (2020). Prevalence and lifestyle-related risk factors of obesity and unrecognized hypertension among bus drivers in Ghana. *Heliyon*, 6(1), e03147.
31. Anto, E. O., Roberts, P., Coall, D. A., Adua, E., Turpin, C. A., Tawiah, A., Wang, Y. & Wang, W. (2020). Suboptimal health pregnant women are associated

- with increased oxidative stress and unbalanced pro-and antiangiogenic growth mediators: a cross-sectional study in a Ghanaian population. *Free Radical Research*, 54(1), 27-42.
32. Wang, H., Tian, Q., Zhang, J., Liu, H., Zhang, X., Cao, W., Zhang, J., Anto, E.O., Li, X., Wang, X. & Liu, D. (2020). Population-based case-control study revealed metabolomic biomarkers of suboptimal health status in Chinese population—potential utility for innovative approach by predictive, preventive, and personalized medicine. *EPMA Journal*, 1-14.
 33. Asamoah, E. A., Obirikorang, C., Acheampong, E., Annani-Akollor, M. E., Laing, E. F., Owiredu, E. W., & Anto, E. O. (2020). Heritability and Genetics of Type 2 Diabetes Mellitus in Sub-Saharan Africa: A Systematic Review and Meta-Analysis. *Journal of diabetes research*, 2020.
 34. Nsiah, I., Danquah, C. B., Anto, E. O., Obirikorang, C., Wiremu, W. K. B. A., Acheampong, E., Obirikorang, Y., Adu, E.A., Donkor, S. & Odame-Anto, A. (2020). Factors associated with knowledge, attitude and practice towards hepatitis B infection among pregnant women attending antenatal clinic in the Kumasi Metropolis, Ghana: a multi-centre hospital-based cross-sectional study. *PAMJ-One Health*, 2(24).
 35. Güler, A., Lopez Venegas, M., Adankwah, E., Mayatepek, E., Nausch, N., & Jacobsen, M. (2020). Suppressor of cytokine signalling 3 is crucial for interleukin-7 receptor re-expression after T-cell activation and interleukin-7 dependent proliferation. *European Journal of Immunology*, 50(2), 234-244.
 36. Adankwah, E., Lundtoft, C., Güler, A., Franken, K. L., Ottenhoff, T. H., Mayatepek, E., ... & Jacobsen, M. (2019). Two-hit in vitro T-cell stimulation detects *Mycobacterium tuberculosis* infection in QuantiFERON negative tuberculosis patients and healthy contacts from Ghana. *Frontiers in Immunology*, 10, 1518.
 37. Adankwah, E., Nausch, N., Minadzi, D., Abass, M. K., Franken, K. L., Ottenhoff, T. H., ... & Jacobsen, M. (2020). Interleukin-6 and *Mycobacterium tuberculosis* dormancy antigens improve diagnosis of tuberculosis. *Journal of Infection*.
 38. Duduyemi, B. M., Agyemang, D. L., Adankwah, E., Nyarko, H., & Andoh, D. (2020). Knowledge, perception and screening of local dye workers regarding urinary bladder cancer in Ghana. *African Journal of Urology*, 26(1), 1-7.
 39. Duduyemi, B. M., Andoh, D., Adankwah, E., Nyarko, H., & Agyemang, D. (2020). The use of special stains in the detection of vascular invasion in cases of colon cancer in resource-limited settings in Africa. *Annals of Tropical Pathology*, 11(1), 21.

CONFERENCE PAPERS

1. Anto E.O, Roberts P, Coall D, Turpin C.A, Afriyie O.O, Wang W (2019). Uric acid as a surrogate marker for oxidative stress and incomplete vascular remodeling: a prospective study among African Preeclampsia women. Asian Pacific Congress of Hypertension (APCH)/ High Blood Pressure Research Council of Australia (HBPRCA) No.11, 24-27 November 2019. Brisbane convention centre, Australia
2. Anto E.O, Roberts P, Coall D, Turpin C.A, Afriyie O.O, Wang W (2019). Evaluation of Angiogenic growth mediators and Oxidative DNA damage marker in serum and placenta of women with preeclampsia: a case-control study in Ghana. International Federation of Placenta Association (IFPA)-2019 in collaboration with 8th Latin American Symposium on Maternal-Fetal Interaction and Placenta (VIII SLIMP). P2. 126. 10-13 September 2019. Catholic University of Argentina, Buenos Aires, Argentina
3. Anto E.O, Roberts P, Turpin C.A, Coall D, Adua E, Wang Y, Wang W, (2019). Algorithm of suboptimal health status, serum magnesium and calcium levels as a novel approach for prediction and identification of pregnant women likely to develop preeclampsia and adverse perinatal complications in a Ghanaian Population. B-155. 711st Annual Scientific Meeting, American Association of Clinical Chemistry (AACC). Anaheim Convention Centre, 4th August-8 August 2019. Anaheim, CA, USA.
4. Anto E.O, Roberts P, Turpin C.A, Coall D, Adua E, Wang Y, Wang W, (2019). Association of high suboptimal health status and imbalance in clinicobiochemical profile, oxidative stress biomarkers and Angiogenic growth mediators in early normotensive pregnancy as a potential risk assessment of cardiometabo-vascular risk and endothelial dysfunction: a cross-sectional study in a Ghanaian population. B-156. 711st Annual Scientific Meeting, American Association of Clinical Chemistry (AACC). Anaheim Convention Centre, 4th August-8 August 2019. Anaheim, CA, USA.

DEPARTMENT OF NURSING

ACADEMIC STAFF

Associate Professors:

- | | |
|------------|---------------------------------------|
| V. Dzomeku | PhD (South Africa), MPhil, BA (Legon) |
| V. Bam | PhD, MSc (Kumasi), BSc (Legon) |

Senior Lectures:

A. B. B. Mensah	PhD (South Africa), MPhil (Accra), BSc (Kumasi)
F. Apiribu	MPhil (Legon), MSc (Mutherlands), BA (legon)

Lecturers:

E. A. Boateng	PhD, MSc (UK), BSc (Kumasi)
A. Y. Lomotey	MPH (Legon), PG.Cert (UK), BSc (Legon)
A. K-A. Diji	MSc (UK), BSc (Kumasi)
^ P. Amooba	MSc (UK), BSc (Kumasi)
^ E. Asante	MSc (UK), BSc (Kumasi)
H. I. Budu	MSN (Cape Coast), BSc (Kumasi)
L. B. Owusu	MSc (Cape Coast), MSc (Kumasi), BSc

Assisstant Lecturers:

J. Kyei – Dompim	MPhil (Kumasi), BSc (Legon)
C. A. Poku	MPhil (Legon), BSc (Kumasi)
G. Kusi	MPhil (Kumasi), BSc (Legon)

^ *Study Leave*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Agyemang AF, Tei-Muro, AN, Dzomeku VM, Nakua EK, Duodu PA, Duah HO, Bentil BA & Agbadi P (2020). The prevalence and predictive factors of breast cancer screening among older Ghanaian women. *Heliyon* e03838.
2. Duodu AP, Duah OH, Dzomeku VM, Mensah ABB, Mensah JA, Darkwah E & Agbadi P (2020) Consistency of the determinants of early initiation of breast feeding in Ghana: Insights from four Demographic and Health Survey datasets. *International Health* 00:1-10.
3. Kusi G., Mensah, A.B.B Boamah, Mensah, K.B, Dzomeku, V.M, Apiribu F, Adade Duodu P. (2020). Caregiving motivations and experiences among family caregivers of patients living with advanced breast cancer in Ghana. *PLoS One Journal*.

4. Dzomeku, V.M., Boamah Mensah, A.B., Nakua, E.K. Agbadi P, Lori JR, Donkor P. (2020) "I wouldn't have hit you, but you would have killed your baby:" Exploring midwives' perspectives on disrespect and abusive Care in Ghana. *BMC Pregnancy Childbirth* 20, 15 <https://doi.org/10.1186/s12884-019-2691-y>.
5. Afaya A, Dzomeku VM, Bake EA (2020) Women's experiences of midwifery care immediately before and after caesarean section deliveries at a Public Hospital in the Western Region of Ghana. *BMC Pregnancy & Childbirth*. <https://doi.org/10.1186/s12884-019-2698-4>.
6. Dzomeku VM, Mensah ABB, Nakua EK, Agbadi P, Lori JR, Donkor P (2020). Developing a tool for measuring postpartum women's experiences of respectful maternity care at a tertiary hospital in Kumasi, Ghana. *Heliyon* 6 (2020) e04374
7. Afaya A, Azongo TB, Dzomeku VM, Afaya RA, Salia SM, Adataro P, Alhassan RK, Kusi Amponsah A, Atakro CA, Adadem D, Asiedu EO, Amuna P, Ayanore MA (2020) Women's knowledge and its associated factors regarding optimum utilisation of antenatal care in rural Ghana: A cross sectional study. *PLoS One Journal*.
8. Dzomeku, V.M., Boamah Mensah, A.B., Nakua, E.K. Agbadi P, Lori JR, Donkor P. (2020) Exploring midwives' understanding of respectful maternal care in Kumasi, Ghana: Qualitative inquiry *PLoS One*. 2020; 15(7): e0220538. doi: [10.1371/journal.pone.0220538](https://doi.org/10.1371/journal.pone.0220538)
9. Kusi, G., Mensah, A. B. B., Mensah, K. B., Dzomeku, V. M., Apiribu, F., Duodu, P. A., Bonsu, K. O. (2020). The experiences of family caregivers living with breast cancer patients in low-and middle-income countries: A systematic review. *Systematic Reviews*, 9(1), 1-18.
10. Mensah, A. B. B., Adamu, B., Mensah, K. B., Dzomeku, V. M., Agbadi, P., Kusi, G., & Apiribu, F. (2020). Exploring the social stressors and resources of husbands of women diagnosed with advanced breast cancer in their role as primary caregivers in Kumasi, Ghana. *Supportive Care in Cancer*, 1-13. <https://doi.org/10.1007/s00520-020-05716-2>.
11. Mensah, K. B., & Mensah, A. B. B. (2020). Cancer control in Ghana: A narrative review in a global context. *Heliyon*, 6(8), 1-6. <https://doi.org/10.1016/j.heliyon.2020.e04564>
12. Mensah, K. B., Mensah, A. B. B., Bangalee, V., & Oosthuizen, F. (2020). Awareness is the first step: What Ghanaian community pharmacists know about cancer. *Journal of Oncology Pharmacy Practice*, 0 (0), 1-10 <https://doi.org/10.1177/1078155220955211>.

13. Bonsu AB, Ncama BP (2019). Recognizing and appraising symptoms of breast cancer as a reason for delayed presentation in Ghanaian women: A qualitative study. *PloS one* 14, page 1-21. <https://doi.org/10.1371/journal.pone.0208773>.
14. Bonsu AB, Nami BP (2019) Integration of breast cancer prevention and early detection into a cancer palliative care model. *PLoS ONE* 14(3), page 1-19. <https://doi.org/10.1371/journal.pone.0212806>.
15. Bonsu AB, Ncama BP, Bonsu KO. (2019). Breast cancer knowledge, beliefs, attitudes, and screening efforts by micro-community of advanced breast cancer patients in Ghana. *International Journal of Africa Nursing Sciences* 2019:100155, page 1-7. <https://doi.org/10.1016/j.ijans.2019.100155>.
16. Bonsu AB, Ncama PB (2019). Clinicians' experiences and perspectives of breast cancer and possible integration of breast cancer prevention and early detection into palliative care. *International Journal of Africa Nursing Sciences* 2019, 11:100162, page 1-<https://doi.org/10.1016/j.ijans.2019.100162>.
17. Dzomeku, V. M., Mensah, B. A. B., Nakua, E. K., Agbadi, P., Lori, J. R., & Donkor, P. (2020b). Correction: Exploring midwives' understanding of respectful maternal care in Kumasi, Ghana: Qualitative inquiry. *PLoS ONE*, 15(8), 1-18. <https://doi.org/10.1371/journal.pone.0220538>.
18. Duodu PA, Duah HO, Dzomeku VM, Boamah Mensah AB, Aboagye Mensah J, Darkwah E, Agbadi P (2020). Consistency of the determinants of early initiation of breastfeeding in Ghana: insights from four Demographic and Health Survey datasets. *International health*, ihaa025, pages 1-10. <https://doi.org/10.1093/inthealth/ihaa025>
19. Asare, S. F., Boamah Mensah, A. B., & Asare, O. (2020). Structural Elements of Integrated Treatment System for Alcoholic Patients in Two Rehabilitation Centres in Ghana. *NUMID HORIZON*, 3(1), 44-53.
20. Oduro, E., Diji, A. K-A., Kusi, G., Amagyei, A., Kyei-Dompim, J., Lomotey, A., Boateng, E. & Budu, H. I. (2020). Children nurses' knowledge and attitudes on paediatric pain: A descriptive cross-sectional survey in a developing country. *Nurse Media Journal of Nursing* 10 (3) (in press).
21. Kusi Amponsah, A., Oduro, E., Bam V., Kyei-Dompim, J., Ahoto, C. K. & Axelin, A. (2020). Dynamics on the field: A focused study on the culture and context of pediatric pain management at four Ghanaian hospitals. *BMC Pediatrics*, 20: 529. <https://doi.org/10.1186/s12887-020-02399-w>
22. Auxier, J. N., Hakojärvi, H-R., Kusi Amponsah, A., Schley, A., Gaertner, L., Haddad Ringborg, C. & Sundgren, S. (2020). Sustainable practices in health science research: A critical reflection of doctoral students' contributions

at the fourth annual Baltic Sea Region Network in Personalized Health Care summer school. *International Practice Development Journal*, 10(2): 13. <https://doi.org/10.19043/ipdj.102.013>

23. Agyemang, J. B., Diji, A. K-A., Afaya, R. A., Boakye, H., Oduro, E., Amagyei, A. & Kyei-Dompim, J. (2020). Nursing and midwifery students' knowledge and attitudes regarding children's pain. *Journal of Research Development in Nursing and Midwifery*, 17(2): 17-26. <http://nursingjournal.goums.ac.ir/article-1-1203-en.html>
24. Kusi Amponsah, A., Bam, V., Stolt, M., Korhonen, J. & Axelin, A. (2020). Evaluating the content validity of two versions of an instrument used in measuring pediatric pain knowledge and attitudes in the Ghanaian context. *PLoS ONE*, 15(11): e0241983. DOI: 10.1371/journal.pone.0241983
25. Asante, E., Bam, V., Diji, A. K-A., Lomotey, A. Y., Boateng, A. O., Sarfo-Kantanka, O., Ansah, E. O. & Adjei, D. (2020). Pilot mobile phone intervention in promoting type 2 diabetes management in an urban area in Ghana: A randomized controlled trial. *The Diabetes Educator*, 46(5): 455-464. <https://doi.org/10.1177/0145721720954070>
26. Afaya, R. A., Bam, V., Azongo, T. B., Afaya, A., Kusi-Amponsah, A., Ajusiyyine, J. M. & Hamid, T. A. (2020). Medication adherence and self-care behaviours among patients with type 2 diabetes mellitus in Ghana. *PLoS ONE* 15(8): e0237710. DOI: 10.1371/journal.pone.0237710
27. Kokuro, M. & Diji, A. K-A. (2020). Utilisation and perceptions of cervical cancer screening services. *Africa Journal of Nursing and Midwifery*, 22(1): 16. <https://doi.org/10.25159/2520-5293/6228>
28. Kusi Amponsah, A., Kyei-Dompim, J., Bam V., Kyei, E. F., Oduro, E., Ahoto, C. K. & Axelin, A. (2020). Exploring the educational needs of nurses on children's pain management: A descriptive qualitative study. *Nursing Open*, 00: 1–9. DOI: 10.1002/nop2.459
29. Kusi Amponsah, A., Kyei-Dompim, J., Kyei, E. F., Oduro, E., Afaya, R. A. & Ahoto, C. K. (2020). Final year nursing students' knowledge and attitudes regarding children's pain. *Pain Research and Management*, 2020: 7283473. <https://doi.org/10.1155/2020/7283473>
30. Kusi Amponsah, A., Kyei, E. F., Agyemang, J. B., Boakye, H., Kyei-Dompim, J., Ahoto, C. K. & Oduro, E. (2020). Nursing-related barriers to children's pain management at selected hospitals in Ghana: A descriptive qualitative study. *Pain Research and Management*, 2020: 7125060. <https://doi.org/10.1155/2020/7125060>

31. Boateng, E. A., Kumi, L. O. & Diji, A. K-A. (2019). Nurses and midwives' experiences of using non-pharmacological interventions for labour pain management: A qualitative study in Ghana. *BMC Pregnancy and Childbirth*, 19:168. <https://doi.org/10.1186/s12884-019-2311-x>.
32. Bam V., Diji, A. K-A., Asante, E., Lomotey, A. Y., Adade, P., Akyeampong, B. A. (2020). Self-assessed competencies of nurses at an emergency department in Ghana. *African Journal of Emergency Medicine* 10(1): 8-12. <https://doi.org/10.1016/j.afjem.2019.09.002>.
33. Kusi Amponsah, A., Oduro, E., Bam V., Kyei-Dompim, J., Ahoto, C. K. & Axelin, A. (2019). Nursing students and nurses' knowledge and attitudes regarding children's pain: A comparative cross-sectional study. *PLoS ONE*, 14(10): e0223730. DOI: 10.1371/journal.pone.0223730.
34. Lomotey, A. Y., Bam, V., Diji, A. K-A., Asante, E., Asante, H. B. & Osei, J. (2019). Experiences of mothers with preterm babies at a Mother and Baby Unit of a tertiary hospital: A descriptive phenomenological study. *Nursing Open*, 00: 1-10. DOI: 10.1002/nop2.373.
35. Kusi Amponsah, A., Björn, A., Bam V. & Axelin, A. (2019). The effect of educational strategies targeted for nurses on pain assessment and management in children: An integrative review. *Pain Management Nursing* 20(6): 604-613. DOI: 10.1016/j.pmn.2019.03.005
36. Kyei, E. F., Boateng, E. A. & Diji, A. K-A. (2019). "I experience very sharp pain but it's on and off": A phenomenological study of postoperative pain experiences of patients in Ghana. *Journal of Advocacy, Research and Education*, 6(1): 20-27.
37. Apiribu, F., & Ncama, B. P. (2020). Evidence of perpetration of intimate partner violence among HIV positive couples: A systematic scoping review. *International Journal of Nursing and Midwifery*, 12(2), 43-50.
38. Apiribu, F., Ncama, B. P., & Duma, S. E. (2020). Forms of and Factors Associated with Perpetration of Intimate Partner Violence by Men on Their Female Partners Following HIV Status Disclosure in the Ashanti Region of Ghana: A Qualitative Study. *Global Journal of Health Science*, 12(6), 14-29.
39. Apiribu, F., Duma, S. E., & Ncama, B. P. (2020). Intimate Partner Violence Perpetration Following Status Disclosure: Narrative Literature Review. *Journal of Nursing and Health Science (IOSR-JNHS)*, 9(2), 14-20. DOI:10.9790/1959-0902071420.
40. Gariba, M., Salifu, Y., & Apiribu, F. (2020). Non-Ionising Medical Image Modality in Brain Tumour: Case Report. *MedLife Clinics*, 2(2), 1016.

Practices and One Health Approach. Nigerian Journal of Physiological Sciences, 35 (1): 4 – 9

2. Osei, F., Moses, M. O., Pambo, P., Baffour-Awuah, B., Asamoah, B., Afrifa, D., Appiah, E. J., Akwa, L.G. and Obour, A. (2020). Changes in cardiovascular parameters of a-university football athletes associated with short duration pre-tournament training. Scientific African, 8, e00285.
3. Tetteh, A. A. and Moses, M.O. (2020). Evidence of Hypertension in Healthy Children and Its Association with Body Composition and Aerobic Capacity ACTIVE: Journal of Physical Education, Sport, Health and Recreation. 9(2):116-121
4. Afrifa, D., Nsiah, K., Appiah, C. A., & Moses, O. M. (2020). Dietary Intake and Body Composition Characteristics of National Football League Players. International Journal of Sport Studies for Health, 3(1): e104103
5. Essaw, E., Moses, M.O., Afrifa, D., Acheampong, I.K., Mensah, W. and Owusu, L. (2019). Physical activity patterns and dietary habits of undergraduate students. Baltic Journal of Health and Physical Activity. 11(1): 115-123
6. Moses, M.O., Bohulu, A.S., Tetteh-Opai, A.A., Afrifa, D., Donkor, C., Essaw, E., Yaw, O.R., Ampong, J., Abban, E. and Acheampong, I.K. (2019). Physiological and Motor Performance Parameters of Female Athlete and Non-Athlete Students in a Ghana University: A Comparative Pilot Study. Zahedan Journal of Research in Medical Sciences, 21(2):e85975.
7. Doku, A.O., Moses, M.O., Acheampong, I.K., Gyamfi, I., Agbavor, C., Akwa, L.G., Osei, F., Appiah, E.J., Tiguridaane, I.A. and Deku, P.D-G. (2019). Physiological, anthropometric parameters, and balance skill response of healthy bankers to fitness training. Journal of exercise rehabilitation, 15(2): 242-248.

SCHOOL OF PUBLIC HEALTH

DEPARTMENT OF HEALTH POLICY, MANAGEMENT AND ECONOMICS

ACADEMIC STAFF

Senior Lecturers:

K. A. Mensah	PhD (UK), MSc (Kumasi), BSc (Tamale)
P. Agyei-Baffour	PhD, MA, BA (Kumasi), PG.Dip (Denmark)

Lecturer:

P. Twum	PhD
D. Opoku	PhD

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Amissah, J., Badu, E., Agyei-Baffour, P., Nakua, E. K. & Mensah, I. (2019). Predisposing factors influencing occupational injury among frontline building construction workers in Ghana. *BMC research notes*, 12(1), 728.
2. Boadu, R. O., Agyei-Baffour, P. & Edusei, A. K. (2019). Using quality improvement process to enhance health staff confidence and competence in health information system tasks in the ejisu juaben municipal health directorate, Ghana.
3. Boateng, D., Galbete, C., Nicolaou, M., Meeks, K., Beune, E., Smeeth, L., Agyei-Baffour, P. & Spranger, J. (2019). Dietary patterns are associated with predicted 10-year risk of cardiovascular disease among Ghanaian populations: the Research on Obesity and Diabetes in African Migrants (RODAM) Study. *The Journal of nutrition*, 149(5), 755-769
4. Nartey, A. K., Badu, E., Agyei-Baffour, P., Gyamfi, N., Opoku, M. P., O'Brien, A. P. & Mitchell, R. (2019). The predictors of treatment pathways to mental health services among consumers in Ghana. *Perspectives in psychiatric care*, 55(2), 300-310.
5. Nuamah, G. B., Agyei-Baffour, P., Mensah, K. A., Boateng, D., Quansah, D. Y., Dobin, D. & Addai-Donkor, K. (2019). Access and utilization of maternal healthcare in a rural district in the forest belt of Ghana. *BMC pregnancy and childbirth*, 19(1), 6.

6. Okyere Boadu, R., Adzakah, G. & Agyei-Baffour, P. (2019). The Role of Quality Improvement Process in Improving the Culture of Information among Health Staff in Ghana. *Advances in Public Health*, 2019.
7. Abnory, M., Mensah, KA., Owusu-Dabo, E. (2019). Implementation challenges of Quality Assurance Initiatives: a qualitative assessment in Public University Hospitals in Ghana. 8TH College of Health Sciences, KNUST & 12TH Convention of Biomedical Research Ghana, Joint Scientific Conference held in KNUST School of Business, July30-31, 2019
8. Doku, PN., Mensah, KA., Ananga, MK., Debrah, TP. (2019). A systematic Review of the Mental Health of Orphans and Vulnerable Children within the Context of HIV/AIDS in Africa. *International Journal of Psychiatry*. ISSN: 2475-5435
9. Agyei, S. K., Kumah, E., Agyei-Baffour, P. & Ankomah, S. E. (2020). Patient perception of service quality in Ghana: an empirical study in Christian Health Association of Ghana Hospitals. *British Journal of Healthcare Management*, 26(6), 1-9
10. Asare, M., Agyei-Baffour, P., Lanning, B. A., Barimah Owusu, A., Commeh, M. E., Boozer, K. & Paskett, E. D. (2020). Multi-Theory Model and Predictors of Likelihood of Accepting the Series of HPV Vaccination: A Cross-Sectional Study among Ghanaian Adolescents. *International Journal of Environmental Research and Public Health*, 17(2), 571.
11. Boateng, D., Danquah, I., Said-Mohamed, R., Smeeth, L., Nicolaou, M., Meeks, K, Agyei-Baffour, P. & Mockenhaupt, F. P. (2020). Early-life exposures and cardiovascular disease risk among Ghanaian migrant and home populations: the RODAM study. *Journal of developmental origins of health and disease*, 11(3), 250-263.
12. Boateng, M. A., Agyei-Baffour, P., Angel, S. & Enemark, U. (2020). Translation, Cultural Adaptation and Psychometric Properties of the Ghanaian language (Akan; Asante Twi) version of the Health Literacy Questionnaire.
13. Osei, F. A., Owusu, S. K., Nyanor, I., Bonney, J., Enimil, A., Laryea, D. O, Agyei-Baffour, P. & Owusu, A. (2020). Educating caregivers to recognise the clinical signs of pneumonia in children younger than 6 months. *South African Journal of Child Health*, 14(2), 71-76.
14. Boateng, M. A., Angel, S., Agyei-Baffour, P. & Enemark, U. (2020). Cultural Adaptation and Validation of the Ghanaian Language (Akan; Asante Twi) Version of the Health Literacy Questionnaire. DOI: [10.21203/rs.3.rs-39715/v1](https://doi.org/10.21203/rs.3.rs-39715/v1) PPR: PPR184237

DEPARTMENT OF COMMUNITY HEALTH

ACADEMIC STAFF

Professor

A. K. Edusei PhD (Legon), MSc (Kenya), MPH (UK), BSc (Kumasi)

Senior lecturer:

W. K. Mprah PhD (USA), MPhil, BA, Dip. (UCC, Cape Coast, Ghana),

E. Appiah-Brempong PhD (Kumasi), MSc (UK), BSc (Kumasi)

Lecturers:

P. Okyere MSc (UK), BA (Kumasi)

R. T. O. Adjei (Mrs.) MSc (Kumasi), Post Grd. Dip. (Denmark), B.Ed (Cape Coast)

E. Acheampong PhD, MSc, BA(Kumasi)

I. Owusu MA (Leeds), BA (Legon)

ARTICLES PUBLISHED IN REFREED JOURNALS

1. Opoku, M.P., Nketsia, W., Agyei-Okyere & Mprah, W.K. (2019). Extending social protection to persons with disabilities: Exploring the accessibility and the impact of the Disability Fund on the lives of persons with disabilities in Ghana. *Global Social Policy*, 19(3), 225-245.
2. Anokye, R., Acheampong, E., Budu-Ainooson, A., Obeng, E. I., Tetteh, E., Acheampong, Y. S., & Nettey-Marbell, C. E. (2019). Knowledge of HIV/AIDS among older adults (50 years and above) in a peri-urban setting: a descriptive cross-sectional study. *BMC geriatrics*, 19(1), 1-8.
3. Amoah V.M.K., Anokye R., Boakye D.S., Acheampong E., Budu-Ainooson A. (2019) A qualitative assessment of perceived barriers to effective therapeutic communication among nurses and patients. *BMC Nursing* 18 (1), 4
4. Appiah-Brempong, E., Newton, S., Harris, M. J., Gulis, G. (2019) Effect of a Theory-Based Hand Hygiene Educational Intervention for Enhancing

Behavioural Outcomes in Ghanaian Schools: A Cluster Randomised Control Trial. *International Journal of Public Health*. 65(1), 99-109

5. [Osarfo J.](#), [Odotei Adjei R.](#), [Magnussen P.](#), [Tagbor, H. K.](#) (2020) Participation of Ghanaian pregnant women in an antimalarial drug trial: willingness, experiences and perceptions *Transactions of The Royal Society of Tropical Medicine and Hygiene*, tra120, doi./10.1093/trstmh/traa120 Danso-Afriyie, M., Owusu, I., Anokye, R., Mprah Kwadwo, W. (2019) Job related challenges of teachers with physical disabilities in the Kumasi Metropolis in Ghana. *Review of Disability Studies*. 15(2):1-19.
6. Mji, G., & Edusei, A. (2019). An introduction to a special issue on the role of assistive technology in social inclusion of persons with disabilities in Africa: Outcome of the fifth African Network for Evidence-to-Action in Disability conference. *African Journal of Disability (Online)*, 8, 1-4.
7. Evans, A. Y., Anthony, E., & Gabriel, G. (2019). Comprehensive health literacy among undergraduates: A Ghanaian university-based cross-sectional study. *HLRP: Health Literacy Research and Practice*, 3(4), e227-e237.
8. Senayah, E. A., Mprah, W. K., Opoku, M. P., Edusei, A. K., & Torgbenu, E. L. (2019). The accessibility of health services to young deaf adolescents in Ghana. *The International journal of health planning and management*, 34(1), e634-e645.
9. Boateng, K. S., Agyei-Baffour, P., Boateng, D., Rockson, G. N. K., Mensah, K. A., & Edusei, A. K. (2019). Household willingness-to-pay for improved solid waste management services in four major metropolitan cities in Ghana. *Journal of environmental and public health*, 2019.
10. Acheampong, E., Yeboah, M., Anokye, R., Adusei, A. K., Naadutey, A., & Afful, B. F. (2019). Knowledge of basic school teachers on identification and support services for children with dyslexia. *Journal of Indian Association for Child & Adolescent Mental Health*, 15(2).
11. Boadu, R. O., Agyei-Baffour, P., & Edusei, A. K. (2019). Data accuracy and completeness of monthly midwifery returns indicators of Ejisu Juaben Health Directorate of Ghana. *International Journal of Public Health Science*, 8(1), 106-117.

DEPARTMENT OF EPIDEMIOLOGY AND BIostatISTICS

ACADEMIC STAFF

Senior Lecturers:

E. Nakua	PhD (Ghana), MSc, PG. Dip (UK), BSc
Y. Enuameh	DrPH (US), MSc (Ghana), MD (Ukraine)
A. Singh	PhD (Ghana), (UK), MBChB, (Ghana), Dip

Lecturers:

M. Aliyu	PhD (Ghana), MPH (Ghana), BSc (Ghana)
----------	---------------------------------------

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Singh A., Owusu-Dabo E., Mdege N., McNeill A., Britton J., Bauld L. A situational analysis of tobacco control in Ghana: progress, opportunities and challenges. *J Glob Health Rep.* 2020;4: e2020015. doi:10.29392/001c.12260
2. Singh, A., Okello, G., Semple, S., Dobbie, F., Kinnunen, T. I., Lartey, K. F., ... & Owusu-Dabo, E. (2020). Exposure to secondhand smoke in hospitality settings in Ghana: Evidence of changes since implementation of smoke-free legislation. *Tobacco Induced Diseases*, 18.
3. Singh, A., Dobbie, F., Ralston, R., Davidson, F., Bauld, L., & Owusu-Dabo, E. Tobacco use and COVID-19 in Ghana: generating evidence to support policy and practice.
4. Akinyemi, R. O., Jenkins, C., Nichols, M., Singh, A., Wahab, K., Akpalu, A., ... & Arulogun, O. (2020). Unraveling the Ethical, Legal, and Social Implications of Neurobiobanking and Stroke Genomic Research in Africa: A Study Protocol of the African Neurobiobank for Precision Stroke Medicine ELSI Project. *International Journal of Qualitative Methods*, 19, 1609406920923194
5. Singh A & Nichols M. A Nurse-led Education and Engagement Study for Diabetes Care in Sub-Saharan Africa (NEEDS) (2020): Protocol for a Mixed Methodological Global Health Study (2020). *JMIR Research Protocols JMIR Res Protoc*; 9(6): e15408 DOI: [10.2196/15408](https://doi.org/10.2196/15408)
6. Sarfo, F. S., Singh, A., Tagge, R., Mensah, G., & Ovbiagele, B. (2020). Duration of antiretroviral therapy among people living with HIV and incidence of hypertension in Ghana. *The Journal of Clinical Hypertension*, 22(12), 2361-2371.

7. Nichols, M., Singh, A., Sarfo, F. S., Treiber, F., Tagge, R., Jenkins, C., & Ovbiagele, B. (2019). Post-intervention qualitative assessment of mobile health technology to manage hypertension among Ghanaian stroke survivors. *Journal of the neurological sciences*, 406, 116462.
8. [Owusu-Dabo E. & Singh A \(2019\). Ghana Country Profile. Tobacco Tactics. Available at https://tobaccotactics.org/wiki/ghana-country-profile-d/](https://tobaccotactics.org/wiki/ghana-country-profile-d/)
9. Awua-Boateng, N.Y., Mohammed, A., Aglanu, L.M., Acheampong, G., Amuasi, J.H., Bonsu, F.A., Phillips, R.O., Owusu-Dabo, E., 2019. Is pulmonary tuberculosis in pregnant women a problem in Ghana? Observations and lessons from the national tuberculosis prevalence project.
10. Ayisi-Boateng, N.K., Enimil, A., Mohammed, A., Essuman, A., Lawson, H., Anining, D.O., Agyemang-Yeboah, D., Spangenberg, K., 2020. Predictors of family functionality amongst human immunodeficiency virus-serodiscordant couples in two major hospitals in Kumasi, Ghana. *Afr. J. Prim. Health Care Fam. Med.* 12, 1–6.
11. Ayisi-Boateng, N.K., Mohammed, A., Opoku, D.A., Sarfo, F.S., 2020. Frequency & factors associated with apparent resistant hypertension among Ghanaians in a multicenter study. *J. Clin. Hypertens.* 22, 1594–1602. <https://doi.org/10.1111/jch.13974>
12. Mohammed, A., Acheampong, P.R., Otupiri, E., Osei, F.A., Larson-Reindorf, R., Owusu-Dabo, E., 2019. Mobile phone short message service (SMS) as a malaria control tool: a quasi-experimental study. *BMC Public Health* 19, 1–11.
13. Mohammed, A., Acheampong, P.R., Otupiri, E., Owusu-Dabo, E., 2020. Symptom monitoring of childhood illnesses and referrals: A pilot study on the feasibility of a mobile phone-based system as a disease surveillance tool in a rural health district of Ghana. *Health Informatics J.* 26, 1465–1476
14. Bourey, C., Williams, W., Bernstein, E. E., & Stephenson, R. (2015). Systematic review of structural interventions for intimate partner violence in low-and middle-income countries: organizing evidence for prevention. *BMC public health*, 15(1), 1-18.
15. Chirwa, T. F., Zingoni, Z. M., Munyewende, P., Manda, S. O., Mwambi, H., Kandala, N. B., ... & Todd, J. (2020). Developing excellence in biostatistics leadership, training and science in Africa: How the Sub-Saharan Africa Consortium for Advanced Biostatistics (SSACAB) training unites expertise to deliver excellence. *AAS Open Research*, 3

16. Nakua, E. K., Owusu-Dabo, E., Newton, S., Koranteng, A., Otupiri, E., Donkor, P., & Mock, C. (2019). Injury rate and risk factors among small-scale gold miners in Ghana. *BMC public health*, 19(1), 1-8.
17. Polis, C.B., Castillo, P.W., Otupiri, E., Keogh, S.C., Hussain, R., Nakua, E.K., Larsen-Reindorf, R., Bell, S.O. (2020). Estimating the incidence of abortion: using the Abortion Incidence complications Methodology in Ghana, 2017. *BMJ Global Health*. 5: e002130. doi:10.1136/bmjgh-2019-002130
18. Keogh, S.C., Otupiri, E., Chiu, D.W., Polis, C.B., Hussain, R., Bell, S.O., Nakua, E.K., Larsen-Reindorf R. (2020). Estimating the incidence of abortion: a comparison of five approaches in Ghana. *BMJ Global Health*. 5: e002129. doi:10.1136/bmjgh-2019-002129
19. Nakua, E.K., Owusu-Dabo, E., Newton, S., Koranteng, A., Otupiri, E., Donkor, P., Mock, C., (2019). Injury rate and risk factors among small-scale gold miners in Ghana. *BMC Public Health* 19:1368. <https://doi.org/10.1186/s12889-019-7560-0>
20. Dzomeku, V. M., Mensah, A. B. B., Nakua, E. K., Agbadi, P., Lori, J. R., & Donkor, P. (2020). I wouldn't have hit you, but you would have killed your baby: exploring midwives' Dzomeku perspectives on disrespect and abusive Care in Ghana. *BMC pregnancy and childbirth*, 20(1), 1-12.
21. Dzomeku, V. M., Mensah, B. A. B., Nakua, E. K., Agbadi, P., Lori, J. R., & Donkor, P. (2020). Exploring midwives' understanding of respectful maternal care in Kumasi, Ghana: Qualitative inquiry. *PloS one*, 15(7), e0220538.
22. Dzomeku, V. M., Mensah, B. A. B., Nakua, E. K., Agbadi, P., Lori, J. R., & Donkor, P. (2020b). Correction: Exploring midwives' understanding of respectful maternal care in Kumasi, Ghana: Qualitative inquiry. *PLoS one*, 15(8), 1-18. <https://doi.org/10.1371/journal.pone.0220538>.
23. Agyemang, A.F., Tei-Muno, A.N., Dzomeku, V.M., Bentil, A.B., Agbadi, P. The prevalence and predictive factors of breast cancer screening among older Ghanaian women. *Heliyon*, 2020, 6(4), e03838
24. Tagoe, E.T., Agbadi, P., Nakua, E.K., Nutor J.J., Aheto, J.M.K. A predictive model and socioeconomic and demographic determinants of under-five mortality in Sierra Leone. *Heliyon*, 2020, 6(3), e03508
25. Amissah, J., Nakua, E.K., Badu, E., Amissah, A.B., Lariba, L. In search of universal health coverage: The hidden cost of family planning to women in Ghana. *BMC Research Notes*, 2020, 13(1), 58.

26. Amissah, J., Badu, E., Agyei-Baffour, P., Nakua, E.K., Mensah, I. Predisposing factors influencing occupational injury frontline building construction workers in Ghana. *BMC Research Notes*, 2019, 12(1), 728
27. Baschieri, A., Gordeev, V. S., Akuze, J., Kwesiga, D., Blencowe, H., Cousens, S., ... & Lawn, J. E. (2019). "Every Newborn-INDEPTH"(EN-INDEPTH) study protocol for a randomised comparison of household survey modules for measuring stillbirths and neonatal deaths in five Health and Demographic Surveillance sites. *Journal of global health*, 9(1).
28. Dosoo, D.K., Nyame S, Enuameh, Y., Ayetey, H., Danwonno, H., Twumasi M, Tabiri C, Gyaase S, Lip GY, Owusu-Agyei S, Asante KP. Prevalence of Hypertension in the Middle Belt of Ghana: A Community-Based Screening Study. *International Journal of Hypertension*. 2019; 2019.
29. Adjei, K. K., Kikuchi, K., Owusu-Agyei, S., Enuameh, Y., Shibanuma, A., Ansah, E. K., ... & Jimba, M. (2019). Women's overall satisfaction with health facility delivery services in Ghana: a mixed-methods study. *Tropical medicine and health*, 47(1), 1-9.

CONFERENCE ABSTRACTS/PRESENTATIONS

1. Chelsea Polis, Phillicia Castillo, Easmon Otupiri, Sarah Keogh, Rubina Hussain, Emmanuel Nakua, Roderick Larsen-Reindorf, Suzanne Bell. Estimating abortion incidence in Ghana for 2017 using the Abortion Incidence Complications Methodology. Presented at the Society of Family Planning Annual Meeting, Los Angeles, CA, October 19 – 21, 2019
2. Sarah Keogh, Chelsea B. Polis, Easmon Otupiri, Phillicia Castillo, Rubina Hussain, Doris Chiu, Emmanuel Nakua, Roderick Larsen-Reindorf, Suzanne Bell. Comparing four approaches to estimating abortion incidence in Ghana. Presented at the Population Association of America Annual General Meeting, Austin, TX, April 10 – 13, 2019

TECHNOLOGY DEVELOPMENT

1. Risk assessment Application for KNUST (2020) – COVID-19 TECHBOT. <https://apps.knust.edu.gh/covid19/#/> (Ellis Owusu-Dabo, Arti Singh & Kenneth Asante Owusu)

DEPARTMENT OF GLOBAL AND INTERNATIONAL HEALTH

ACADEMIC STAFF

Professor:

E. Owusu-Dabo PhD (UK), FGCP (Accra), FWACP (Nigeria), MSc, MBChB, BSc (Kumasi)

Associate Professor:

S. Newton PhD, MSc (UK), MBChB (Kumasi)

Senior Lecturer:

J. H. Amuasi PhD, MS, MPH (US), MBChB, BSc. (Kumasi), Dip (Accra/France)

Lecturers:

E. Dassah PhD, MA (Canada), (BA) Ghana

J. K. Brenyah PhD, MPH, BSc (Ghana)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Appiah-Brempong, E., Newton, S., Harris, M. J., & Gulis, G. (2020). Effect of a theory-based hand hygiene educational intervention for enhancing behavioural outcomes in Ghanaian schools: a cluster-randomised controlled trial. *International journal of public health*, 65(1), 99-109
2. Nakua, E. K., Owusu-Dabo, E., Newton, S., Koranteng, A., Otupiri, E., Donkor, P., & Mock, C. (2019). Injury rate and risk factors among small-scale gold miners in Ghana. *BMC public health*, 19(1), 1-8.
3. Bahl, R., & WHO Immediate KMC Study Group. (2020). Impact of continuous Kangaroo Mother Care initiated immediately after birth (iKMC) on survival of newborns with birth weight between 1.0 to < 1.8 kg: study protocol for a randomized controlled trial.
4. Singh, A., Owusu-Dabo, E., Mdege, N., McNeill, A., Britton, J., & Bauld, L. (2020). A situational analysis of tobacco control in Ghana: progress, opportunities and challenges. *Journal of global health reports*, 4.
5. Herr, W., Krumkamp, R., Hogan, B., Dekker, D., Gyau, K., Owusu-Dabo, E., ... & Kreuels, B. (2020). A cross-sectional study on risk factors for infection

with Parvovirus B19 and the association with anaemia in a febrile paediatric population in Ghana. *Scientific reports*, 10(1), 1-9.

6. Krumkamp, R., Oppong, K., Hogan, B., Strauss, R., Frickmann, H., Wiafe-Aktenen, C., ... & Dekker, D. (2020). Spectrum of antibiotic resistant bacteria and fungi isolated from chronically infected wounds in a rural district hospital in Ghana. *PloS one*, 15(8), e0237263.
7. Kaminski, L.C., Riehn, M., Abel, A., Steeg, C., Yar, D.D., Addai-Mensah, O., Aminkiah, F., Owusu Dabo, E., Jacobs, T. and Mackroth, M.S., 2019. Cytotoxic T cell-derived granzyme B is increased in severe plasmodium falciparum malaria. *Frontiers in immunology*, 10, ;2917.
8. Mogeni, O.D., Cruz Espinoza, L.M., Im, J., Panzner, U., Toy, T., Pak, G.D., Haselbeck, A., Ramani, E., Schütt-Gerowitt, H., Jacobs, J. and Metila, O.L., 2019. The Monitoring and Evaluation of a Multicountry Surveillance Study, the Severe Typhoid Fever in Africa Program. *Clinical Infectious Diseases*, 69(Supplement_6), S510-S518.
9. Park, S.E., Toy, T., Cruz Espinoza, L.M., Panzner, U., Mogeni, O.D., Im, J., Poudyal, N., Pak, G.D., Seo, H., Chon, Y. and Schütt-Gerowitt, H., 2019. The Severe Typhoid Fever in Africa Program: study design and methodology to assess disease severity, host immunity, and carriage associated with invasive salmonellosis. *Clinical Infectious Diseases*, 69(Supplement_6), S422-S434.
10. Owusu, M., Acheampong, G., Annan, A., Marfo, K.S., Osei, I., Amuasi, J., Sarpong, N., Im, J., Mogeni, O.D., Chiang, H.Y. and Kuo, C.H., 2019. *Ralstonia mannitolilytica* sepsis: a case report. *Journal of medical case reports*, 13(1), pp.1-4.
11. Chilunga, F.P., Henneman, P., Meeks, K.A., Beune, E., Requena-Méndez, A., Smeeth, L., Addo, J., Bahendeka, S., Danquah, I., Schulze, M.B. and Spranger, J., 2019. Prevalence and determinants of type 2 diabetes among lean African migrants and non-migrants: the RODAM study. *Journal of global health*, 9(2).
12. Acheampong, G., Owusu, M., Owusu-Ofori, A., Osei, I., Sarpong, N., Sylverken, A., Kung, H.J., Cho, S.T., Kuo, C.H., Park, S.E. and Marks, F., 2019. Chromosomal and plasmid-mediated fluoroquinolone resistance in human *Salmonella enterica* infection in Ghana. *BMC infectious diseases*, 19(1), 1-10.
13. Nakua, E. K., Owusu-Dabo, E., Newton, S., Koranteng, A., Otupiri, E., Donkor, P., & Mock, C. (2019). Injury rate and risk factors among small-scale gold miners in Ghana. *BMC public health*, 19(1), 1-8.

14. Gyan, T., Strobel, N.A., McAuley, K., Shannon, C., Newton, S., Tawiah-Agyemang, C., Amenga-Etego, S., Owusu-Agyei, S., Forbes, D. and Edmond, K., 2019. Health service provider education and/or training in infant male circumcision to improve short-and long-term morbidity outcomes: A systematic review. *Journal of paediatrics and child health*, 55(8), 895-906.
15. Bahl, R., & WHO Immediate KMC Study Group. (2020). Impact of continuous Kangaroo Mother Care initiated immediately after birth (iKMC) on survival of newborns with birth weight between 1.0 to < 1.8 kg: study protocol for a randomized controlled trial.
16. Baschieri, A., Gordeev, V.S., Akuze, J., Kwesiga, D., Blencowe, H., Cousens, S., Waiswa, P., Fisker, A.B., Thysen, S.M., Rodrigues, A. and Bikis, G.A., 2019. "Every Newborn-INDEPTH" (EN-INDEPTH) study protocol for a randomised comparison of household survey modules for measuring stillbirths and neonatal deaths in five Health and Demographic Surveillance sites. *Journal of global health*, 9(1).
17. Sherley, J., & Newton, S. (2020). The association between area of residence and sufficient antenatal tetanus vaccination in women ages 15–49 in Afghanistan: an analysis of the 2015 DHS dataset. *Global health research and policy*, 5(1), 1-13.
18. Dassah, E., Aldersey, H. M., McColl, M. A., & Davison, C. (2019). Healthcare providers' perspectives of providing primary healthcare services to persons with physical disabilities in rural Ghana. *Primary Health Care Research & Development*, 20.
19. Tichkule, S., Jex, A.R., Van Oosterhout, C., Sannella, A.R., Krumkamp, R., Aldrich, C., Maiga-Ascofare, O., Dekker, D., Lamshöft, M., Mbwana, J. and Rakotozandrindrainy, N., 2021. Comparative genomics revealed adaptive admixture in *Cryptosporidium hominis* in Africa. *Microbial genomics*, 7(1), p000493.
20. Amuasi, J. H., & Winkler, A. S. (2020). One Health or Planetary Health for pandemic prevention? –Authors' reply. *The Lancet*, 396(10266), 1882-1883.
21. Owusu, M., Sylverken, A.A., Ankrah, S.T., El-Duah, P., Ayisi-Boateng, N.K., Yeboah, R., Gorman, R., Asamoah, J., Binger, T., Acheampong, G. and Bekoe, F.A. (2020). Epidemiological profile of SARS-CoV-2 among selected regions in Ghana: A cross-sectional retrospective study. *PLoS one*, 15(12), p.e0243711.
22. Gruetzmacher, K., Karesh, W.B., Amuasi, J.H., Arshad, A., Farlow, A., Gabrysch, S., Jetzkowitz, J., Lieberman, S., Palmer, C., Winkler, A.S. and Walzer, C. (2021). The Berlin principles on one health—Bridging global health and conservation. *Science of the Total Environment*, 764:142919.

23. Tazerji, S.S., Duarte, P.M., Rahimi, P., Shahabinejad, F., Dhakal, S., Malik, Y.S., Shehata, A.A., Lama, J., Klein, J., Safdar, M. and Rahman, M.T. (2020). Transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) to animals: an updated review. *Journal of translational medicine*, 18(1), 1-11.
24. Manouana, G.P., Lorenz, E., Ngwese, M.M., Moure, P.A.N., Ascofaré, O.M., Akenten, C.W., Amuasi, J., Rakotozandrindriny, N., Rakotozandrindriny, R., Mbwana, J. and Lusingu, J. (2020). Performance of a rapid diagnostic test for the detection of *Cryptosporidium* spp. in African children admitted to hospital with diarrhea. *PLoS neglected tropical diseases*, 14(7), e0008448.
25. Akhvlediani, T., Ali, S.M., Angus, D.C., Arabi, Y.M., Ashraf, S., Baillie, J.K., Bakamutumaho, B., Beane, A., Bozza, F., Brett, S.J. and Bruzzone, R. (2020). Global outbreak research: harmony not hegemony. *The Lancet Infectious Diseases*, 20(7), 770-772.
26. Amuasi, J. H., Lucas, T., Horton, R., & Winkler, A. S. (2020). Reconnecting for our future: the lancet One Health commission. *The Lancet*, 395(10235), 1469-1471.
27. Amuasi, J. H., Lucas, T., Horton, R., & Winkler, A. S. (2020). Reconnecting for our future: the lancet One Health commission. *The Lancet*, 395(10235), 1469-1471.
28. Krumkamp, R., Aldrich, C., Maiga-Ascofare, O., Mbwana, J., Rakotozandrindriny, N., Borrmann, S., Caccio, S.M., Rakotozandrindriny, R., Adegnika, A.A., Lusingu, J. and Amuasi, J., (2020). Transmission of *Cryptosporidium* spp. among human and animal local contact networks in sub-Saharan Africa: a multi-country study. *Clinical Infectious Diseases*.
29. Owusu, M., Acheampong, G., Annan, A., Marfo, K.S., Osei, I., Amuasi, J., Sarpong, N., Im, J., Mogeni, O.D., Chiang, H.Y. and Kuo, C.H. (2019). *Ralstonia mannitolilytica* sepsis: a case report. *Journal of medical case reports*, 13(1), 1-4.
30. Amuasi, J. H., & May, J. (2019). Non-typhoidal salmonella: Invasive, lethal, and on the loose. *The Lancet Infectious Diseases*, 19(12), 1267-1269.

CHAPTERS IN BOOKS

1. Kuuire, V., & Dassah, E. (2020). Place and Health. In A. Kobayashi (Ed.), *International Encyclopedia of Human Geography (Second Edition)*, (pp.125-128). Elsevier

7. Nakua, E. K., Owusu-Dabo, E., Newton, S., Koranteng, A., Otupiri, E., Donkor, P., & Mock, C. (2019). Injury rate and risk factors among small-scale gold miners in Ghana. *BMC public health*, 19(1), 1-8.
8. Mohammed, A., Acheampong, P. R., Otupiri, E., & Owusu-Dabo, E. (2020). Symptom monitoring of childhood illnesses and referrals: A pilot study on the feasibility of a mobile phone-based system as a disease surveillance tool in a rural health district of Ghana. *Health informatics journal*, 26(2), 1465-1476
9. Zimmerman, L. A., Bell, S. O., Li, Q., Morzenti, A., Anglewicz, P., PMA2020 Principal Investigators Group, & Tsui, A. O. (2019). Individual, community and service environment factors associated with modern contraceptive use in five Sub-Saharan African countries: A multilevel, multinomial analysis using geographically linked data from PMA2020. *PloS one*, 14(6), e0218157.
10. Nakua, E.K., Amissah, J., Apiribu, F., Otupiri, E., Budu-Ainooson, A., Agyeman-Weittey, F., Adoteye, G. and Ansong, D. (2019). Sports injuries in second-cycle institutions: the burden on, and risk factors associated with student health. *Postgraduate Medical Journal of Ghana*.
11. Mohammed, A., Acheampong, P. R., Otupiri, E., Osei, F. A., Larson-Reindorf, R., & Owusu-Dabo, E. (2019). Mobile phone short message service (SMS) as a malaria control tool: a quasi-experimental study. *BMC public health*, 19(1), 1-11.
12. Larsen-Reindorf, R., Otupiri, E., Anomah, J.E., Edwards, B.M., Frimpong, B., Waller, B., Prince, M.E. and Basura, G.J. (2019). Paediatric hearing loss: a community-based survey in peri-urban Kumasi, Ghana. *The Journal of laryngology and otology*, 133(9), 796-804.
13. Schwarz, D., Kim, J.H., Ratcliffe, H., Bell, G., Awoonor-Williams, J.K., Nimako, B., Otupiri, E., Lipsitz, S., Hirschhorn, L. and Bitton, A. (2019). The status of Ghanaian community health workers' supervision and service delivery: descriptive analyses from the 2017 Performance Monitoring and Accountability 2020 survey. *Gates open research*, 3.
14. Naziru, M. T., Gbagbo, F. Y., Agbeno, E. K., & Otupiri, E. (2019). Review of Socio-Demographic and Economic Predictors of Adolescent Pregnancies in Rural Ghana.
15. Macarayan, E. K., Ratcliffe, H. L., Otupiri, E., Hirschhorn, L. R., Miller, K., Lipsitz, S. R., ... & Bitton, A. (2019). Facility management associated with improved primary health care outcomes in Ghana. *PloS one*, 14(7), e0218662.
16. Apambila, R. N., Owusu-Asubonteng, G., & Dassah, E. T. (2020). Contraceptive use among young women in northern Ghana: a community-based study.

The European Journal of Contraception & Reproductive Health Care, 25(5), 339-344.

17. Adu-Bonsaffoh, K., Opong, S. A., Dassah, E. T., & Seffah, J. D. (2020). Challenges in preterm birth research: Ghanaian perspective. *Placenta*.
18. Azanu, W. K., Dassah, E. T., Agbeno, E. K., Ofori, A. A., & Opare-Addo, H. S. (2020). Knowledge of obstetric fistula among prenatal clinic attendees and midwives in Mfantiman municipality, Ghana. *International Journal of Gynecology & Obstetrics*, 148, 16-21.
19. Wiafe, Y. A., Whitehead, B., Venables, H., & Dassah, E. T. (2019). Comparing intrapartum ultrasound and clinical examination in the assessment of fetal head position in African women. *Journal of ultrasonography*, 19(79), 249
20. Dassah, E. T., Kusi-Mensah, E., Morhe, E. S., & Odoi, A. T. (2019). Maternal and perinatal outcomes among women with hypertensive disorders in pregnancy in Kumasi, Ghana. *PloS one*, 14(10), e0223478.

CONFERENCE ABSTRACTS/PRESENTATIONS

1. Chelsea Polis, Phillicia Castillo, Easmon Otupiri, Sarah Keogh, Rubina Hussain, Emmanuel Nakua, Roderick Larsen-Reindorf, Suzanne Bell. Estimating abortion incidence in Ghana for 2017 using the Abortion Incidence Complications Methodology. Presented at the Society of Family Planning Annual Meeting, Los Angeles, CA, October 19 – 21, 2019
2. Sarah Keogh, Chelsea B. Polis, Easmon Otupiri, Phillicia Castillo, Rubina Hussain, Doris Chiu, Emmanuel Nakua, Roderick Larsen-Reindorf, Suzanne Bell. Comparing four approaches to estimating abortion incidence in Ghana. Presented at the Population Association of America Annual General Meeting, Austin, TX, April 10 – 13, 2019
3. Appiah-Brempong E, Newton S, Harris MJ, Gulis G. (2019). Effect of a theory-based hand hygiene educational intervention for enhancing behavioural outcomes in Ghanaian schools: a cluster-randomised controlled trial. *Int J Public Health*. Nov 7. DOI: 10.1007/s00038-019-01310-4.

SCHOOL OF VETERINARY MEDICINE

DEPARTMENT OF PUBLIC HEALTH & EPIDEMIOLOGY

ACADEMIC STAFF

Senior Lecturers:

J. Atawalna	MPH (Kumasi), DVM, MVSC (Ukraine)
V. Burimuah	MPhil (Legon), PGDip (Japan), DVM (Cuba)

Lecturer:

W. Tasiame	MPhil (Legon), DVM (Cuba)
------------	---------------------------

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Johnson, S., Bugyei, K., Nortey, P and Tasiame, W. (2019). Antimicrobial drug usage and poultry production: case study in Ghana. *Animal Production Science*. 59(1), 177-82.
2. Tasiame, W., Johnson, S., Burimuah, V., Akyereko, E and Amemor, E. (2019). Dog population structure in Kumasi, Ghana: a missing link towards rabies control. *The Pan African Medical Journal*. 33.
3. Johnson, S.A., Kaneene, J.B., Asare-Dompreh, K., Tasiame, W., Mensah, I.G. et al. (2019) Seroprevalence of Q fever in cattle, sheep and goats in the Volta region of Ghana. *Veterinary medicine and science*. 5(3), 402-11
4. Sarpong, O., Atawalna, J., Sia, D.D., Cobbinah, E.D., and Acheampong, E. (2019). Abscessations and Their Associated Microorganisms in Slaughtered Cattle at the Kumasi Metropolitan Abattoir, Ghana. *East African Scholars J Agri Life Sci Volume-2 | Issue-3pp* 130-133
5. Suu-Ire, R.D., Darkwah, B.K., Aryee, M., Fenteng, D., Atawalna, J. et al. (2020). Socio-demography and rabies situation in the Cape Coast and Ledzokuku-Krowor Municipalities of Ghana. *PAMJ-One Health*. 1, 6.
6. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R. et al. (2020). Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *Biomedical Centre (BMC), Veterinary Research*, 16,405
7. Tasiame, W., Johnson, S., Burimuah, V., Akyereko, E., El-Duah, P. et al. (2020). Outbreak of highly pathogenic avian influenza in Ghana, 2015: degree of losses and outcomes of time-course outbreak management. *Epidemiology and infection* 148, e45, 1-8

- Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *BMC Veterinary Research*, 16(1), 1-7.
4. Opoku-Agyemang, T., Cobbinah, E.D., Sia, D.D., Springs, M.S., Folitse, R.D. and Emikpe, B.O. (2020). The Morphometrics and Typology of the Skull in the Ghanaian Local Dog of Non-Descript Breed (*Canis lupus familiaris*). *International Journal of Morphology*, 38(3).
 5. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., Frimpong, Y.O., Agbenyega, O., Folitse, R., Tasiame, W. and Emikpe, B. (2020). Sero-prevalence, cross-species infection and serological determinants of prevalence of Bovine Coronavirus in Cattle, Sheep and Goats in Ghana. *Veterinary microbiology*, 241, .108544.
 6. Opoku-Agyemang T., Sia Dakolgo D., Mukumdane Spring S., Kankam D., Folitse, R.D., Emikpe B. (2020). Gross morphometric characteristics of respiratory organs in the Sahelian goats for assessment of lower respiratory disorders. *Animal Research International*, 17, (1).
 7. Emikpe B.O., Konadu A., Folitse R.D., Burimuah V., Shaibu E. (2020). Causes of kidney condemnation and associated direct financial loss at Kumasi Abattoir, Ghana between 2002-2014. *Animal Research International*, 17, (1).
 8. Folitse R.D., Opoku-Agyemang T., Amemor E., Opoku Darko E., Bentum K.E., Emikpe B. (2019). Serological Evidence of *Coxiella burnetii* infection in slaughtered sheep and goats at Kumasi Abattoir, Ghana. *Journal of Immunoassay and Immunochemistry*, 41, (8), 1-6.
 9. Okusanya, P.O., Jubril, A.J., Ajayi, O.L., Emikpe, B.O., and Taiwo, V.O. (2019). Histochemical and immunohistochemical detection of pathogenic leptospire serovars in tissues of some captive wildlife from a University zoo in Nigeria. *Journal of Immunoassay and Immunochemistry*, 40(5), 564-572.
 10. Aghogho, J. T., Olawumi, O. O., Olayinka, A. O., Unuoah, P. W., Rachel, G., and Emikpe, B. O. (2019). Morphometric evaluation of gross pulmonary indices in the Red Sokoto goats for pulmonary consolidation assessment. *Comparative Clinical Pathology*, 28(4), 1171-1175.
 11. Adetunji Adeniran, G., Ohore, O. G., Jarikre, T. A., Olawumi Ola, O., Oyebanji, V., & Emikpe, B. O. (2019). Humoral and mucosal immune responses in challenged chickens vaccinated with Infectious bursal disease vaccine using gums from *Cedrela odorata* and *Khaya senegalensis* as delivery agents. *Journal of Immunoassay and Immunochemistry*, 40(6), 630-641.

12. Bamidele, O. D., Adegbolagun, O. M., Subair, H. G., & Emikpe, B. O. (2019). In-vivo Anti-plasmodial Activity of Mama Decoction® with or without Paracetamol in Mice. *African Journal of Biomedical Research*, 22(3), 339-345.
13. Alaka, O. O., Emikpe, B. O., Jarikre, T. A., & Ola, O. O. (2019). Pathology and bronchoalveolar lavage fluid cellular and oxidative stress changes in canine pneumonia in Nigeria. *Comparative Clinical Pathology*, 28(6), 1681-1687.
14. Donkor, S., Larbie, C., Komlaga, G., & Emikpe, B. O. (2019). Phytochemical, antimicrobial, and antioxidant profiles of *Duranta erecta* L. parts. *Biochemistry research international*, 2019.
15. Adeshina, I., Emikpe, B. O., Jenyo-Oni, A., Ajani, E. K., & Abubakar, M. I. (2019). Growth performance, gut morphometry and innate immune profiles of common carp, *Cyprinus carpio* juveniles fed diet fortified with *Mitracarpus scaber* leaves extract and its susceptibility to pathogenic bacteria, *Aeromonas hydrophila*. *Acta Biologica*, 26, 5-17.
16. Salami, A. T., & Emikpe, B. O. (2019). Effect of Methanol Extract and Fractions of *Chrysophyllum albidum* Bark on Gut Morphology in bled and Plasmodium-Infected Mice. *Archives of Basic and Applied Medicine*, 7(2), 85-94
17. Opoku-Agyemang, T., Oppong, C., Sakyi, S. A., Amemor, E., Sia, D. D., & Emikpe, B. O. (2019). Baseline haematological parameters reference ranges of dogs in the Ashanti region of Ghana. *Animal Research International*, 16(3), 3529-3535.
18. Amosun, E. A., & Emikpe, B. O. (2019). Pathogenicity of *Mycoplasma bovis* isolates from some states in Nigeria inoculated intramammarily into lactating New Zealand white rabbits. *Sokoto Journal of Veterinary Sciences*, 17(4), 80-83.
19. Adeshina, I., Emikpe, B. O., Jenyo-Oni, A., Ajani, E. K., & Abubakar, M. I. (2020). Haematology, plasma biochemistry and serum of table size African catfish, *Clarias gariepinus*, naturally infected with *Listeria* species in Oyo State. *Comparative Clinical Pathology*, 29(1), 69-73.
20. Polycarp, N. T., Yusoff, S. M., Emikpe, B. O., Siti-Khairani, B., & Shahrom, S. (2020). Resveratrol ameliorates pathophysiological changes associated with *Brucella melitensis* infection in dexamethasone-treated does. *Comparative Clinical Pathology*, 29(1), 255-266.
21. Ezeasor, C. K., Emikpe, B. O., Odeniyi, M. O., & Shoyinka, S. V. (2020). Evaluation of the mucoadhesive strengths of *Abelmoschus esculentus* and *Irvingia gabonensis* gums for possible application in veterinary vaccine

- delivery: the effect of extraction methods. *Journal of Immunoassay and Immunochemistry*, 41(1), 60-70.
22. Folitse, R. D., Opoku-Agyemang, T., Amemor, E., Opoku, E. D., Bentum, K. E., & Emikpe, B. O. (2020). Serological evidence of *Coxiella burnetii* infection in slaughtered sheep and goats at Kumasi Abattoir, Ghana. *Journal of Immunoassay and Immunochemistry*, 41(2), 152-157.
 23. Adeniran, G. A., Jarikre, T. A., Ola, O. O., Ohore, O. G., Oyebanji, V. O., & Emikpe, B. O. (2020). Clinicopathological Assessment of Infectious Bursal Disease Vaccine Using Phytogetic Mucoadhesive Agents in Challenged Broilers. *Acta Veterinaria Eurasia*, 46(2), 75-81.
 24. Tasiame, W., Johnson, S., Burimuah, V., Akyereko, E., & Amemor, E. (2019). Dog population structure in Kumasi, Ghana: a missing link towards rabies control. *The Pan African medical journal*, 33, 13.
 25. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., Drosten, C. (2020). Sero-prevalence, cross-species infection and serological determinants of prevalence of Bovine Coronavirus in Cattle, Sheep and Goats in Ghana. *Veterinary microbiology*, 241, 108544.
 26. Tasiame, W., Johnson, S., Burimuah, V., Akyereko, E., El-Duah, P., Amemor, E., ... & Owiredu, E. W. (2020). Outbreak of highly pathogenic avian influenza in Ghana, 2015: degree of losses and outcomes of time-course outbreak management. *Epidemiology & Infection*, 148.
 27. Olusola S.E, Ajiwoju I.J, Emikpe BO (2020). Efficacy of Tamarind *Tamarindus indica* leaves and Mango leaves *Mangifera indica* leaves as feed additives on growth, blood status and resistance to *Aeromonas hydrophila* in juveniles African catfish *Clarias gariepinus* *Croatian Journal of Fisheries*, 78, 11-20.
 28. Emikpe B.O, Konadu A, Folitse RD, Burimuah V, Shaibu E (2020). Causes of kidney condemnation and associated direct financial loss at Kumasi abattoir, Ghana between 2002-2014 *Animal Research International*, 17 (1), 3559-3564
 29. Opoku-Agyemang T., Essel Cobbinah D., Sia D.D., Mukundane Springs S., Folitse R.D., and Emikpe B.O (2020). The morphometrics and typology of the skull in the Ghanaian local dog of Non-descript breed (*Canis lupus familiaris*). *International Journal of Morphology*, 38(3), 706-713.
 30. Opoku-Agyemang, T., Sia, D. D., Mukundane, S. S., Kankam, D., Folitse, R. D., & Emikpe, B. O. (2020). Gross morphometric characteristics of respiratory organs in the Sahelian goats for assessment of lower respiratory disorders. *Animal Research International*, 17(1), 3611-3619.

31. Owojuyigbe, O. S., Firempong, C. K., Larbie, C., Komlaga, G., & Emikpe, B. O. (2020). Hepatoprotective potential of *Hura crepitans* L.: A review of ethnomedical, phytochemical and pharmacological studies. *Journal of Complementary and Alternative Medical Research*, 1-10.
32. Opoku-Agyemang T., Amponsah M.P, Bonnah S.G. Mensah K.B., Jarikre TA and Emikpe B.O (2020). Field evaluation of some selected medicinal plant used in the treatment of piglet diarrhoea in Ghana *African Journal of Biomedical Research* 23(1), 107-110
33. Omadevuaye DO, Jarikre TA, Gurumyen GY, Anike WU, Adekola A & Emikpe B.O (2020) Fatal outbreak of Eimeriosis in a rabbitry in Ibadan, Nigeria: Case report *African Journal of Biomedical Research* 23(1), 127-129.
34. Adeshina, I., & Emikpe, B. O. (2020). Pathogenicity, haematology and pathology of *Listeria monocytogenes* in rat. *Comparative Clinical Pathology*, 29(2), 511-515
35. Ola, O. O., Adeniran, G. A., Opoku-Agyemang, T., Bediako, E., Ishola, O., Jarikre, T. A., & Emikpe, B. O. (2020). Pathology and immunohistochemical evaluation of lungs of cattle slaughtered at metropolitan abattoirs in Nigeria and Ghana. *Journal of Immunoassay and Immunochemistry*, 41(3), 297-310.
36. Mumin, F. I., Emikpe, B. O., & Odeniyi, M. A. (2020). Evaluation of mucoadhesive property and the effect of *Boswellia carteri* gum on intranasal vaccination against small ruminant morbillivirus infection (PPR). *Journal of Immunoassay and Immunochemistry*, 41(3), 311-321.
37. Owojuyigbe, O.S., Firempong, C.K., Komlaga, G., Larbie, C., & Emikpe, B. O. (2020). Phytochemical, Antioxidant and Safety Evaluation of *Hura crepitans* (L.) Stem Bark Hydroethanolic Extract in Animals. *European Journal of Medicinal Plants*, 1-16.
38. Donkor, S., Larbie, C., Komlaga, G., and Emikpe, B.O. (2020). Toxicity of the hydroethanolic extract of *Duranta erecta* L. in rat models. *Journal of Pharmaceutical Research International* 32 (6), 9-18
39. Larbie, C., Emikpe, B. O., Oyagbemi, A. A., Nyarko, R. A., Jarikre, T. A., Adjei, C. O., & Aseidu, E. B. (2020). *Acalypha wilkesiana* 'inferno' hydroethanolic leaf extract has protective effect on carbon tetrachloride-induced subacute toxicity in animals. *Economics-Law and Management*, 7.
40. Adeniran, G. A., Jarikre, T. A., Ola, O. O., Adigun, O., Odeniyi, M. A., & Emikpe, B. O. (2020). Clinical and pathological responses of broilers to ocular vaccination using plant gum delivery and challenge with infectious bursal disease virus. *Comparative Clinical Pathology*, 29, 721-72

41. Nwufoh, O. C., Sadiq, N. A., Adediran, O. A., Jarikre, T. A., & Emikpe, B. O. (2020). Sequential histopathological changes and cytokine expressions in dogs naturally infested with *Sarcoptes scabiei* mites. *Acta parasitologica*, 1-10.
42. Fagbohun, O.A, Alaka O.O, Jarikre, T.A, Adesina, R.D, Ola, O.O, Afolabi M, Oridupa O.A, Omobowale T.O, Emikpe, B.O. (2020). Pathology and Molecular Diagnosis of Canine Parvoviral Enteritis in Nigeria: Case Report *Comparative clinical Pathology* 29, 887-893
43. Adedokun, R.A.M., Fagbohun, O.A., Akinlabi, E.Y., Adebisi, T.K., Otuh, P.I., Jeremiah, O.T., Adesina, R.D., Okpe, B.C., Jarikre, T.A., Adeniran, G.A. and Adeyefa, C.A.O. (2020). Clinicopathological features, molecular diagnosis and treatment of epizootic lymphangitis in a donkey at a university zoological garden: a case report. *Comparative Clinical Pathology*, 29, 899-903.
44. El-Duah, P, Dei, D., Binger, T., Sylverken, A., Wollny, R., Tasiame, W., Oppong, S., Adu-Sarkodie, Y., Emikpe, B., Folitse, R. and Drexler, J.F. (2020). Detection and genomic characterization of hepatitis E virus genotype 3 from pigs in Ghana, Africa. *One Health Outlook*, 2(1), 1-9.
45. Fagbohun, A. F., Ola-Davies, O. E., Emikpe, B. O., Obagbemiro, O., & Adeyemo, O. K. (2020). Chronic Exposure to No-Effect Concentration of Diazinon Induced Histological Lesions in Organs of *Clarias gariepinus*. *Agricultural Sciences*, 11(7), 627-637.
46. Usende, I. L., Olopade, J. O., Emikpe, B. O., & Nafady, A. A. H. M. (2020). Biochemical and ultrastructural changes in kidney and liver of African Giant Rats (*Cricetomys gambianus*, Waterhouse, 1840) exposed to intraperitoneal sodium metavanadate (vanadium) intoxication. *Environmental Toxicology and Pharmacology*, 79, 103414.
47. Olaniyi M.O., Awoyomi J.O, Akinniyi O., Adebisi A, Alaka, O.O., Ajayi, O.L., Jubril J. Afusat, Jarikre, T.A., Emikpe B.O. (2020). Retrospective study of swine respiratory diseases in Ogun and Oyo states, Nigeria: Immunohistochemical detection of *Mycoplasma hyopneumoniae*. *Sokoto. Journal of Veterinary Sciences*, 18 (2), 72-82
48. Akpan, M.O, Samuel O.M & Emikpe, B.O 2020 Peculiar Epidermal Peg Pattern in Cane Rat Skin Sokoto. *Journal of Veterinary Science*, 18 (2), 100-103
49. Genfi, A., Larbie, C., Emikpe, B.O., Oyagbemi, A.A, Firempong, C., and Adjei, C. (2020). Modulation of Oxidative stress and Inflammatory Cytokines as therapeutic mechanisms of *Ocimum americanum* L. extract in Carbon

tetrachloride and acetaminophen-induced hepato-toxicity in rats. *Journal of Evidence-Based Integrative Medicine*, 25, 1-13

50. Larbie, C., Emikpe, O.B., Ademola, A. Oyagbemi, T.A., Jarikre, C.O., and Adjei, E. B. (2020). *Acalypha wilkesiana* mull arg inferno' is Nephroprotective in Gentamicin and Cisplatin: Biochemical, Histological and Immunohistochemical evidence. *Iranian Journal of Toxicology*, 14, (4).
51. Moses, M. O., Emikpe, A. O., Moses, M. K., & Emikpe, B. O. (2020). Combating COVID-19 Lockdown Inactivity in the African Population: Use of Cultural practices and One Health Approach. *Nigerian Journal of Physiological Sciences*, 35(1), 4-9.
52. Oladejo, O.J., Alaka O.E., Jarikre, T.A, Adeniran G.A., Ajani, R.S, Emikpe B.O. (2020) Assessment of Physicochemical characteristics of Awotan dumpsite in Ibadan, South western Nigeria *Nigerian Journal of Physiological sciences* 35, 101-108
53. Adeshina, I., Emikpe, B.O, Abdel Tawwab M, Jenyo-Oni, A., Ajani, E.K. and Abubakar M I. (2020). Dietary clove, *Eugenia carophyllata* buds extracts stimulate healing ability of artificially wounded African catfish *Clarias gariepinus* juveniles. *Journal of Applied Aquaculture*
54. Donkor, S., Larbie, C., Komlaga, G., & Emikpe, B. O. (2020). Evaluation of the Acute Hepatoprotective Potential of Hydroethanolic Extract of *Duranta erecta* L. Parts. *Journal of Toxicology*, 2020.

DEPARTMENT OF CLINICAL STUDIES

ACADEMIC STAFF

Senior Lecturers:

D. O. Eyarefe

E. A. Amemor

H. R. Otsyina

D. K. Dei

R. D. Suu-Ire

E. K.Y. Agyepong

M. Z. Yiryele

R. E. Nyarku

M. Alfa-Mohammed

K. B. Darkwa

J. Dontwi

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Tasiame, W., Johnson, S., Burimuah, V., Akyereko, E., & Amemor, E. (2019). Dog population structure in Kumasi, Ghana: a missing link towards rabies control. *The Pan African Medical Journal*, 33.
2. Nyarku, R., Hassim, A., Jonker, A., & Quan, M. (2020). Development of a Genus-Specific Brucella Real-Time PCR Assay Targeting the 16S-23S rDNA Internal Transcribed Spacer from Different Specimen Types. *Veterinary Sciences*, 7(4), 175.

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

ACADEMIC STAFF:

Associate Professor:

T. Opoku-Agyemang DVM, MVSc, PhD (Moscow)

Lecturer:

D. E. Cobbinah DVM (Cuba), MASc (Australia)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Sia, D. K., Mensah, K. B., Opoku-Agyemang, T., Folitse, R. D., & Darko, D. O. (2020). Mechanisms of ivermectin-induced wound healing. *BMC veterinary research*, 16(1): 1-12.
2. Opoku-Agyemang, T., Cobbinah, E. D., Sia, D. D., Springs, M. S., Folitse, R. D., & Emikpe, B. O. (2020). The Morphometrics and Typology of the Skull in the Ghanaian Local Dog of Non-Descript Breed (*Canis lupus familiaris*). *International Journal of Morphology*, 38(3).
3. Bentum, K. E., Folitse, R. D., Amemor, E., Burimuah, V., Opoku-Agyemang, T., & Emikpe, B. O. (2019). Seroprevalence of *Toxoplasma Gondii* antibodies

- in sheep and goats slaughtered at the Kumasi Abattoir, Ghana. *Journal of Immunoassay and Immunochemistry*, 40(5): 495-501.
4. Ola, O. O., Adeniran, G. A., Opoku-Agyemang, T., Bediako, E., Ishola, O., Jarikre, T. A., & Emikpe, B. O. (2020). Pathology and immunohistochemical evaluation of lungs of cattle slaughtered at metropolitan abattoirs in Nigeria and Ghana. *Journal of Immunoassay and Immunochemistry*, 41(3): 297-310.
 5. Opoku-Agyemang, T., Asare, F. A., Folitse, R. D., Ola, O. O., Jarikre, T. A., & Emikpe, B. O. (2019). Prevalence, predictors and financial implication of cattle recumbency at the Kumasi Animal Market, Ghana. *Animal Research International*, 16(2): 3343-3348.
 6. Folitse, R. D., Opoku-Agyemang, T., Amemor, E., Opoku, E. D., Bentum, K. E., & Emikpe, B. O. (2020). Serological evidence of *Coxiella burnetii* infection in slaughtered sheep and goats at Kumasi Abattoir, Ghana. *Journal of Immunoassay and Immunochemistry*, 41(2): 152-157.
 7. Opoku-Agyemang, T., Oppong, C., Sakyi, S. A., Amemor, E., Sia, D. D., & Emikpe, B. O. (2019). Baseline haematological parameters reference ranges of dogs in the Ashanti region of Ghana. *Animal Research International*, 16(3): 3529-3535.
 8. Opoku-Agyemang, T., Amponsah, M. P., Bonnah, S. G., Mensah, K. B., Jarikre, T. A., & Emikpe, B. O. (2020). Field Evaluation of Some Selected Medicinal Plants for the Treatment of Piglet Diarrhoea In Ghana. *African Journal of Biomedical Research*, 23(1): 107-110.
 9. Bremang, A., Opoku-Agyemang, T., Ockling, S., Emikpe, B. O., & Jarikre, T. A. (2019). Point prevalence of gastrointestinal parasites of game and captive wildlife in the Kumasi Metropolis, Ghana. *Nigerian Journal of Parasitology*, 40(2): 277-283.

COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

ACADEMIC STAFF

Professor:

K. O. Boateng DE, ME (Japan), BSc (Kumasi)

Senior Lecturers:

E. K. Akowuah PhD (UK), MSc, BSc (Kumasi)

I. Acquah BSc (Kumasi), MSc (Canada), PhD (Korea)

B. Kommey MSc (Germany), BSc

E. T. Tchao PhD (Kumasi), BSc

Lecturers:

E. Keelson PhD (Kumasi), BSc

D. A. Y. Agyapong PhD (China), MSc (UK), BSc (Kumasi)

G. S. Klogo PhD (Kumasi), BSc

B. Yeboah – Akowuah PhD (UK), MSc, BSc

H. Nunoo-Mensah PhD (Kumasi), MPhil, BSc

A. S. Agbemenu MSc (Kumasi), BSc

P.E. Adjei MPhil (Kumasi), BSc

Assistant Lecturers:

P. Odame MSc (US), BSc (Kumasi)

J. Yankey MPhil (Kumasi), BSc

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asiedu, W., Boateng, K.O. (2020). Efficient and Secure AAA for Mobile Router in Network Mobility Environment (A3MR-NEMO). International Journal of Computer Applications, 175(17): 12-19.

2. Nunoo-Mensah, H, Boateng, K.O. & Gadze, J.D. (2020). PSTRM: Privacy-Aware Sociopsychological Trust and Reputation Model for Wireless Sensor Networks, *Peer-to-Peer Netw. Appl.*, <https://doi.org/10.1007/s12083-020-00906-5>
3. Oduro-Gyimah, F. K., and Boateng, K. O. (2019). Using Autoregressive Integrated Moving Average Models in the Analysis and Forecasting of Mobile Network Traffic Data. *African Journal of Engineering Research*, 7(1): 1-9.
4. Oduro-Gyimah, F. K., and Boateng, K. O. (2019). Forecasting Mobile Network Traffic Data using Coactive Adaptive Neuro-Fuzzy Inference System Model, London. *Journal of Engineering Research*, 19(1): 21-32.
5. Kotey, S. D., Tchao, E. T. and Gadze, D.J. (2019). A Proposed DoS Detection Scheme for Mitigating DoS Attack Using Data Mining Techniques. *Computers*, 8(4), 85:1-18.
6. Ramde, E.W., Tchao, E. T., Fiagbe, Y. AK., Kponyo J. J. and Atua, AS. (2020). Pilot Low Cost Concentrating Solar Power Systems Deployment in Sub-Saharan Africa: A Case Study of Implementation Challenges. *Sustainability*, 12(15): 6223.
7. Acheampong, F. A, Wenyu, C., and Nunoo-Mensah, H. (2020). Text-based emotion detection: Advances, Challenges and Opportunities. *Engineering Reports*, 2(7): 1-29.
8. Kommey, B., Maazu. H., Adjei, A S. and Issah, J. (2019). Trotro Pass: Ghanaian Commercial Vehicle Passenger Accounting System. *Asian Journal of Research in Computer Science*, 4(3): 1 – 10.
9. Kommey, B., Kotey, S. D. and Opoku, D. (2020). Ultrasonic Sensor-Based Automated Water Dam Shutter. *Journal of Information Technology and Computer Engineering*, 4(1): 1-4.
10. Kommey, B., Acquaye, C. and Abeka, T. A. (2020). GhanaToll: Barrier-Free RFID Toll Collection and Management System for Ghana. *International Journal of Computer Applications*, 176(27): 22 – 29.
11. Opoku, D. and Kommey, B. (2020). FPGA-Based Intelligent Traffic Controller with Remote Operation Mode. *International Journal of Innovative Technology and Interdisciplinary Sciences*, 3(3): 490-500.

CONFERENCE PAPERS/PROCEEDINGS

1. Oduro-Gyimah, F. K., and Boateng, K. O. (2019). Forecasting abilities of MIMO and SISO neural networks: A comparative study using telecommunication

traffic data. In: Proceedings of International Conference on Computing, Computational Modelling and Applications, Cape Coast, Ghana, 27-29 Mar. 2019.

DEPARTMENT OF AGRICULTURAL AND BIOSYSTEMS ENGINEERING

ACADEMIC STAFF LIST:

Professors:

N. Kyei-Baffour	PhD (UK), MSc (UK), BSc (Kumasi), Cert PRA, MGhIE, MGSAAE
A. Bart-Plange	PhD (Kumasi), MSc (Germany), BSc (Kumasi), MGhIE, MGSAAE
S. K. Agodzo	PhD (UK), MSc (UK), BSc (Kumasi), FGhIE, MGSAAE
E. Mensah	PhD (Kumasi), MSc (UK), MSc (Uzbekistan), FGhIE, MGSAAE
A. Addo	PhD (Japan), MSc (Japan), BSc (Kumasi), MGhIE, MGSAAE, MASABE
W. A. Agyare	PhD (Germany), MSc (Belgium), BSc (Kumasi), MGhIE, MGSAAE

Associate Professors:

E. H. Y. Bobobee	PhD (Sweden), MSc (UK), BSc (Kumasi), MGhIE, MGSAAE
S. H. M. Aikins	MPhil (UK), PG. Dip (Kumasi), BSc (Kumasi), MSABE, AIAgrE, MEurAgEng, MGhIE, MGSAAE
F. Kemausour	PhD (Kumasi), MPhil (UK), BSc (Kumasi), MGhIE, MGSAAE, MASABE

Senior Lecturers:

J. O. Darko	PhD (UK), MSc (UK), BSc (Kumasi), MGhIE, MGSAAE
J. Aveyire	Dipl (Germany), BSc (Kumasi), MGhIE, MGSAAE

J. O. Akowuah

MSc (Kumasi), BSc (Kumasi), MGHIE, MGSAAE

Lecturers:

K. A. Aikins

PhD (Australia), MEng (South Korea), BSc (Kumasi), MGSAAE

W. Amponsah

PhD (Italy), MSc (Denmark), BSc (Kumasi), MGSAAE

E. A. Asante

PhD (China), MSc (Kumasi), BSc (Kumasi), MGSAAE

E. Bessah

PhD (Nigeria), MTECH (Nigeria), BSc (Kumasi), MGSAAE

ARTICLES PUBLISHED IN REFERRED JOURNALS

1. Aabeyir R., Adu-Bredu, S., Agyare, W.A. and Weir, M.J.C. (2020). Allometric models for estimating aboveground biomass in the tropical woodlands of Ghana, West Africa. *Forest Ecosystems*, 7:41. <https://doi.org/10.1186/s40663-020-00250-3>
2. Aabeyir, R. and Agyare, W.A. (2020). Woodland access arrangement for charcoal production and its influence on woodland degradation in Kintampo Municipality, Ghana. *Scientific African*, 10: 2468-2276. doi.org/10.1016/j.sciaf.2020.e00572
3. Aikins, K.A., Jensen, T.A. and Antille, D.L. (2020). Three-dimensional scanning of soil surface and furrow profiles using a portable and affordable unit. *Biosystems Engineering*, 193: 279-289. <https://doi.org/10.1016/j.biosystemseng.2020.03.002>.
4. Aikins, K.A., Barr, J.B., Ucgul, M., Jensen, T.A., Antille, D.L., Desbiolles, J.M.A. (2020). No-tillage furrow opener performance: A review of tool geometry, settings and interactions with soil and crop residue. *Soil Research*, 58(7): 603-621. <https://doi.org/10.1071/SR19153>.
5. Abunde, N.F., Asiedu, N.Y. and Addo, A. (2019). Modeling, simulation and optimal control strategy for batch fermentation processes. *International Journal of Industrial Chemistry*. <https://doi.org/10.1007/s40090-019-0172-9>
6. Adongo, T.A., Kyei-Baffour, N., Abagale, F.K. and Agyare, W.A. (2019). Assessment of reservoir sedimentation of irrigation dams in northern Ghana. *Lake and Reservoir Management*, 36(1): 87-105. DOI: 10.1080/10402381.2019.1659461

7. Adongo, T.A., Agyare, W.A., Abagale, F.K. and Kyei-Baffour, N. (2019). Spatial soil loss estimation using an integrated GIS-based revised universal soil loss equation (RUSLE) in selected watersheds in northern Ghana. *International Journal of Engineering, Science and Technology*, 11(4): 58-71.
8. Aikins, K.A., Antille, D.L., Jensen, T.A. and Blackwell, J. (2019). Performance comparison of residue management units of no-tillage sowing systems: A review. *Engineering in Agriculture, Environment and Food*, 12(2): 181-190. Doi: <https://doi.org/10.1016/j.eaef.2018.12.006>
9. Akolgo, G.A., Kemausuor, F., Awafo, E.A., Amankwah, E., Atta-Darkwa, T., Essandoh, E.O., Bart-Plange, A. and de Freitas Maia, C.M.B. (2020). Biochar as a Soil Amendment Tool: Effects on Soil Properties and Yield of Maize and Cabbage in Brong-Ahafo Region, Ghana. *Open Journal of Soil Science*, 10: 91-108.
10. Amuaku, R., Asante, E.A., Ampaw, E. and Gyamfi, G.B. (2019). Effects of Chamber Perforations, Inlet and Outlet Pipe Diameter Variations on Transmission Loss Characteristics of a Muffler Using Comsol Multiphysics. *Advances in Applied Sciences*, 4(6): 104-109. doi: 10.11648/j.aas.20190406.11.
11. Amuaku, R., Huabing, W., Asante, E.A. and Buckman, A. (2019). Effects of Microcavity Local Resonators on the Bandgap Characteristics of a Two-Dimensional Phononic Crystal Structure. *Advances in Applied Sciences*, 4(5): 97–103. doi: 10.11648/j.aas.20190405.11.
12. Anim-Gyampo, M., Anornu, G.K., Agodzo, S.K. and Appiah-Adjei, E.K. (2019). Groundwater Risk Assessment of Shallow Aquifers within the Atankwidi Basin of Northeastern Ghana. *Earth Systems and Environment*, 3(1): 59–72, <https://doi.org/10.1007/s41748-018-0077-3>.
13. Appah, S., Jia, W., Ou, M., Wang, P. and Asante, E.A. (2020). Analysis of potential impaction and phytotoxicity of surfactant-plant surface interaction in pesticide application. *Crop Protection*, 127: 1-8. doi: [10.1016/j.cropro.2019.104961](https://doi.org/10.1016/j.cropro.2019.104961)
14. Appah, S. and Aikins, S.H.M. (2020). Interactive effect of land preparation methods and weeding frequency on seasonal soil properties and maize yield. *European Journal of Agriculture and Food Sciences*, 2(5): 1–8.
15. Asante, E.A., Du, Z., Lu, Y.Z. and Hu, Y.G. (2020). Detection and Assessment of Nitrogen Effect on Cold Tolerance for Tea by Hyperspectral Reflectance with PLSR, PCR, and LM Models. *Information Processing in Agriculture*, 1–18. doi: 10.1016/j.inpa.2020.03.001
16. Awafo, E., Addo, A. and Bart-Plange, A. (2019). Performance analysis of a desiccant evaporative cooling system for mango fruit storage in the

Savannah and Transitional Zones of Ghana. *Agricultural Engineering*, 23(3): 1-14. DOI: <https://doi.org/10.1515/agriceng-2019-0021>

17. Bamaalabong, P.P., Asiedu, N.Y., Neba, F.A. and Addo, A.A. (2020). Dynamic behavior, simulations, and kinetic analysis of two-dimensional substrate-product inhabitation in batch fermentation processes. *Industrial & Engineering Chemistry Research*. DOI:10.1021/acs.iecr.0c01176
18. Osei, I., Kemausuor, F., Commeh, M.K., Akowuah, J.O., Owusu-Takyi, L. (2020). Design, Fabrication and Evaluation of Non-Continuous Inverted Downdraft Gasifier Stove Utilizing Rice husk as feedstock. *Scientific African*. 1(8): e00414.
19. Bessah, E., Raji, A.O., Taiwo, O.J., Agodzo, S.K. and Ololade, O.O. (2020). The impact of varying spatial resolution of climate models on future rainfall simulations in the Pra River Basin (Ghana). *Journal of Water and Climate Change*, 11(4): 1263 – 1283, doi:[10.2166/wcc.2019.258](https://doi.org/10.2166/wcc.2019.258)
20. Bessah, E., Raji, A.O., Taiwo, O.J., Agodzo, S.K., Ololade, O.O. and Strapasson, A. (2020). Hydrological impacts of climate and land use changes: The paradox of regional and local climate effect in the Pra River Basin of Ghana. *Journal of Hydrology: Regional Studies*, 27: 100654. <https://doi.org/10.1016/j.ejrh.2019.100654>
21. Bobobee, E.Y.H., Yakanu, P.N., Marennya, M.O and Ochanda, J.P.O (2019). The TEK Mechanical Cassava Harvester Development in Ghana – Challenges, Opportunities and Prospects for Cassava Production in Africa. *Journal of Engineering in Agriculture and the Environment*, 5(1): 41-60.
22. Bosomtwe, A., Danso, J.K., Osekre, E.A., Opit, G.P., Mbata, G., Armstrong, P., Arthur, F.H., Campbell, J., Manu, N., McNeill, S.G. and Akowuah, J.O. (2019). Effectiveness of the solar biomass hybrid dryer for drying and disinfestation of maize. *Journal of Stored Products Research*, 83: 66-72.
23. Commeh, M.K., Kemausuor, F., Badger, E.N. and Osei, I. (2019). Experimental study of ferrocement downdraft gasifier engine system using different biomass feedstocks in Ghana. *Sustainable Energy Technologies and Assessments*, 31: 124–131.
24. Diemuodeke, E.O., Addo, A., Oko, C.O.C., Mulugetta, Y. and Ojapah, M. M. (2019). Optimal mapping of hybrid renewable energy systems for locations using multi-criteria decision-making algorithm. *Renewable Energy*, 134: 461-477. <https://doi.org/10.1016/j.renene.2018.11.055>
25. Idun-Acquah, N.N., Addo, A. and Bart-Plange, A. (2019). Effect of soaking temperature on water absorption characteristics of selected Ghanaian

- cowpea varieties. *Open Journal of Applied Sciences*, 9: 736-748. <https://doi.org/10.4236/ojapps.2019.99060>
26. Issah, A.-A., Kabera, T. and Kemausuor, F. (2020). Biogas optimisation processes and effluent quality: A review. *Biomass and Bioenergy*, 133: 105449. <https://doi.org/10.1016/j.biombioe.2019.105449>
 27. Koglo, Y.S., Gaiser, T., Agyare, W.A., Sogbedji, J.M. and Kouami, K. (2019). Implications of some major human-induced activities on forest cover using extended change matrix quantity and intensity analysis based on historical Landsat data from the Kloto District, Togo. *Ecological Indicators*, 96: 628-634. <https://doi.org/10.1016/j.ecolind.2018.09.042>
 28. Larbi, I., Forkuor, G., Hountondji, F.C.C., Agyare, W.A. and Mama, D. (2019). Predictive Land Use Change under Business-As-Usual and Afforestation Scenarios in the Vea Catchment, West Africa. *International Journal of Advanced Remote Sensing and GIS*, 8(1): 3011-3029. DOI: <https://doi.org/10.23953/cloud.ijarsg.416>
 29. Nyatuame, M., Amekudzi, L.K. and Agodzo, S.K. (2020). Assessing the land use/land cover and climate change impact on water balance on Tordzie watershed. *Remote Sensing Applications: Society and Environment*, 20: 100381. <http://www.elsevier.com/locate/rsase>.
 30. Neba, F.A., Asiedu, N.Y., Addo, A., Morken, J., Østerhus, S.W. and Seidu, R. (2019). Simulation of two-dimensional attainable regions and its application to model digester structures for maximum stability of anaerobic treatment process. *Water Research*, 163: 114891. <https://doi.org/10.1016/j.watres.2019.114891>
 31. Neba, F.A., Asiedu, N.Y., Addo, A., Morken, J., Østerhus, S.W. and Seidu, R. (2019). Use of attainable regions for synthesis and optimization of multistage anaerobic digesters. *Applied Energy*, 242: 334–350. <https://doi.org/10.1016/j.apenergy.2019.03.095>
 32. Offei, F., Mensah, M. and Kemausuor, F. (2019). Cellulase and acid-catalysed hydrolysis of *Ulva fasciata*, *Hydropuntia dentata* and *Sargassum vulgare* for bioethanol production. *SN Appl. Sci.* 1: 1469. <https://doi.org/10.1007/s42452-019-1501-5>
 33. Offei, F., Mensah, M., Kemausuor, F., Thygesen, A. (2019). A biorefinery approach to bioethanol and bioelectricity co-production from tropical seaweeds. *J Appl Phycol.*, 31: 3899–3913.
 34. Salifu, E., Agyare, W.A., and Larbi, A. (2019). Effect of soil and water conservation methods on maize performance and soil water retention

in Northern Region of Ghana. *International Journal of Scientific and Technology Research*, 8(3): 116-120.

35. Adeyemi, C., Lautenbach, S., Tondoh, J. E., Orekan, V. O. A., Adu-Bredu, S., Kyei-Baffour, N., MAMA, V. J. and Fonweban, J. (2019). The relevance of using in situ carbon and nitrogen data and satellite images to assess aboveground carbon and nitrogen stocks for supporting national REDD + programmes in Africa. *Carbon Balance and Management*, 14(1): 12pp
36. Thiam, S., Villamor, G. B., Kyei-Baffour, N. and Matty, F. (2019). Soil salinity assessment and coping strategies in the coastal agricultural landscape in Djilor, Senegal. *Land Use Policy*, 88: 1-9.

BOOKS CHAPTERS:

1. Amponsah, W., Marra, F., Marchi, L., Roux, H., Braud, I. and Borga M. (2020). Objective Analysis of Envelope Curves for Peak Floods of European and Mediterranean Flash Floods. In: Leal Filho W., Nagy G., Borga M., Chávez Muñoz P., Magnuszewski A. (eds) *Climate Change, Hazards and Adaptation Options*. *Climate Change Management*, pp. 267-276. ISBN 978-3-030-37425-9, Springer, Cham https://doi.org/10.1007/978-3-030-37425-9_14
2. Ahmed, S.D., Agodzo, A.K. and Adjei, K.A. (2020). Designing River Diversion Constructed Wetland for Water Quality Improvement, *Inland Waters – Dynamics and Ecology*, Adam Devlin, Jiayi Pan and Mohammad Manjur Shah, IntechOpen, DOI: 10.5772/intechopen.92119. Available from: <https://www.intechopen.com/books/inland-waters-dynamics-and-ecology/designing-river-diversion-constructed-wetland-for-water-quality-improvement>
3. Schertzer, L., Painuly, J.P., Hansen, J.I., Ackom, E. and Kemausuor, F. (2020). High-impact opportunities for energy efficiency: a case study of improved cookstoves in Ghana, pp 148-162. In: *Energy Efficiency in Developing Countries: Policies and Programmes*, 1st Edition. Eds: Suzana Tavares da Silva, Gabriela Prata Dias. Routledge, Taylor and Francis Group. ISBN: 978-0-367-36197-6

BOOK:

1. Twinomunji, E., Kemausuor, F., Black, M., Roy, A., Leach, M., Oduro, R., Sadhukhan, J., and Murphy, R. (2020). The potential for bottled biogas for clean cooking in Africa. Available from <https://www.mecs.org.uk/working-papers/>

CONFERENCE PROCEEDING

1. Kotir, J.H., Bell, L.W., Kirkegaard, J.A., Whish, J.D., and Aikins, K.A. (2020). Machinery and labour requirements as influenced by diversified farming systems in the Australian Northern Grain Production Region. Paper presented at the Third International Tropical Agriculture Conference (TROPAG 2019), Brisbane, Australia. <https://doi.org/10.3390/proceedings2019036051>. November 11–13, 2019,
2. Kotir, J., Bell, L., Kirkegaard, J., Whish, J., and Aikins, K.A. (2020). Farm resource use as influenced by diverse cropping systems in the Australian Northern cropping zone. Paper presented at the 64th Conference of the Australian Agricultural and Resource Economics Society. Perth, Western Australia, February 12-14, 2020.
3. Awoke, B.G., Baudron, F., Antille, D.L., Kebede, L., Anawte, D.A., Tikuneh, D.B., and Aikins, K.A. (2020). Evaluation of two-wheel tractor attached seeders used in conservation agriculture systems of Ethiopia. In: proceedings of the 2020 ASABE Annual International Meeting. Omaha, Nebraska, US. <https://doi.org/10.13031/aim.202000334>. July 12–15, 2020.
4. Aikins, K.A., Barr, J.B., Jensen, T.A., and Antille, D.L. (2019). Measuring soil surface and furrow profiles using a portable and affordable 3D scanner. In: proceedings of the 2019 ASABE Annual International Meeting, Boston, Massachusetts. Doi: <https://doi.org/10.13031/aim.201900038>, July 7–10, 2019.
5. Bobobee, E.Y.H. (2019). Emerging Innovations and Digitalisation of Agriculture in Africa: the journey of an African Academic and Innovator. Proceedings of the 2 nd Calestous Juma Executive Dialogue on Innovation and Emerging Technologies. Addis Ababa, Ethiopia. October 25-27, 2019.
6. Bobobee, E.Y.H. (2019). Intellectual Property (IP) education and training at Kwame Nkrumah University of Science and Technology, Ghana. Presentation at the WIPO, ARIPO, OAPI workshop on intellectual property, Harare, Zimbabwe, November 5-9, 2019.
7. Bobobee, E.Y.H. (2019). Patents. Presentation at the WIPO & ARIPO Workshop on Trainers of Trainers (ToT) on intellectual property, Accra, Ghana. November 10-15, 2019.
8. Bobobee, E.Y.H. (2019). The use of Drones (UAVs) Solar Power and Emerging Innovations in African agriculture. Proceedings of the 1st Calestous Juma Executive Dialogue on Innovation and Emerging Technologies, Johannesburg, South Africa. March 25-27, 2019.

- Bobobee, E.Y.H. and Yakanu, P.N. (2019). Emerging Innovation to Reduce Drudgery in Cassava Production in Africa. Paper presented at the International Commission of Agricultural Engineering (CIGR) And the Pan African Society of Agricultural Engineering (AFROAGENG) Conference, Rabat, Morocco. September 9-14, 2019.

EXTENSION REPORT

- Kotir, J.H., Bell, L., Kirkegaard, J., Wish, J., and Aikins, K.A. (2020). Labour and machinery requirements: Implications of different crop sequences. 2020 Grains Research Update, Grains Research and Development Corporation (GRDC), Kingston, ACT, Australia.

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC STAFF

Professors:

C. K. Kankam#	PhD (UK), MSc DIC, BSc (Kumasi), MASCE, FGHE
S. N. Odai+	PhD (Japan), MSc, BEng (China), FGA, FGHE, FASI, MIAASH, MASCE, MIAHR
E. Awuah#	PhD (Netherlands), MSc (US), BSc (Kumasi)
Y. A. Tuffour#	PhD (Kumasi), MSc DSC (Israel), BSc (Kumasi), MGHIE
M. Adom-Asamoah	PhD (UK), MSc DIC, BSc (Kumasi), FGHE, MASCE
S. I. K. Ampadu#	PhD (Japan), MSc, BSc (Kumasi), FGHE
M. Salifu	PhD (UK), MSc (Russia), MIHT, FGHE
K. B. Nyarko	PhD (Netherlands), MSc, BSc (Kumasi), MGHIE

Associate Professors:

S. Oduro-Kwarteng	BSc, MSc (Kumasi), PhD (Netherlands)
G. K. Anornu	PhD (Belarus), MSc
R. B. Buamah	PhD (Netherlands), MPhil, (Kumasi), BSc

C. A. Adams	PhD (Kumasi), MSc DIC (UK), BSc (Kumasi), MGHIE
E. A. Donkor	PhD (US), MSc (Netherlands), BSc (Kumasi)

Senior Lecturers:

F. O. K. Anyemedu ##	PhD (Russia), MSc, MGHIE
G. Sossou #	PhD (Russia), MSc, BSc
H. M. K. Essandoh	PhD (UK), MSc (Kumasi), BSc
K. A. Adjei	PhD (China), MSc (Netherlands), BSc (Kumasi)
F. Owusu-Nimo	PhD (USA), MSc, BSc (Kumasi)
D. A. Obeng	PhD (Kumasi), MSc (UK), BSc (Kumasi)

Lecturers:

J. W. Ampofo ##	PhD (Germany), MSc (USA), BSc (Kumasi)
V. K. A. Acquaaah	MPhil (Kumasi), BSc
F. Ohene-Annor *	MSc (Netherlands), BSc (Kumasi)
R. O. Afrifa	PhD (Kumasi), BSc, MGHIE
E. Appiah-Effah	PhD, (Kumasi), MSc, BSc
C. Gyamfi	PhD (South Africa), MSc (Kumasi), BSc
J. O. Twumasi	PhD (US), MSc, BSc
F. N. Charkley	PhD (China), MSc, BSc
R. O. Kwofie	PhD (Russia), MSc, BSc
F. J. F. Ayeh	PhD, (Kumasi), MSc, BSc
K. A. Tutu	

Assistant Lecturers:

O. J. Banahene	MPhil (Kumasi), BSc
----------------	---------------------

*Study Leave **

*On Secondment =
Sabbatical Leave +*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. E. A. Ackom, K.A. Adjei, S.N. Odai (2020). Spatio-temporal rainfall trend and homogeneity analysis in flood prone area: case study of Odaw river basin-Ghana. *SN Applied Sciences*, 2: 2141.
2. F.Y. Logah, K.A. Adjei, E. Obuobie, C. Gyamfi, S.N. Odai (2020). Evaluation and Comparison of Satellite Rainfall Products in the Black Volta Basin. *Environmental Processes*, 8: 119-137.
3. E. Arthur, F.O.K. Anyemedu, C. Gyamfi, K.A. Adjei G.K. Anornu, S.N. Odai (2020). Potential for small hydropower development in the Lower Pra River Basin, Ghana. *Journal of Hydrology: Regional Studies*, 32: 100757
4. A.B.M. Incoom, K.A. Adjei, S.N. Odai (2020). Rainfall variabilities and droughts in the Savannah zone of Ghana from 1960-2015. *Scientific African*, 10: e00571.
5. E.K. Ackom, K.A. Adjei, S.N. Odai (2020). Monitoring land-use and land-cover changes due to extensive urbanization in the Odaw River Basin of Accra, Ghana, 1991–2030. *Modeling Earth Systems and Environment*, 6(2): 1131–1143.
6. B. Appiah, A. Poudyal, D.A. Anum, E.M. Mulogo, S.N. Odai, (2020). Challenges and facilitators of public engagement with water, sanitation, hygiene and other environmental health issues in Ghana and Uganda: Perspectives of scientists, journalists and the public. *Journal of Water Sanitation and Hygiene for Development*, 10(1): 16–26.
7. S.A. Ofosu, K.A. Adjei, S.N. Odai (2020). Ecological vulnerability of the Densu river Basin due to land use change and climate variability. *Cogent Engineering*, 7(1): 1735714.
8. B.K. Badmos, G.B. Villamor, S.K. Agodzo, S.N. Odai, O.S Badmos (2020). Evaluating the impact of an agricultural land-use change adaptation strategy on household crop production in semi-arid Ghana. *Singapore Journal of Tropical Geography*, 42(1): 65-84.
9. J.A. Abungba, D. Khare, S.M. Pingale, K.A. Adjei, C. Gyamfi, S.N. Odai (2020). Assessment of Hydro-climatic Trends and Variability over the Black Volta Basin in Ghana. *Earth Systems and Environment*, 4: 739-755.
10. J. Ashaley, G.K. Anornu, A. Awotwi, C. Gyamfi, M. Anim-Gyampo, (2020). Performance evaluation of Africa CORDEX regional climate models: case

of Kpong irrigation scheme, Ghana. *Spatial Information Research*, 28(6): 735–753.

11. R.K. Yankey, G.K. Anornu, E.K. Appiah-Adjei, S.K. Osae, S.Y. Ganyaglo, (2020). Structural equation modeling and GIS application into non-carcinogenic health risk assessment of the phreatic aquifers of the south-western coastal basin-Ghana. *Modeling Earth Systems and Environment*, 6(4): 2553–2564.
12. A. Gibrilla, J.R. Fianko, S. Ganyaglo, G. Anornu, N. Zakaria, (2020). Nitrate contamination and source apportionment in surface and groundwater in Ghana using dual isotopes (^{15}N and $^{18}\text{O}-\text{NO}_3$) and a Bayesian isotope mixing model. *Journal of Contaminant Hydrology*, 233: 103658.
13. P.A. Opoku, G.K. Anornu, A. Gibrilla, S.Y. Ganyaglo, C.D. Egbi, (2020). Spatial distributions and probabilistic risk assessment of exposure to heavy metals in groundwater in a peri-urban settlement: case study of Atonsu-Kumasi, Ghana. *Groundwater for Sustainable Development*, 10: 100327.
14. C.D. Egbi, G.K. Anornu, S.Y. Ganyaglo, S.-L. Li, S.B. Dampare, (2020). Nitrate contamination of groundwater in the Lower Volta River Basin of Ghana: Sources and related human health risks. *Ecotoxicology and Environmental Safety*, 191: 110227.
15. R.K. Yankey, G.K. Anornu, S.K. Osae, S.Y. Ganyaglo, (2020). Drastic model application to groundwater vulnerability elucidation for decision making: the case of south western coastal basin, Ghana. *Modeling Earth Systems and Environment*, <https://doi.org/10.1007/s40808-020-01031-1>
16. O.I. Francis, G.K. Anornu, K.A. Adjei, E.O. Martin, (2020). Development of water surface area–storage capacity relationship using empirical model for Gurara reservoir, Nigeria. *Modeling Earth Systems and Environment*, <https://doi.org/10.1007/s40808-020-00949-w>.
17. N. Zakaria, G. Anornu, D. Adomako, F. Owusu-Nimo, A. Gibrilla, (2020). Evolution of groundwater hydrogeochemistry and assessment of groundwater quality in the Anayari catchment. *Groundwater for Sustainable Development*, 12: 100489.
18. E.A. Kwarteng, C. Gyamfi, F.O.K. Anyemedu, K.A. Adjei, G.K. Anornu, (2020). Coupling SWAT and bathymetric data in modelling reservoir catchment hydrology. *Spatial Information Research*, 29: 55-69.
19. S.N. Simiyu, R.M. Kweyu, P. Antwi-Agyei, K.A. Adjei, (2020). Barriers and opportunities for cleanliness of shared sanitation facilities in low-income settlements in Kenya. *BMC Public Health*, 20(1): 1632.

20. P. Antwi-Agyei, B. Dwumfour-Asare, K.A. Adjei, R. Kweyu, S. Simiyu, (2020). Understanding the barriers and opportunities for effective management of shared sanitation in low-income settlements—the case of Kumasi, Ghana. *International Journal of Environmental Research and Public Health*, 17(12): 1–17.
21. F.O. Adjei, K.A. Adjei, E. Obuobie, S.N. Odai. (2019). Trends in land use/land cover changes in the Densu River basin and its impact on the Weija reservoirs and the Densu Delta (Sakumo I lagoon) in Ghana. *Geography and regional planning*, 12(4): 76-89.
22. R.A.A. Gyimah, C. Gyamfi, G.K. Anornu, A.Y. Karikari, F.W. Tsyawo, (2020). Multivariate statistical analysis of water quality of the Densu River, Ghana. *International Journal of River Basin Management*, DOI: <http://dx.doi.org/10.1080/15715124.2020.1803337>
23. W. Asare, S. Oduro-Kwarteng, E.A. Donkor, M.A.D. Rockson (2020). Recovery of municipal solid waste recyclables under different incentive schemes in Tamale, Ghana. *Sustainability*, 12(23): 1–19.
24. M.B. Nuagah, P. Boakye, S. Oduro-Kwarteng, Y.A. Sokama-Neuyam (2020). Valorization of faecal and sewage sludge via pyrolysis for application as crop organic fertilizer. *Journal of Analytical and Applied Pyrolysis*, 151: 104903.
25. A. Sulemana, E.A. Donkor, S. Oduro-Kwarteng (2020). Efficiency of municipal solid waste collection systems in Ghana. *Journal of Solid Waste Technology and Management*, 46(1): 58–65
26. D. Sarpong, S. Oduro-Kwarteng, S.F. Gyasi, R. Buamah, E. Donkor, E. Awuah (2019). Biodegradation by composting of municipal organic solid waste into organic fertilizer using the black soldier fly (*Hermetia illucens*) (Diptera: Stratiomyidae) larvae. *International Journal of Recycling of Organic Waste in Agriculture*, 1-10.
27. I. Monney, E.A. Donkor, R. Buamah (2020). Clean vehicles, polluted waters: empirical estimates of water consumption and pollution loads of the carwash industry. *Heliyon*, 6(5): e03952.
28. A. Sulemana, E.A. Donkor, E.K. Forkuo, I.N.A. Ankrah, A.M.O. Musah (2020). Optimized routing of trucks for institutional solid waste collection in Kumasi, Ghana. *Detritus*, 9: 50–58.
29. I.K. Makafui, H.M.K. Essandoh, N.Y. Asiedu, S. Oduro-Kwarteng, (2020). Evaluation of selected activated carbon filters and sand media for nutrient and pathogen removal from an anaerobic baffled reactor effluent system. *Scientific African*, 9: e00523.

30. B. Dwumfour-Asare, K.B. Nyarko, H.M.K. Essandoh, E. Awuah (2020). Domestic greywater flows and pollutant loads: A neighbourhood study within a university campus in Ghana. *Scientific African*, 9: e00489.
31. K.B. Otabil, S.F. Gyasi, E. Awuah, J.A. Kessie, H.D.F.H. Schallig (2020). Biting rates and relative abundance of *Simulium* flies under different climatic conditions in an onchocerciasis endemic community in Ghana. *Parasites and Vectors*, 13(1): 229.
32. P. A. Obeng, S. Oduro-Kwarteng, B. Keraita, H. Bregnhøj, R. C Abaidoo, E. Awuah, F. Konradsen (2019). Redesigning the ventilated improved pit latrine for use in built-up low-income settings. *Journal of Water, Sanitation and Hygiene for Development*, 9(2): 374-379.
33. S.F. Gyasi, A.A. Boateng, E. Awuah, E.O. Antwi (2019). Ellucidating the incidence and the prevalence of *Schistosomiasis* spp infection in riparian communities of the Bui dam. *Journal of Parasitic Diseases*, 43(2): 276-288.
34. P. A. Obeng, S. Oduro-Kwarteng, B. Keraita, H. Bregnhøj, R. C Abaidoo, E. Awuah, F. Konradsen (2019). Optimising ventilation to control odour in the ventilated improved pit latrine. *Modeling Earth Systems and Environment*, 5(1): 133-142.
35. E. Appiah-Effah, G.A. Duku, B. Dwumfour-Asare, I. Manu, K.B. Nyarko, (2020). Toilet chemical additives and their effect on faecal sludge characteristics. *Heliyon*, 6(9): e04998.
36. J. Mantey, K.B. Nyarko, F. Owusu-Nimo, W.E. Akatu, E. Appiah-Effah, (2020). Influence of illegal artisanal small-scale gold mining operations (galamsey) on oil and grease (O/G) concentrations in three hotspot assemblies of Western Region, Ghana. *Environmental Pollution*, 263: 114251.
37. G.A. Duku, E. Appiah-Effah, K.B. Nyarko, B. Dwumfour-Asare (2020). Early live-prototype testing of a low-cost latrine technology for rural and peri-urban communities: The case of a modified pour-flush latrine. *Scientific African*, 8: e00338.
38. J. Mantey, K.B. Nyarko, F. Owusu-Nimo, W.E. Akatu, E. Appiah-Effah (2020). Mercury contamination of soil and water media from different illegal artisanal small-scale gold mining operations (galamsey). *Heliyon*, 6(6): e04312
39. C.Y. Oduro, E. Appiah-Effah, K.B. Nyarko (2020). Assessing policymaker and taxpayer attitudes towards public finance for urban sanitation: the case of sanitation surcharges in two Ghanaian municipalities. *International Journal of Urban Sustainable Development*, 13(1): 83-96.

40. F. Owusu-Nimo, F.K. Boadu (2020). Evaluating effective stress conditions in soils using non-invasive electrical measurements – Laboratory studies. *Journal of Applied Geophysics*, 174: 103961.
41. D.A. Obeng, Y.A. Tuffour, (2020). Prospects of alternative funding sourcing for maintenance of road networks in developing countries. *Transportation Research Interdisciplinary Perspectives*, 8: 100225.
42. M. Poku-Boansi, C. Amoako, D.A. Obeng, (2020). Urban travel patterns and safety among school children around Accra, Ghana. *Journal of Transport & Health*, 15: 100660.
43. D. A. Fredua, S. Okyere, C. A. Adams (2020). Managing procurement in public universities: evidence from university for development studies, Ghana. *JCR*, 7(12): 4401-4414.
44. K.K. Osei, C.A. Adams, W. Ackaah, Y. Oliver-Commey (2019). Signalization options to improve capacity and delay at roundabouts through microsimulation approach: A case study on arterial roadways in Ghana. *Journal of Traffic and Transportation Engineering*, 8(1): 70-82.
45. J.O. Twumasi, P. DeStefano, J.T. Christian (2020). The application of synthetic aperture radar imaging technique to measure moisture content of concrete structures. *Measurement*, 152: 107335.
46. J.O. Twumasi, P. DeStefano, J.T. Christian (2020). A Reliability-Based Condition Assessment of Structural Concrete Using Synthetic Aperture Radar Imaging Techniques. *Research in Nondestructive Evaluation*, 31(4): 216-235.
47. F.N. Charkley, K. Zhang, G. Mei (2019). Shear Strength of Compacted Clays as Affected by Mineral Content and Wet-Dry Cycles. *Advances in Civil Engineering*, <https://doi.org/10.1155/2019/8217029>.
48. K.A. Tutu, D.H. Timm (2020). Asphalt fatigue endurance limit estimation and impact on perpetual pavement design. *International Journal of Pavement Engineering*, <https://doi.org/10.1080/10298436.2020.1797735>.

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

ACADEMIC STAFF LIST

Associate Professors:

P. Y. Okyere

PhD, DEA (France), BSc (Kumasi)

E. A. Frimpong PhD (Kumasi), MSc (UK), BSc (Kumasi)

Senior Lecturer:

E. K. Anto PhD (Kumasi), Dipl.-Ing. (Germany), BSc (Kumasi)

Lecturers:

F. B. Effah PhD, MSc (UK), BSc (Kumasi)

D. Opoku PhD (US), BSc (Kumasi)

E. O. Addo MSc, Cert, (Ukraine)

Assistant Lecturer:

G. Adom-Bamfi MSc (USA), BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asihene, W. D., Effah F. B. & Normanyo, E. (2020). Utilizing Unified Power Flow Controller for Voltage Stability Improvement of the Electric Power Transmission System of Ghana. *Jurnal Nasional Teknik Electro*, 9(1): 51 – 60. <https://doi.org/10.25077/jnte.v9n1.760.2020>
2. Ellis, **M. S.**, Effah, F. B., Ahmed, A. R., Kponyo, J. J., Nourinia, J. et. al (2019). Asymmetric Circularly Polarized Open-Slot Antenna. *International Journal of RF and Microwave Computer-Aided Engineering*, <http://doi.org/10.1002/mmce.22141>
3. Ellis, M. S., Ahmed, A. R., Kponyo, J. J., **Effah**, F. B., Nourinia, J. et. al (2019). Compact broadband circularly polarized printed antenna with a shifted monopole and modified ground plane. *Journal of instrumentation*, <http://doi.org/10.1088/1748-0221/14/11/P11026>
4. **Effah, F. B.**, Okyere, P., Ellis, S. M., Wheeler, P., Watson, A., Clare, J. & Ojo, J. (2019). Three-level indirect matrix converter with two series Z-source networks. *Carpathian Journal of Electrical Engineering*, 13(1): 61-76. <http://cee.cunbm.utcluj.ro/current-issue/>
5. **Effah**, F. B., Okyere, P., Wheeler, P., Watson, A. & Clare, J. (2019). Optimized Space-Vector-Modulated Quasi Z-source NPC Inverter for Solar PV application. *Carpathian Journal of Electrical Engineering*, 13(1): 17-29. <http://cee.cunbm.utcluj.ro/current-issue/>

6. Annan, J. K. & **Effah, F. B.** (2019). Power Loss Analysis of Hybrid PV and PEMFC Storage Integration System Using Fault Tree Analysis. *Ghana Journal of Technology*, 3(2): 9–15.
7. Adu, T. F., Anto, E. K., Ramde, E. & Mensah, L. D. (2020). Determination of Optimum Tilt Angle for Rooftop Solar Photovoltaic System Installation for KikuKunderhaus in Kumasi. *International Journal of Energy and Environmental Science*, 5(1): 7-13.
8. Frimpong, E. A., Okyere, P. Y. and Asumadu, J. (2020). Wavelet analysis and neural network technique for predicting transient stability status. *Carpathian Journal of Electrical Engineering*, 14(1): 42-56.
9. Twumasi, E. Frimpong, E. A. and Novihoho L. (2019). Potential for Energy Saving in Educational Institutions in Ghana. *National Journal of Electrical Engineering*, 8(3): 119-126.

CONFERENCE PAPER/PROCEEDINGS

1. Arthur, J. K., Frimpong, E. A. and Oteng-Adjei J. (2019). Optimization algorithms for solving combined economic emission dispatch: a review. In proceedings of World Congress on Engineering and Computer Science, San Francisco, pp. 210-215. October 22-24, 2019.
2. Arthur, J. K., Frimpong, E. A. and Oteng-Adjei, J. (2019). Literature Survey of Recent Advances in the Solution of Combined Economic Emission Dispatch Problem. In Proceedings of *IEEE AFRICON*, Accra, Ghana, pp. 1-8, doi: 10.1109/AFRICON46755.2019.9133761. September 25-27, 2019.

DEPARTMENT OF GEOLOGICAL ENGINEERING

ACADEMIC STAFF

Associate Professors:

E. K. Appiah-Adjei	PhD (China), MSc (Sweden), BSc (Kumasi), MGhIE, MIAH, MIAHS
S. K. Y. Gawu#	PhD (South Africa), MPhil (Kumasi), BSc (Legon), MGhIG, MIMGA, MMRS, MGGS

Adjunct Professors:

F. K. Boadu	PhD (USA), MSc (Canada), PGD, BSc (Kumasi)
-------------	--

Senior Lecturers:

G. Foli#	PhD (Kumasi), MPhil (Legon), BSc
G. C. Amedjoe#	PhD (Kumasi), MPhil (Legon), BSc

Lecturers:

B. Ali#	PhD (UK), MSc, BSc (Kumasi), MIAH, MIAEG, MGGS
S. Bansah*	PhD (Canada), MSc (USA), BSc (Kumasi)
M. C. Wilson	MSc (Germany), MSc, BSc, Dip (Tarkwa)
S. S. R. Gidigasu	PhD (Kumasi), MPhil, BSc, MGhIE, MGhIG
A. Asare	PhD, (Kumasi) MSc, BSc
A. C. Amenuvor	PhD (China), MSc, BSc (Kumasi)

Adjunct Lecturers:

E. Mensah	MSc (China), BSc (Legon)
K. Takyi-Kyeremeh	MSc, BSc (Kumasi)
S. Owusu-Sarpong	MSc (Poland), MSc (UK), MISRM

#On contract

*On leave of absence

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Egbi, C.D., Anornu, G., Ganyaglo, S.Y., Appiah-Adjei, E.K., Dampare, S.B. and Li, S.L. (2020). Nitrate contamination of groundwater in the Lower Volta River Basin of Ghana: Sources and related human health risks. *Ecotoxicology and Environmental Safety*, 191: 110227. doi.org/10.1016/j.ecoenv.2020.110227
2. Adam, A.B. and Appiah-Adjei, E.K. (2019). Groundwater potential for sustainable irrigation in the Nabogo basin, Northern Region of Ghana. *Groundwater for Sustainable Development*, 9: 100274. doi.org/10.1016/j.gsd.2019.100274
3. Adjaottor, A.A., Bediako, M., Kevern, J.T. and Gawu, S.K.Y. (2019). Feasibility Studies of Using Ghanaian-Nyamebekyere Calcined Clay as Artificial Pozzolan. *ACI Materials Journal*, 116(2): 127-132.

4. Foli, G., Gawu, S.K.Y., Brako, B.A. and Nude, P.M. (2019). Geochemical Assessment of trace metals in Peri-Urban and Bioaccumulation in selected food crops in the Kumasi Metropolis, Ghana. *Canadian Center of Science and Education: Environment and Natural Resources Research*, 9(1). <https://doi.org/10.5539/enrr.v9n1p25>
5. Nkrumah, R., Agyemang, K., Foli, G., Gawu, S.K.Y. and Nude, P.M. (2019). Evaluation of Placer Deposit within Ghana: a case study of the Kwabeng Placer Gold Deposit, North Western Flank of Atewa Range, Eastern Region, Ghana. *International Journal of Engineering Research & Technology*, 8(11). <http://dx.doi.org/10.17577/IJERTV8IS110146>
6. Usman, U.F., Gawu, S.K.Y., Akayuli, C.F.A. and Ofose, B. (2019). Geotechnical, Physico-Chemical and Mineralogical Evaluation of Black Cotton Soil for Potential Use in Drilling Mud Formulation Electronic. *Journal of Geotechnical Engineering*, (24.05): 1307-1315.
7. Foli, G., Agyemang, K., Brako, B.A., Gawu, S.K.Y., Nude, P.M. (2020). Characterisation of alluvial gold exploration data to improve gold recovery in Ghana. *Arab J Geosci.*, 13: 1105. <https://doi.org/10.1007/s12517-020-06073-4>
8. Brako, B.A., Foli, G., Fiadonu, E.B., Amedjoe, C., Aikins, D., Gawu, S.K.Y. (2020). Provenance and Tectonic Setting of some Paleoproterozoic sedimentary rocks in the Chagupana and Tarkwa areas of Ghana: Petrographic and structural constraints. *Earth Sciences Malaysia*, 4(1): 01-07.
9. Brako, B.A., Foli, G., Amedjoe, G.C. and Gawu, S.K.Y. (2020). Petrographic study of some Paleoproterozoic sedimentary rocks in the Chagupana and Tarkwa areas of Ghana. *Journal of Geography and Geology: Coscientia Beam*, 9(1): 38 – 54.
10. Agbenyezi, T.K., Foli, G., Gawu, S.K.Y. (2020). Geochemical characteristics of gold-bearing granitoids at Ayanfuri in the Kumasi Basin, Southwestern Ghana: Implications for the Orogenic related gold systems. *Earth Sciences Malaysia*, 4(2): 96-103.
11. Brako, B.A., Foli, G., Adomako-Ansah, K., Aikins, D., Derry, S. and Gawu, S.K.Y. (2020). Petrography and Geochemistry some Paleoproterozoic granitoids at the North-Eastern margin of the Kumasi Basin in Ghana. *Earth Sciences Malaysia*, 4(2): 87-95.
12. Amenuvor, A.C., Li, G., Wu, J., Hou, Y. and Chen, W. (2020). An image-based method for quick measurement of the soil shrinkage characteristics curve of soil slurry. *Geoderma*, 363: 114165. [doi:10.1016/j.geoderma.2019.114165](https://doi.org/10.1016/j.geoderma.2019.114165)

#A. A. Duker	PhD, MSc (Netherlands), BSc (Kumasi)
#Rev J. Ayer	PhD (Kumasi), MSc (UK), BSc (Kumasi)
J. A. Quaye-Ballard	PhD (China), MSc (Netherlands), BSc (Kumasi)
#E. M. Osei Jnr.	PhD (China), MSc (Netherlands), BSc (Kumasi)

Senior Lecturers:

I. Dadzie	PhD (China), MSc, BSc (Kumasi)
A. Arko-Adjei	PhD, MSc (Netherlands), BSc (Kumasi)
Rev. E. O. Akrofi	PhD, MSc (South Africa), BSc (Kumasi)
S. A. Andam-Akorful	PhD (China), MSc (UK), BSc (Kumasi)
C. Y. Asante	PhD, MPhil, BSc (Kumasi)
A. A. Afrifa	PhD, MSc, BSc (Kumasi)

Lecturers:

#A. B. Agyemang	PG. Dip (UK), PG. Cert. (Sweden), BSc (Kumasi)
Y. M. Asare	PhD, MSc, BSc (Kumasi)
T. Tienaah	PhD, MScE (Canada), BSc (Kumasi)

On Contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Baffoe, P. E. & Duker, A. A. (2019). Application of Multiple Linear Regression Technique to Predict Noise Pollution Levels and Their Spatial Patterns in the Tarkwa Mining Community of Ghana. *American Journal of Mathematical and Computer Modelling*, 4(2): 36-44.
2. Baffoe, P. E. & Duker, A. A. (2019). Evaluation of Two Noise Level Prediction Models: Multiple Linear Regression and a Hybrid Approach. *Urban and Regional Planning*, 4(3): 91.
3. Ashiagbor, G., Amoako, C., Asabere, S. B. & Quaye-Ballard, J. A. (2019). Landscape transformations in rapidly developing peri-urban areas of Accra, Ghana: results of 30 years. *Open Geosciences*, 11(1): 172-182.

4. Awotwi, A., Anornu, G. K., Quaye-Ballard, J. A., Annor, T., Forkuo, E. K., Harris, E., ... & Terlabie, J. L. (2019). Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986–2025. *Catena*, 182: 104129.
5. Antwi, T., Quaye-Ballard, J. A., Arko-Adjei, A., Osei-Wusu, W., & Quaye-Ballard, N. L. (2020). Comparing Spatial Accessibility and Travel Time Prediction to Commercial Centres by Private and Public Transport: A Case Study of Oforikrom District. *Journal of Advanced Transportation*. <https://doi.org/10.1155/2020/8319089>.
6. Boakye, E., Anyemedu, F. O. K., Donkor, E. A. & Quaye-Ballard, J. A. (2020). Spatial distribution of soil erosion and sediment yield in the Pra River Basin. *SN Applied Sciences*, 2(3): 320.
7. Ashiagbor, G., Forkuo, E. K., Asante, W. A., Acheampong, E., Quaye-Ballard, J. A., Boamah, P., ... & Foli, E. (2020). Pixel-based and object-oriented approaches in segregating cocoa from forest in the Juabeso-Bia landscape of Ghana. *Remote Sensing Applications: Society and Environment*, 19: 100349.
8. Osei-Wusu, W., Quaye-Ballard, J., Antwi, T., Quaye-Ballard, N. L. & Awotwi, A. (2020). Forest Loss and Susceptible Area Prediction at Sefwi Wiawso District (SWD), Ghana. *International Journal of Forestry Research*. <https://doi.org/10.1155/2020/8894639>.
9. Adu, P., Forkuo, E. K., Issah, A., Asumadu, I. O., Cadman-Sackey, E., Quarshie, A. A., ... & Ephraim, R. K. (2019). High Incidence of Moderately Reduced Renal Function and Lead Bioaccumulation in Agricultural Workers in Assin South District, Ghana: A Community-Based Case-Control Study. *International journal of nephrology*. <https://doi.org/10.1155/2019/5368427>.
10. Sulemana, A., Donkor, E. A., Forkuo, E. K., Asantewaa, J., Ankrah, I. N. & Musah, A. M. O. (2020). Optimized Routing of Trucks for Institutional Solid Waste Collection in Kumasi, Ghana. *Detritus*, (9): 50.
11. Sulemana, A., Forkuo, E. K., Arthur, E. T., Agyei-Gyamfi, K., Otchere-Darko, E. & Ayaim, M. K. (2020). Multi-Criteria Selection of Suitable Institutional Solid Waste Collection Sites: A Case of KNUST Campus, Kumasi, Ghana. *International Journal of Environment and Geoinformatics*, 7(3): 372-380.
12. Ashiagbor, G., Ofori-Asenso, R., Forkuo, E. K. & Agyei-Frimpong, S. (2020). Measures of geographic accessibility to health care in the Ashanti Region of Ghana. *Scientific African*, 9: e00453.
13. Asare, Y. M., Forkuo, E. K., Forkuor, G. & Thiel, M. (2020). Evaluation of gap-filling methods for Landsat 7 ETM+ SLC-off image for LULC classification in

a heterogeneous landscape of West Africa. *International Journal of Remote Sensing*, 41(7): 2544-2564.

14. Yakubu, C. I., Ayer, J., Laari, P. B., Amponsah, T. Y. & Hancock, C. M. (2019). A mutual assessment of the uncertainties of digital elevation models using the triple collocation technique. *International journal of remote sensing*, 40(14): 5301-5314.
15. Twum, K. O., Asiama, K., Ayer, J. & Asante, C. Y. (2020). Gender, Land and Food Access in Ghana's Suburban Cities: A Case of the Adenta Municipality. *Land*, 9(11): 427.
16. Botsyo, S., Bortei, B. B. & Ayer, J. (2020). CORS Usage for GPS Survey in the Greater Accra Region: Advantages, Limitation, and Suggested Remedies. *Journal of Geovisualization and Spatial Analysis*, 4(2): 1-12.
17. Abaidoo, C. A., Jnr, E. M. O., Arko-Adjei, A. & Prah, B. E. K. (2019). Monitoring the extent of reclamation of small-scale mining areas using artificial neural networks. *Heliyon*, 5(4): e01445.
18. Quaye-Ballard, J. A., Okrah, T. M., Andam-Akorful, S. A., Awotwi, A., Antwi, T., Osei-Wusu, W. & Quaye-Ballard, N. L. (2020). Spatiotemporal dynamics of rainfall in upper east region of Ghana, West Africa, 1981–2016. *SN Applied Sciences*, 2(10): 1-12.
19. Quaye-Ballard, J. A., Okrah, T. M., Andam-Akorful, S. A., Awotwi, A., Osei-Wusu, W., Antwi, T. & Tang, X. (2020). Assessment of vegetation dynamics in Upper East Region of Ghana based on wavelet multi-resolution analysis. *Modeling Earth Systems and Environment*. <https://doi.org/10.1007/s40808-020-00789-8>
20. Sulemana, I. A., Quaye-Ballard, J., Ntori, C., Awotwi, A., Adeyinka, O. M., Okrah, T. M. & Asare-Ansah, A. (2020). Location Mapping of Hydrothermal Alteration Using Landsat 8 Data: A Case of Study in Prestea Huni Valley District, Ghana. *International Journal of Geography and Geology*, 9(1): 13-37. DOI: 10.18488/journal.10.2020.91.13.37
21. Okrah, T. M., Quaye-Ballard, J. A., Andam-Akorful, S. A. & Sulemana, I. A. (2019). Assessing Spatial and Temporal Precipitation Dynamics in Upper East Region of Ghana Using Chirps Data from 1981 to 2016. *International Journal of Geography and Geology*, 8(4): 110-127. doi: 10.18488/journal.10.2019.84.110.127

CONFERENCE PROCEEDINGS

1. Quaye-Ballard, N. L., Asenso-Gyambibi, D. & Quaye-Ballard, J. (2020). Unmanned Aerial Vehicle for Topographical Mapping of Inaccessible Land Areas in Ghana: A Cost-Effective Approach, in FIG Working Week 2020 Smart surveyors for land and water management. Conference Proceedings. Amsterdam, the Netherlands, p.14, May 10-14, 2020.

DEPARTMENT OF MATERIALS ENGINEERING

ACADEMIC STAFF

Professors:

S. Kwofie

F. W. Y. Momade

Associate Professors:

A. A. Adjaottor

A. Andrews

Senior Lecturers:

E. Gikunoo

K. Mensah-Darkwa

Lecturers:

Y. Gbologah

E. K. Arthur

F. O. Agyemang

B. Koomson

ARTICLES IN PUBLISHED REFEREED JOURNALS

1. Chu, W., Shi, Z., Hou, Y., Ma, D., Bai, X., Gao, Y. and Yang, N. (2020). Trifunctional of phosphorous doped NiCo₂O₄ nanowires materials for

- asymmetric supercapacitor, OER and HER. *Applied Materials & Interfaces*, 12(2): 2763-2772. DOI: 10.1021/acsami.9b13182
2. Zhao, X., Yang, H., Hou, Y., Gbologah, L., Zhu, L. and Wang, Y. (2019). Systematically controlled synthesis of rGO/nano-MnOx materials for supercapacitors. *Progress in Natural Science: Materials International*, 29(5): 504-510. DOI: 10.1016/j.pnsc.2019.09.003
 3. Arthur, K. E., Gikunoo, E., Agyemang, O. F., Azeko, T. S., Andrews, A., Twenewaa, A. (2020). Material selection for water pipes by the multi-objective decision-making method: The case of alternative materials for PVC pipes. *Journal of Science and Technology*, 5(1): 29 – 42.
 4. Mensah-Darkwa, K., Agyemang, F. O., Yeboah, D. and Akromah, S. (2020). Dye-sensitized solar cells based on graphene oxide and natural plant dye extract. *Materials Today Proceedings*. <https://doi.org/10.1016/j.matpr.2020.02.391>
 5. Koomson, B. and Asiam, E. K. (2020). Arsenic Adsorption by Some Iron Oxide Minerals; Influence of Interfacial Chemistry. *Ghana Mining Journal*, 20(2): 43-48.
 6. Amankwah, A. A., Quaye-Ballard, J. A., Koomson, B., Amankwah, R. K., Awotwi, A., Kankam, B. O., Opuni-Frimpong, N. Y., Siaw, D. B. and Adu-Bredu, S. (2020). Deforestation in Forest-Savannah Transition Zone of Ghana; Boabeng-Fiema Monkey Sanctuary. *Global Ecology, and Conservation*, 25: e01440.
 7. Bofo-Mensah, G., Darkwa, K. M. and Laryea, G. (2020). Effect of combustion chamber material on the performance of an improved biomass cookstove. *Case Studies in Thermal Engineering*, 21: 100688.
 8. Owusu, M., Mensah-Darkwa, K., Andrews, A., Davis, F. and Phelan, P. (2020). Effect of transient low-grade solar heat on liquid thermogalvanic cells. *Materials Today: Proceedings*, 38(2): 767-772.
 9. Mensah, M. K., Mensah-Darkwa K., Drebenstedt, C., Annam, B. V. and Armah, E. K. (2020). Occupational Respirable Mine Dust and Diesel Particulate Matter Hazard Assessment in an Underground Gold Mine in Ghana. *Journal of Health and Pollution*. DOI: 10.5696/2156-9614-10.25.200305
 10. Tabi, R. N., Agyemang, F. O., Mensah-Darkwa, K., Arthur, E. K., Gikunoo, E. and Momade, F. (2021). Zeolite Synthesis and its Application in Water Defluorination. *Materials Chemistry and Physics*, 261: 124229.
 11. Flomo, M., Azeko, S. T., Arthur, E. K., Kukurah, J.-D., Mustapha, K., Annan, E. and Agyei-Tuffour, B. (2020). Reinforcement of Cement Mortar with

Recycled Polyethylene Waste for Construction Applications. *Journal of Composite Materials*, <https://doi.org/10.1177%2F00219983211000249>.

12. Opoku, P., Gikunoo, E., Arthur, E. K. and Foli, G. (2020). Removal of selected heavy metals and metalloids from an artisanal gold mining site in Ghana using indigenous plant species. *Cogent Environmental Science*, 6(1): 1-28. DOI:10.1080/23311843.2020.1840863.
13. Arthur, E. K. and Gikunoo E. (2020). Property analysis of thermal insulating materials made from Ghanaian anthill clay deposits. *Cogent Engineering*, 7(1): 1827493. DOI: 10.1080/23311916.2020.1827493.
14. Arthur E. K. and Azeko, S. T. (2020). Surface Hardening of Ferrous Materials with Cassava (*Manihot spp.*) Waste: A Review. *Scientific African*, p.e00483. DOI:10.1016/j.sciaf.2020.e00483
15. Arthur, E. K., Gikunoo, E., Akromah, S., Azeko, S. T. and Dzikunu, P. (2020). Alternative materials for grey cast iron corn-mill plates by computer-aided selection and weighted property methods: the case of Ghana. *SN Applied Sciences*, 2(8): 1-9. DOI.org/10.1007/s42452-020-3174-5.
16. Arthur, E. K., Gikunoo, E., Agyemang, F. O., Azeko, S. T., Andrews, A. and Twenewaa A. (2020). Material Selection for Water Pipes by the Multi-Objective Decision-Making Method: The Case of Alternative Materials for PVC Pipes. *Journal of Science and Technology*, 5(1): 29-42.
17. Ampaw, E. K., Arthur, E. K., Badmos, A. Y., Obayemi, J. D., Adewoye, O. O., Adetunji, A. R., Olusunle, S. O. O. and Soboyejo, W. O. (2019). Sliding wear characteristics of pack cyanided ductile iron. *Journal of Materials Engineering and Performance*, 28(12): 7227-7240.
18. Kwofie, S. and Zhu, M.L. (2019). Modeling R-dependence of near-threshold fatigue crack growth by combining crack closure and exponential mean stress model. *International Journal of Fatigue*, 122: 93-105.
19. Adu, J.K., Fafanyo, D., Orman, E., Ayensu, I., Amengor, C.D. and Kwofie, S. (2020). Assessing metal contaminants in milled maize products available on the Ghanaian market with Atomic Absorption Spectrometry and Instrumental Neutron Activation Analyser techniques. *Food Control*, 109: p.106912.
20. Musah, J.D., Ilyas, A.M., Novitskii, A., Serhienko, I., Egbo, K.O., Saianand, G., Khovaylo, V., Kwofie, S., Yu, K.M. and Roy, V.A. (2020). Effective decoupling of seebeck coefficient and the electrical conductivity through isovalent substitution of erbium in bismuth selenide thermoelectric material. *Journal of Alloys and Compounds*, p.157559.

Senior Lecturer

E.W. Ramde	PhD (Kumasi), MSc, BSc, Dip (Burkina Faso)
Y.A.K. Fiagbe	PhD, MSc, BSc (Kumasi)
A. Agyei-Agyemang	PhD (Kumasi), MSc, BSc (Germany)
J. Ampofo	PhD, MSc (USA), BSc (Kumasi)
P.O. Tawiah	MSc, BSc (USA)
L. D. Mensah	PhD, MSc (UK), BSc (Kumasi)
D. A. Quansah	PhD (Norway), MSc, BSc (Kumasi)
R. Opoku	PhD, MSc (UK), BSc (Kumasi)

Lecturers:

M. N. Sackey	MSc (Norway), BSc (Kumasi)
E. Akyereko Adjei (Mrs.)	PhD, MSc (UK), BSc (Kumasi)
F. K. A. Nyarko	PhD (Kumasi), MSc (UK), BSc (Kumasi)
G. K. K. Ayetor	PhD (Kumasi), MSc (UK), BSc (Kumasi)
C. K. K. Sekyere	PhD, MSc, BSc (Kumasi)
D. E. K. Dzebre	PhD (Norway), MSc, BSc (Kumasi)
F.W. Adam	MSc, BSc (Kumasi)
K.O. Amoabeng	PhD (South Korea), MSc, BSc (Kumasi)
S. Boahen	PhD, MEng (South Korea), BSc (Kumasi)
G. F. K. Tay	PhD, MSc (Canada), BSc (Kumasi)

Technical Instructor:

I. A. Edwin	PG. Dip (Italy), Dip (Kumasi)
-------------	-------------------------------

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Sekyere, C.K.K., Adams, F. W., Davis, F. and Forson, F. K. (2020). Mathematical modelling and validation of the thermal buoyancy characteristics of a mixed mode natural convection solar crop dryer with back up heater. *Scientific African*, 8: e0044.

2. Amoabeng, K.O., Lee, K.H. and Choi, J.M. (2020). Performance investigation of a novel calorimeter for a heat pump system according to flow loops. *Journal of Mechanical Science and Technology*, 34: 1749-1763. doi.org/10.1007/s12206-020-0337-7.
3. Amoabeng, K. O., Lee, K. H. and Choi, J. M. (2019). Modeling and simulation performance evaluation of a proposed calorimeter for testing a heat pump system. *Energies*, 12: 4589. doi.org/10.3390/en12234589.
4. Mensah, K., Amoabeng, K. O., Apraku, D. Intsiful, J. and Boahen, S. (2019). Prospects of ground source heat pump for space cooling in Ghana. *International Journal of Recent Scientific Research*, 10(11): 36059-36067. doi.org/10.24327/ijrsr.2019.1011.4229
5. Dzebre, D.E.K. and Adaramola, M.S. (2020). A preliminary sensitivity study of Planetary Boundary Layer Parameterisation schemes in the weather research and forecasting model to surface winds in coastal Ghana. *Renewable Energy*, 146: 66-86.
6. Dzebre, D.E.K. and Adaramola, M.S. (2019). Impact of Selected Options in the Weather Research and Forecasting Model on Surface Wind Hindcasts in Coastal Ghana. *Energies*, 12(19): 3670.
7. Opoku, R., Adjei, E.A., Ahadzie, D.K. and Agyarko, K.A. (2020). Energy efficiency, solar energy and cost saving opportunities in public tertiary institutions in developing countries: The case of KNUST, Ghana. *Alexandria Engineering Journal*, 59: 417–428. <https://doi.org/10.1016/j.aej.2020.01.011>.
8. Opoku, R., Obeng, G.Y., Darkwa, J. and Kwofie, S. (2020). Minimizing heat transmission loads and improving energy efficiency of building envelopes in sub-Saharan Africa using bio-based composite materials. *Scientific African*, 8: e00358. <https://doi.org/10.1016/j.sciaf.2020.e00358>
9. Opoku, R. and Kizito, J.P. (2020). Experimental investigation of heat transfer characteristics and performance of smooth and wicking surfaces in spray cooling for high heat flux applications. *Results in Engineering*, 6: 100119. <https://doi.org/10.1016/j.rineng.2020.100119>
10. Opoku, R., Obeng, G.Y., Adjei, A.A., Davis, F. and Akuffo, F.O. (2020). Integrated system efficiency in reducing redundancy and promoting residential renewable energy in countries without net-metering: A case study of a SHS in Ghana. *Renewable Energy*, 155: 65-78. <https://doi.org/10.1016/j.renene.2020.03.099>
11. Opoku, R., Adjei, E.A., Obeng, G.Y., Severi, L. and Bawa, A.-R. (2020). Electricity access, community healthcare service delivery and rural development nexus:

- Analysis of 3 solar electrified CHPS in off-grid communities in Ghana. *Journal of Energy*. Article ID 9702505) 1-10. <https://doi.org/10.1155/2020/9702505>
12. Osei, E.Y., Opoku, R., Sunnu, A.K. and Adaramola, M.S. (2020). Development of High Performance Airfoils for Application in Small Wind Turbine Power Generation. *Journal of Energy*, 1-9. <https://doi.org/10.1155/2020/9710189>
 13. Obeng, G.Y., Amoah, D.Y., Opoku, R., Sekyere, C.K.K., Adjei, E.A. and Mensah, E. (2020). Coconut Wastes as Bioresource for Sustainable Energy: Quantifying Wastes, Calorific Values and Emissions in Ghana. *Journal of Energies*, 13: 2178. <https://doi:10.3390/en13092178>
 14. Agyarko, K.A., Opoku, R. and Buskirk, R.V. (2020). Removing barriers and promoting demand-side energy efficiency in households in Sub Saharan Africa: A case-study in Ghana. *Energy Policy*, 137 :111149. <https://doi.org/10.1016/j.enpol.2019.111149>.
 15. Ahadzie, D.K., Opoku, R., Ware, S.N.O. and Mensah, H. (2020). Analysis of occupant behaviour in the use of air-conditioners in public buildings in developing countries: evidence from Ghana. *International Journal of Building Pathology and Adaptation*. <https://www.emerald.com/insight/2398-4708>.
 16. Quagraine, K.A., Ramde, E.W., Fiagbe, Y.A.K. and Quansah, D.A. (2020). Evaluation of time lag and decrement factor of walls in a hot humid tropical climate. *Thermal Science and Engineering Progress*. DOI: 10.1016/j.tsep.2020.100758
 17. Ramde, E.W., Tchao, E.T., Fiagbe, Y.A.K., Kponyo, J.J., Atuah, A.S. (2020). Pilot Low-Cost Concentrating Solar Power Systems Deployment in Sub-Saharan Africa: A Case Study of Implementation Challenges. *Sustainability*, 12: 6223. DOI: 10.3390/su12156223 ISSN: 2071-1050
 18. Fiagbe, Y. A. and Ramde, E.W. (2020). Friction Coefficient of Municipal Solid Waste Components. *International Journal of Engineering Technologies and Management Research*, 7(7): 1-7. DOI: 10.29121/ijetmr.v7.i7.2020.702 ISSN: 2454-1907
 19. Uba, F., Fiagbe, Y.A.K., Opoku, R., Forson, F.K. and Nyantakyi, E.K. (2020). CFD modelling and analysis of the trajectory and behaviour of oil pollutant particles in the Ghanaian territorial waters. *Scientific African*. DOI: 10.1016/j.sciaf.2020.e00411 ISSN: 2468-2276
 20. Sekyere, C.K.K., Davis, F., Fiagbe, Y.A.K. and Amoo, R.N.G. (2020). Techno-Economic Assessment of Non-Revenue Water: A Case Study at AER, GWCL. *Journal of Water Resource and Protection*, 12: 480-494. DOI: 10.4236/jwarp.2020.126029 ISSN: 1945-3094

21. Fiagbe, Y.A.K. (2020). Plasma Gasification as Optional Sustainable Treatment of Municipal Solid Waste in Ghana. *Journal of Waste Management and Disposal*. www.scholarena.com ISSN: 2641-8827
22. Abdul-Ganiyu, S., Quansah, D.A., Ramde, E.E., Seidu, R. and Adaramola, M.S. (2020). Comparative experimental investigation of solar Photovoltaic-thermal (PVT) and solar Photovoltaic (PV) modules in a hot humid tropical climate. *Energies*, 13: 2701. <https://www.mdpi.com/1996-1073/13/11/2701>
23. G. K. Ayetor, David A. Quansah, Eunice A. Adjei (2020). Towards Zero Vehicle Emissions in Africa: A case study of Ghana. *Energy Policy* vol. 143. <https://doi.org/10.1016/j.enpol.2020.111606>
24. Quansah, D.A., Adaramola, M.S. and Takyi, G. (2020). Degradation and longevity of solar photovoltaic modules-An analysis of recent field studies in Ghana. *Energy Science and Engineering*, 1-13. <https://onlinelibrary.wiley.com/doi/full/10.1002/ese3.651>
25. Ayetor, G.K., Sunnu, A.K. and Kesse, M.A. (2019). Engine performance and emissions of fuel produced from palm kernel oil. *Biofuels*, 1-7. <https://doi.org/10.1080/17597269.2019.1672006>.
26. Kesse, M.A., Buah, E., Handroos, H. and Ayetor, G.H. (2020). Development of an Artificial Intelligence Powered TIG Welding Algorithm for the Prediction of Bead Geometry for TIG Welding Processes using Hybrid Deep Learning. *Metals*, 10(4): 451.
27. Sunnu, A.K., Ayetor, G.K. and Gaye, J.M. (2019). Straight vegetable oil fuel performance and exhaust emissions under turbocharged and naturally aspirated conditions. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-11. <https://doi.org/10.1080/15567036.2019.1677822>
28. Nyarko, F.K.A., Takyi, G. and Amalu, E.H. (2020). Robust crystalline silicon photovoltaic module (c-Si PVM) for the tropical climate: Future facing the technology. *Scientific African*, 8: e00359. <https://www.sciencedirect.com/science/article/pii/S2468227620300971>
29. Commeh, M.K., Agyei-Agyemang, A., Kwarteng, E., Sarpong, J. and Heijndermans, E. (2020). Flat Bottom Pot Institutional Cookstove: Assessing the Efficiency and Power with and without a Blower. *International Journal of Chemical Sciences*, 19(1): 304.
30. Adu, T.F., Anto, E.K., Ramde, E. and Mensah, L.D. (2020). Determination of Optimum Tilt Angle for Rooftop Solar Photovoltaic System Installation for KikuKinderhaus in Kumasi. *International Journal of Energy and Environmental Science*, 5(1): 7-13. doi:10.11648/j.ijees.20200501.12

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Sokama-Neuyam, Y. A., Ursin J. & Boakye, P. (2019). Experimental Investigation of the Mechanisms of Salt Precipitation during CO₂ Injection in Sandstone. C: Journal of Carbon Research, 5(1): 4.
2. Sokama-Neuyam, Y. A., Boakye, P., Aggrey, W. N., Obeng, N. O., Aduboahene, F., Woo, S. H. & Ursin, J.R. (2020). Theoretical Modeling of the Impact of Salt Precipitation on CO₂ Storage Potential in Fractured Saline Reservoirs. ACS Omega, 5(24): 14776-14785. doi:10.1021/acsomega.0c01687.
3. Sokama-Neuyam, Y. A., Aduboahene, F., Boakye, P., Aggrey, W.N. & Ursin, J.R. (2020). Theoretical Modelling of the Effect of Temperature on CO₂ Injection in Deep Saline Formations. Greenhouse Gases: Science and Technology, 10(1): 4-14. doi:10.1002/ghg.1951.
4. Sun, L., Cui, H., Ge, Q., Adenutsi, C.D. and Hao, X. (2020). Spatial pattern of a comprehensive fE index for provincial carbon emissions in China. Energies, 13(10): 1-18.
5. Zhang, L., Li, Z., Li, H., Adenutsi, C. D., Lai, F., Wang, K. & Yang, S. (2020). Application of polynomial chaos expansion to optimize injection-production parameters under uncertainty. Mathematical Problems in Engineering, 1-13
6. Wang, L., Li, Z., Adenutsi, C. D. & Wang, C. (2020). An experimental study of the effects of three metallic oxide nanoparticles on oil – water relative permeability curves derived from the JBN and extended JBN methods. Journal of Petroleum Science and Engineering, 192: 1-12.
7. Sarkodie, K. & Fergusson-Rees, A. (2020). Flow Regime Identification in Vertical Upward Gas-Liquid Flow Using an Optical Sensor with Linear and Quadratic Discriminant Analysis. Journal of Fluids Engineering, 143(2): 021401.
8. Erzuah, S., Fjelde, I., & Omekeh, A. V. (2019). Wettability Estimation Using Surface-Complexation Simulations. Society of Petroleum Engineers. DOI: <https://doi.org/10.2118/185767-PA>

CONFERENCE PAPERS/PROCEEDINGS

1. You, J., Ampomah, W., Sun, Q., Kutsienyo, E. J., Balch, R. S., & Cather, M. (2019). Multi-Objective Optimization of CO₂ Enhanced Oil Recovery Projects Using a Hybrid Artificial Intelligence Approach. In SPE Annual Technical Conference and Exhibition. Society of Petroleum Engineers. June, 2019.

2. Kumar, A., Bear, A., Hu, H., Hammack, R., Harbert, W., Ampomah, W., ... & Tsoflias, G. (2019). Seismic monitoring of CO₂-EOR operations in the Texas Panhandle and southern Kansas using surface seismometers. In SEG Technical Program Expanded Abstracts 2019 (pp. 4903-4907). Society of Exploration Geophysicists. June 2019.
3. Kutsienyo, E. J., Ampomah, W., Sun, Q., Balch, R. S., You, J., Aggrey, W. N., & Cather, M. (2019). Evaluation of CO₂-EOR Performance and Storage Mechanisms in an Active Partially Depleted Oil Reservoir. In SPE Europec featured at 81st EAGE Conference and Exhibition. Society of Petroleum Engineers. June, 2019.
4. You, J., Ampomah, W., Kutsienyo, E. J., Sun, Q., Balch, R. S., Aggrey, W. N., & Cather, M. (2019). Assessment of Enhanced Oil Recovery and CO Storage Capacity Using Machine Learning and Optimization Framework. In SPE Europec featured at 81st EAGE Conference and Exhibition. Society of Petroleum Engineers. June, 2019.
5. McMillan, M., Will, R., Ampomah, W., Balch, R., & Czoski, P. (2019, June). Coupled Hydrodynamic-Geomechanical Modelling of CO₂-WAG Field Development at Farnsworth Unit: A Case Study. In SPE Europec featured at 81st EAGE Conference and Exhibition. Society of Petroleum Engineers. June 2019.
6. McMillan, M., Will, R., Ampomah, W., Balch, R. and Czoski, P. (2019). Coupled Geomechanical Modeling to Assess Cap Rock Integrity and Mechanical Fault Stability: Application to Farnsworth Field Unit Project. In SPE Western Regional Meeting. Society of Petroleum Engineers. April, 2019.
7. Mawashi, N., Sarkodie, K., Akubo, S., Zhao, D. & Diaz, P. (2019). Investigation of the Severity of Wax Deposition in Bend Pipes Under Subcooled Pipelines Conditions. In SPE Europe featured at 81st EAGE Conference and Exhibition. Society of Petroleum Engineers. June, 2019.
8. Makwashi, N., Barros, D.S.D., Sarkodie, K., Zhao, D. and Diaz, P.A. (2019). Depositional Behaviour of Highly Macro-Crystalline Waxy Crude Oil Blended with Polymer Inhibitors in a Pipe with a 45-Degree Bend. In SPE Offshore Europe Conference and Exhibition. Society of Petroleum Engineers, September, 2019.
9. Sarkodie, K., Fergusson-Rees, A., Makwashi, N. and Diaz, P. (2019). Slug Flow Monitoring in Pipes Using a Novel Non-Intrusive Optical Infrared Sensing Technology. In SPE Europe featured at 81st EAGE Conference and Exhibition. Society of Petroleum Engineers, June 2019.

4. Commey, D., Klogo, G.S., Gadze, J.D. (2020). Performance comparison of 3DES, AES, Blowfish and RSA for Dataset Classification and Encryption in Cloud Data Storage. *International Journal of Computer Applications*, 177(40): 17-22.
5. Gadze, J.D., Agyekum, K.A.P., Nuagah, S.J. and Affum, E.A. (2019). Improved Propagation Models for LTE Path Loss Prediction in Urban & Suburban Ghana. *International Journal of Wireless & Mobile Networks*, 11(6): 35 – 53.
6. Kotey, S.D., Tchao, E.T. and Gadze, J.D. (2019). A Proposed DoS Detection Scheme for Mitigating DoS Attack Using Data Mining Techniques. *MDPI Computers*, 8(4): 85. <https://doi.org/10.3390/computers8040085>
7. Kponyo, J.J., Coker, K., Agyemang, J.O. and JDer, J. (2019). An Algorithm to Determine the Extent of an Epidemic Spread: A NetLogo Modeling Approach. *Engineering and Applied Sciences*, 4(4): 74-78. doi: 10.11648/j.eas.20190404.11
8. Agyemang, J.O., Kponyo, J.J. Klogo, G.S. and Boateng, J.O. (2020). Lightweight route access point detection algorithm for WiFi-enabled Internet of Things (IoT) devices. *Internet of Things*, 11: 2542-6605. <https://doi.org/10.1016/j.iot.2020.100200>.
9. Ramde, E.W., Tchao, E.T., Fiagbe, Y.A.K., Kponyo, J.J. and Atuah, A.S. (2020). Pilot Low-Cost Concentrating Solar Power Systems Deployment in Sub-Saharan Africa: A Case Study of Implementation Challenges. *Sustainability*, 12: 6223. <https://www.mdpi.com/2071-1050/12/15/6223>
10. Kponyo, J.J., Agyemang, J.O., Klogo, G.S. and Boateng, J.O. (2020). Lightweight and host-based detail of service (DoS) detection and defense mechanism for resource-constrained IoT devices. *Internet of Things*, 12: 100319. <https://doi.org/10.1016/j.iot.2020.100319>.
11. Asakipaam, S.A., Kponyo, J.J., Agyemang, J.O., Appiah-Twum, F. (2020). Design of a minimal overhead control traffic topology discovery and data forwarding protocol for software-defined wireless sensor networks. *International Journal of Communication Networks and Information Security*, 12(3). 2020. <https://www.ijcnis.org/index.php/ijcnis/article/view/4803>
12. Kponyo, J.J., Agyemang, J.O. and Klogo, G.S. (2020). Detecting End-Point (EP) Man-In-The-Middle (MITM) Attack based on ARP Analysis: A Machine Learning Approach. *International Journal of Communication Networks and Information Security*, 12(3): 384-388.
13. Asakipaam, S.A., Kponyo, J.J., Agyemang, J.O., Appiah-Twum, F. (2020). A Critical Survey on overhead control traffic reduction strategies in software-

defined wireless sensor networks. *International Journal of Computer Networks and Applications*, 2020 [Accepted].

THE BREW-HAMMOND ENERGY CENTRE

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Osei, I., Kemausuor, F., Commeh, M.K., Akowuah, J.O., & Owusu-Takyi, L. (2020). Design, Fabrication and Evaluation of Non-Continuous Inverted Downdraft Gasifier Stove Utilizing Rice husk as feedstock. *Scientific African*, 1: 8:e00414.
2. Akolgo, G.A., Kemausuor, F., Awafo, E.A., Amankwah, E., Atta-Darkwa, T., Essandoh, E.O., Bart-Plange, A. & de Freitas Maia, C.M.B. (2020). Biochar as a Soil Amendment Tool: Effects on Soil Properties and Yield of Maize and Cabbage in Brong-Ahafo Region, Ghana. *Open Journal of Soil Science*, 10: 91-108.
3. Issah, A.-A., Kabera, T., & Kemausuor, F. (2020). Biogas optimisation processes and effluent quality: A review. *Biomass and Bioenergy*, 133: 105449. <https://doi.org/10.1016/j.biombioe.2019.105449>
4. Offei, F., Mensah, M., & Kemausuor, F. (2019). Cellulase and acid-catalysed hydrolysis of *Ulva fasciata*, *Hydropuntia dentata* and *Sargassum vulgare* for bioethanol production. *SN Appl. Sci.*, 1: 1469. <https://doi.org/10.1007/s42452-019-1501-5>
5. Offei, F., Mensah, M., Kemausuor, F., Thygesen, A. (2019). A biorefinery approach to bioethanol and bioelectricity co-production from tropical seaweeds. *J Appl Phycol.*, 31: 3899–3913.
6. Commeh, M.K., Kemausuor, F., Badger, E.N., & Osei, I. (2019). Experimental study of ferrocement downdraft gasifier engine system using different biomass feedstocks in Ghana. *Sustainable Energy Technologies and Assessments*, 31: 124–131.
7. Twinomunji, E., Kemausuor, F., Black, M., Roy, A., Leach, M., Oduro, R., Sadhukhan, J., & Murphy R. (2020). The potential for bottled biogas for clean cooking in Africa. Available from <https://www.mecs.org.uk/working-papers/>
8. Frimpong, E. A., Okyere, P. Y. & Asumadu, J. (2020). Wavelet analysis and neural network technique for predicting transient stability status. *Carpathian Journal of Electrical Engineering*, 14(1): 42-56.

9. Twumasi, E. Frimpong, E. A. & Novihoho L. (2019). Potential for Energy Saving in Educational Institutions in Ghana. *National Journal of Electrical Engineering*, 8(3): 119-126.
10. Abdul-Ganiyu, S., Quansah, D.A., Ramde, E.E., Seidu, R., & Adaramola, M.S. (2020). Comparative experimental investigation of solar Photovoltaic-thermal (PVT) and solar Photovoltaic (PV) modules in a hot humid tropical climate. *Energies*, 13: 2701. <https://www.mdpi.com/1996-1073/13/11/2701>
11. Ayetor, G.K., Quansah, D.A., & Adjei, E.A. (2020). Towards Zero Vehicle Emissions in Africa: A case study of Ghana. *Energy Policy*, 143. <https://doi.org/10.1016/j.enpol.2020.111606>
12. Quansah, D.A., Adaramola, M.S., & Takyi, G. (2020). Degradation and longevity of solar photovoltaic modules—An analysis of recent field studies in Ghana. *Energy Science and Engineering*, 1-13. <https://onlinelibrary.wiley.com/doi/full/10.1002/ese3.651>
13. Mensah, M.B., Awudza, J.A., Revaprasadu, N. & O'Brien, P. (2021). Synthesis of CdS and PbS nanoparticles by the thermal decomposition of ethyl xanthate complexes in castor oil using the heat-up technique. *Materials Science in Semiconductor Processing*, 122: 105493.
14. Boadi, N.O., Saah, S.A., Mensah, M.B. and Awudza, J.A. (2020). Aerosol-Assisted Chemical Vapour Deposition of Lead Chalcogenide Thin Films from [Pb ((SePiPr₂)₂N)(S₂CNHexMe)]. *Advances in Materials Science and Engineering*. <https://doi.org/10.1155/2020/8881921>.
15. Boadi, N.O., Saah, S.A. & Awudza, J.A. (2020). Synthesis of a Novel Single-Source Precursor for the Production of Lead Chalcogenide Thin Films. *Journal of Chemistry*. <https://doi.org/10.1155/2020/8349549>.
16. Sanda, M.D.A., Badu, M., Awudza, J.A. & Boadi, N.O. (2020). Development of TiO₂-based dye-sensitized solar cells using natural dyes extracted from some plant-based materials. *Chemistry International*, 7(1): 2021.
17. Boadi, N.O., Saah, S.A., Helliwell, M. & Awudza, J.A. (2019). Hot-Injection Synthesis of PbE (E=S, Se) Nanoparticles from Dichalcogenoimidophosphinato Lead (II) Complexes. *ChemistrySelect*, 4(47): 13908-13911.
18. Saah, S.A., Khan, M.D., Awudza, J.A., Revaprasadu, N. & O'Brien, P. (2019). A Facile Green Synthesis of Ultranarrow PbS Nanorods. *Journal of Inorganic and Organometallic Polymers and Materials*, 29(6): 2274-2281.
19. Seidu-Makinca, M., Saah, S.A., Boadi, N.O., Badu, M., Mensah, M.B. & Awudza, J.A.M. (2019). Characterization of latex from trees in the Bobiri forest of Ghana. *Current Science*, 5(3): 40–47.

20. Nnuro, W.A., Amankwaah, D., Awudza, J.A.M. & Afful, S. (2020) Assessment of Heavy Metals and Proximate Analysis of Cocoa Beans from Selected Cocoa Growing Areas in Ghana. *International Research Journal of Pure & Applied Chemistry*, 21(14): 36-46.
21. Abagale, S.A., Twumasi, S.K., & Awudza, J. (2020). Chemical Analyses of *Parkia biglobosa* Fruit Husk Extract and Lateritic Soil Used in Ethnobotanical Preparation of Mud Wall Plaster in Some West African Countries. *AASCIT Journal of Chemistry*, 6(2): 14-19.
22. Obirikorang, K.A., Ofori, A.G.A., & Gyampoh, B.A. (2020). Dominance hierarchies within different size groupings of Nile tilapia (*Oreochromis niloticus*) and effects on growth and physiological responses. *African Zoology*, 55(3): 201-212. <https://doi.org/10.1080/15627020.2020.1756909>
23. Gyampoh, B.A., Atitsogbui, G., & Obirikorang, K.A. (2020). Understanding the negelected Keta Lagoon fishery. *Journal of Fisheries and Coastal Management*, 2. [10.5455/jfcom.20190902060103](https://doi.org/10.5455/jfcom.20190902060103)
24. Obirikorang K.A., Gyamfi, S., Goode, M.E., Amisah, S., Edziyie, R.E., Quagrainie, K., Egna, H., & Frimpong, E.A. (2020). Effect of soybean meal diets on the growth performance, ammonia excretion rates, gut histology and feed cost of Nile tilapia (*Oreochromis niloticus*) fry. *Aquaculture Research*, 51(9): 3520-3532. <https://doi.org/10.1111/are.14689>
25. Akuffo, A.S, Quagrainie, K.K., & Obirikorang, K.A. (2020). Analysis of the determinants of fish consumption by households in Ghana. *Aquaculture Economics & Management*, 24(3): 294-309. <https://doi.org/10.1080/13657305.2020.1723734>
26. Duodu, C.P., Adjei-Boateng, D., Amponsah, A.K., Andrews, P., & Obirikorang, K.A. (2020). The effect of plant protein-based diets on apparent nutrient digestibility, growth response, egesta quantity, postprandial ammonia excretion rate and serum quality of Nile tilapia. *Aquaculture Research*, 52(3): 1152-1161. <https://doi.org/10.1111/are.14464>
27. Obirikorang, K.A., Agbo, N.W., Obirikorang, C., Adjei-Boateng, D., Ahiave, S.E., & Skov, P.V. (2019). Effects of water flow rates on growth and welfare of Nile tilapia (*Oreochromis niloticus*) reared in a recirculating aquaculture system. *Aquaculture International*, 27: 449–462. <https://doi.org/10.1007/s10499-019-00342-0>
28. Madkour, H.A., Osman, M.R., Mansour, A.M., El-Taher, A., Obirikorang, K.A., Hussein, H.N.M. (2019). Nature and geochemistry of surface marine

- sediments of Abu-Soma Bay along the Egyptian Red Sea Coast. *Journal of Applied Geology and Geophysics*, 7(6): 32-42.
29. Quagraine, K.A., Ramde, E.W., Fiagbe, Y.A.K., & Quansah, D.A. (2020). Evaluation of time lag and decrement factor of walls in a hot humid tropical climate. *Thermal Science and Engineering Progress*, 100758. <https://doi.org/10.1016/j.tsep.2020.100758>.
 30. Ramde, E.W., Tchao, E.T., Fiagbe, Y.A.K., Kponyo, J.J., & Atuah, A.S. (2020). Pilot Low-Cost Concentrating Solar Power Systems Deployment in Sub-Saharan Africa: A Case Study of Implementation Challenges. *Sustainability*, 12: 6223.
 31. Adu, T.F., Anto, E.K., Ramde, E., & Mensah, L.D. (2020). Determination of Optimum Tilt Angle for Rooftop Solar Photovoltaic System Installation for KikuKinderhaus in Kumasi. *International Journal of Energy and Environmental Science*, 5(1): 7-13. doi: 10.11648/j.ijees.20200501.12
 32. Abdul-Ganiyu, S., Quansah, D.A., Ramde, E.W., Seidu, R., & Adaramola, M.S. (2020). Investigation of Solar Photovoltaic-Thermal (PVT) and Solar Photovoltaic (PV) Performance: A Case Study in Ghana. *Energies*, 13: 2701.
 33. Nuagah, M. B., Boakye, P., Oduro-Kwarteng, S., & Sokama-Neuyam, Y. A. (2020). Valorization of faecal and sewage sludge via pyrolysis for application as crop organic fertilizer. *Journal of Analytical and Applied Pyrolysis*, 151: 104903. <https://doi.org/10.1016/j.jaap.2020.104903>
 34. Sokama-Neuyam, Y. A., Boakye, P., Aggrey, W. N., Obeng, N. O., Adu-Boahene, F., Woo, S. H., & Ursin, J. R. (2020). Theoretical Modeling of the Impact of Salt Precipitation on CO₂ Storage Potential in Fractured Saline Reservoirs. *ACS omega*, 5(24): 14776-14785. <https://doi.org/10.1021/acsomega.0c01687>
 35. Mensah, M., Asiedu, N. Y., Neba, F. A., Amaniampong, P. N., Boakye, P., & Addo, A. (2020). Modeling, optimization and kinetic analysis of the hydrolysis process of waste cocoa pod husk to reducing sugars. *SN Appl. Sci.* 2: 1160. <https://doi.org/10.1007/s42452-020-2966-y>
 36. Sokama-Neuyam, Y.A., Adu-Boahene, F., Boakye, P., Aggrey, W.N. & Ursin, J.R. (2020). Theoretical modeling of the effect of temperature on CO₂ injectivity in deep saline formations. *Greenhouse Gases: Science and Technology*. <http://onlinelibrary.wiley.com/doi/abs/10.1002/ghg.1951>
 37. Dzebre, D.E.K., Adaramola, M.S. (2019). Impact of Selected Options in the Weather Research and Forecasting Model on Surface Wind Hindcasts in Coastal Ghana. *Energies*, 12: 3670. <https://doi.org/10.3390/en12193670>
 38. Dzebre, D.E.K., & Adaramola, M.S. (2020). A preliminary sensitivity study of Planetary Boundary Layer parameterisation schemes in the weather research

and forecasting model to surface winds in coastal Ghana. *Renewable Energy*, 146: 66-86. <https://doi.org/10.1016/j.renene.2019.06.133>

39. Yeboah, O. E., Opoku, R., Sunu, K.A., & Adaramola, S.M. (2020). Development of High-Performance Airfoils for application in small Wind Turbine Power Generation. *Journal of Energy*. <https://doi.org/10.1155/2020/9710189>
40. Opoku, R., Adjei, A.E., Obeng, Y.G., Severi, L., & Bawa, A.R. (2020). Electricity Access, Community Healthcare Service Delivery, and Rural Development Nexus: Analysis of 3 Solar Electrified CHPS in Off-Grid Communities in Ghana. *Journal of Energy*. <https://doi.org/10.1155/2020/9702505>
41. Opoku, R., Adjei, A.E., Ahadzie, K.D., & Agyarko, A K. (2020). Energy efficiency, solar energy and cost saving opportunities in public tertiary institutions in developing countries: The case of KNUST, Ghana. *Alexandria Engineering Journal*. <https://doi.org/10.1016/j.aej.2020.01.011>
42. Opoku, R., Obeng, Y.G., Adjei, A.E., Davis, F., & Akuffo, O.F. (2020). Integrated System in reducing redundancy and promoting residential renewable energy in countries without net-metering: A case study of SHS in Ghana. *Renewable Energy*. <https://doi.org/10.1016/j.renene.2020.03.099>

BOOK CHAPTERS

1. Wongnaa, C.A., Ansong, M., Obirikorang, K.A., Nkrumah, E.E., & Arhin, A.E. (2020). Contribution of Non-Timber Forest Products to Rural and Urban Incomes in Ghana. In: *Rural-Urban Linkages and Sustainable Development: Case Studies from Africa* (Eds. Kapfudzaruwa, F., Kudo, S., Matsuyama, K., Allasiw, D.I.). Publisher: Spears
2. Schertzer, L., Painuly, J.P., Hansen, J.I., Ackom, E., & Kemausuor, F. (2020). High-impact opportunities for energy efficiency: a case study of improved cookstoves in Ghana, pp 148-162. In: *Energy Efficiency in Developing Countries: Policies and Programmes*, 1st Edition. Eds: Suzana Tavares da Silva, Gabriela Prata Dias. Routledge, Taylor and Francis Group. ISBN: 978-0-367-36197-6

CONFERENCE PAPERS/PROCEEDINGS

1. Arthur, J. K., Frimpong, E. A. & Oteng-Adjei J. (2019). Optimization algorithms for solving combined economic emission dispatch: a review. In *proceedings of World Congress on Engineering and Computer Science*, San Francisco, pp. 210-215, October 22-24, 2019.

2. Arthur, J. K., Frimpong, E. A. and Oteng-Adjei, J. (2019). Literature Survey of Recent Advances in the Solution of Combined Economic Emission Dispatch Problem. In Proceedings of IEEE AFRICON, Accra, Ghana, pp. 1-8, September 25-27, 2019. doi: 10.1109/AFRICON46755.2019.9133761.
3. Tala, J.V.S., Ramde, E.W., & Bougeard, D. (2020). Intensification passive des transferts thermiques dans les capteurs solaires plans par manipulation de l'écoulement dans les tubes caloporteurs (Heat transfer enhancement in flat plate solar collectors by flow manipulation) ; 28e Congrès français de thermique, Belfort sur le thème Thermique et Mix Energétique, juin 9-12, 2020. <https://doi.org/10.25855/SFT2020-151>

REGIONAL WATER AND ENVIRONMENTAL SANITATION CENTRE-KUMASI (RWESCK)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. E. A. Ackom, K.A. Adjei, & S.N. Odai, (2020). Spatio-temporal rainfall trend and homogeneity analysis in flood prone area: case study of Odaw river basin-Ghana. SN Applied Sciences, 2: 2141.
2. C. D. Egbi, G. Anornu, E. K. Appiah-Adjei, S. Y. Ganyaglo, & S. B. Dampare, (2019). Evaluation of water quality using hydrochemistry, stable isotopes, and water quality indices in the Lower Volta River Basin of Ghana. Environment, Development and Sustainability, 1-31.-
3. F.Y. Logah, K.A. Adjei, E. Obuobie, C. Gyamfi, & S.N. Odai, (2020). Evaluation and Comparison of Satellite Rainfall Products in the Black Volta Basin. Environmental Processes. <https://doi.org/10.1007/s40710-020-00465-0>
4. A.B.M. Incoom, K.A. Adjei, & S.N. Odai, (2020). Rainfall variabilities and droughts in the Savannah zone of Ghana from 1960-2015. Scientific African, 10: e00571.
5. E.K. Ackom, K.A. Adjei, & S.N. Odai, (2020). Monitoring land-use and land-cover changes due to extensive urbanization in the Odaw River Basin of Accra, Ghana, 1991–2030. Modeling Earth Systems and Environment, 6(2): 1131–1143.
6. B. Appiah, A. Poudyal, D.A. Anum, E.M. Mulogo, & S.N. Odai, (2020). Challenges and facilitators of public engagement with water, sanitation, hygiene and other environmental health issues in Ghana and Uganda: Perspectives of scientists, journalists and the public. Journal of Water Sanitation and Hygiene for Development, 10(1): 16–26.

7. S.A. Ofori, K.A. Adjei, & S.N. Odai, (2020). Ecological vulnerability of the Densu river Basin due to land use change and climate variability. *Cogent Engineering*, 7(1): 1735714.
8. E. Arthur, F.O.K. Anyemedu, C. Gyamfi, K.A. Adjei G.K. Anornu, & S.N. Odai, (2020). Potential for small hydropower development in the Lower Pra River Basin, Ghana. *Journal of Hydrology: Regional Studies*, 32: 100757
9. B.K. Badmos, G.B. Villamor, S.K. Agodzo, S.N. Odai, & O.S. Badmos, (2020). Evaluating the impact of an agricultural land-use change adaptation strategy on household crop production in semi-arid Ghana. *Singapore Journal of Tropical Geography*, <https://doi.org/10.1111/sjtg.12351>
10. J.A. Abungba, D. Khare, S.M. Pingale, K.A. Adjei, C. Gyamfi, & S.N. Odai (2020). Assessment of Hydro-climatic Trends and Variability over the Black Volta Basin in Ghana. *Earth Systems and Environment*. <https://doi.org/10.1007/s41748-020-00171-9>
11. J. Ashaley, G.K. Anornu, A. Awotwi, C. Gyamfi, & M. Anim-Gyampo, (2020). Performance evaluation of Africa CORDEX regional climate models: case of Kpong irrigation scheme, Ghana. *Spatial Information Research*, 28(6): 735–753.
12. R.K. Yankey, G.K. Anornu, E.K. Appiah-Adjei, S.K. Osae, & S.Y. Ganyaglo, (2020). Structural equation modeling and GIS application into non-carcinogenic health risk assessment of the phreatic aquifers of the south-western coastal basin-Ghana. *Modeling Earth Systems and Environment*, 6(4): 2553–2564.
13. A. Gibrilla, J.R. Fianko, S. Ganyaglo, G. Anornu, & N. Zakaria, (2020). Nitrate contamination and source apportionment in surface and groundwater in Ghana using dual isotopes (^{15}N and $^{18}\text{O}-\text{NO}_3$) and a Bayesian isotope mixing model. *Journal of Contaminant Hydrology*, 233: 103658.
14. P.A. Opoku, G.K. Anornu, A. Gibrilla, S.Y. Ganyaglo, & C.D. Egbi, (2020). Spatial distributions and probabilistic risk assessment of exposure to heavy metals in groundwater in a peri-urban settlement: case study of Atonsu-Kumasi, Ghana. *Groundwater for Sustainable Development*, 10: 100327.
15. R.K. Yankey, G.K. Anornu, S.K. Osae, & S.Y. Ganyaglo, (2020). Drastic model application to groundwater vulnerability elucidation for decision making: the case of south western coastal basin, Ghana. *Modeling Earth Systems and Environment*. <https://doi.org/10.1007/s40808-020-01031-1>
16. C.D. Egbi, G.K. Anornu, S.Y. Ganyaglo, S.-L. Li, & S.B. Dampare, (2020). Nitrate contamination of groundwater in the Lower Volta River Basin of Ghana:

Sources and related human health risks. *Ecotoxicology and Environmental Safety*, 191: 110227.

17. O.I. Francis, G.K. Anornu, K.A. Adjei, & E.O. Martin, (2020). Development of water surface area–storage capacity relationship using empirical model for Gurara reservoir, Nigeria. *Modeling Earth Systems and Environment*. <https://doi.org/10.1007/s40808-020-00949-w>
18. N. Zakaria, G. Anornu, D. Adomako, F. Owusu-Nimo, & A. Gibrilla, (2020). Evolution of groundwater hydrogeochemistry and assessment of groundwater quality in the Anayari catchment. *Groundwater for Sustainable Development*. <https://doi.org/10.1016/j.gsd.2020.100489>
19. A. Awotwi, G.K. Anornu, J.A. Quaye-Ballard, T. Annor, E.K. Forkuo, & E. Harris, (2019). Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986–2025. *CATENA*, 182: 104129.
20. S.N. Simiyu, R.M. Kweyu, P. Antwi-Agyei, & K.A. Adjei, (2020). Barriers and opportunities for cleanliness of shared sanitation facilities in low-income settlements in Kenya. *BMC Public Health*, 20(1): 1632
21. P. Antwi-Agyei, B. Dwumfour-Asare, K.A. Adjei, R. Kweyu, & S. Simiyu, (2020). Understanding the barriers and opportunities for effective management of shared sanitation in low-income settlements—the case of Kumasi, Ghana. *International Journal of Environmental Research and Public Health*, 17(12): 1–17.
22. F.O. Adjei, K.A. Adjei, E. Obuobie, & S.N. Odai. (2019). Trends in land use/land cover changes in the Densu River basin and its impact on the Weija reservoirs and the Densu Delta (Sakumo I lagoon) in Ghana. *Geography and regional planning*, 12(4): 76-89.
23. R.A.A. Gyimah, C. Gyamfi, G.K. Anornu, A.Y. Karikari, & F.W. Tsyawo, (2020). Multivariate statistical analysis of water quality of the Densu River, Ghana. *International Journal of River Basin Management*. <https://doi.org/10.1080/15715124.2020.1803337>
24. W. Asare, S. Oduro-Kwarteng, E.A. Donkor, & M.A.D. Rockson (2020). Recovery of municipal solid waste recyclables under different incentive schemes in Tamale, Ghana. *Sustainability*, 12(23): 1–19.
25. M.B. Nuagah, P. Boakye, S. Oduro-Kwarteng, & Y.A. Sokama-Neuyam (2020). Valorization of faecal and sewage sludge via pyrolysis for application as crop organic fertilizer. *Journal of Analytical and Applied Pyrolysis*, 151: 104903.

26. A Sulemana, E.A. Donkor, & S. Oduro-Kwarteng (2020). Efficiency of municipal solid waste collection systems in Ghana. *Journal of Solid Waste Technology and Management*, 46(1): 58–65.
27. D. Sarpong, S. Oduro-Kwarteng, SF Gyasi, R. Buamah, E. Donkor, & E. Awuah, (2019). Biodegradation by composting of municipal organic solid waste into organic fertilizer using the black soldier fly (*Hermetia illucens*) (Diptera: Stratiomyidae) larvae. *International Journal of Recycling of Organic Waste in Agriculture*, 1-10.
28. E.A. Kwarteng, C. Gyamfi, F.O.K. Anyemedu, K.A. Adjei, & G.K. Anornu, (2020). Coupling SWAT and bathymetric data in modelling reservoir catchment hydrology. *Spatial Information Research*. <https://doi.org/10.1007/s41324-020-00337-7>
29. I. Monney, E.A. Donkor, & R. Buamah, (2020). Clean vehicles, polluted waters: empirical estimates of water consumption and pollution loads of the carwash industry. *Heliyon*, 6(5): e03952.
30. A. Sulemana, E.A. Donkor, E.K. Forkuo, I.N.A. Ankrah, & A.M.O. Musah, (2020). Optimized routing of trucks for institutional solid waste collection in Kumasi, Ghana. *Detritus*, 9: 50–58.
31. B. Dwumfour-Asare, K.B. Nyarko, H.M.K. Essandoh, & E. Awuah, (2020). Domestic greywater flows and pollutant loads: A neighbourhood study within a university campus in Ghana. *Scientific African*, 9: e00489.
32. I.K. Makafui, H.M.K. Essandoh, N.Y. Asiedu, & S. Oduro-Kwarteng, (2020). Evaluation of selected activated carbon filters and sand media for nutrient and pathogen removal from an anaerobic baffled reactor effluent system. *Scientific African*, 9: e00523.
33. K.B. Otabil, S.F. Gyasi, E. Awuah, J.A. Kessie, & H.D.F.H. Schallig, (2020). Biting rates and relative abundance of *Simulium* flies under different climatic conditions in an onchocerciasis endemic community in Ghana. *Parasites and Vectors*, 13(1): 229.
34. C. Gyamfi, K. Amaning-Adjei, G.K. Anornu, J.M. Ndambuki, & S.N Odai, (2019). Evolutional characteristics of hydro-meteorological drought studied using standardized indices and wavelet analysis. *Modeling Earth Systems and Environment*, 5(2): 455-469.
35. P.A. Obeng, S. Oduro-Kwarteng, B. Keraita, H. Bregnhøj, R.C. Abaidoo, E. Awuah, & F. Konradsen, (2019). Redesigning the ventilated improved pit latrine for use in built-up low-income settings. *Journal of Water, Sanitation and Hygiene for Development*, 9(2): 374-379.

36. S.F. Gyasi, A.A. Boateng, E. Awuah, & E.O. Antwi, (2019). Ellucidating the incidence and the prevalence of Schistosomiasis spp infection in riparian communities of the Bui dam. *Journal of Parasitic Diseases*, 43(2): 276-288.
37. E. Appiah-Effah, G.A. Duku, B. Dwumfour-Asare, I. Manu, & K.B. Nyarko, (2020). Toilet chemical additives and their effect on faecal sludge characteristics. *Heliyon*, 6(9): e04998.
38. J. Mantey, K.B. Nyarko, F. Owusu-Nimo, W.E. Akatu, & E. Appiah-Effah, (2020). Influence of illegal artisanal small-scale gold mining operations (galamsey) on oil and grease (O/G) concentrations in three hotspot assemblies of Western Region, Ghana. *Environmental Pollution*, 263: 114251.
39. J. Mantey, K.B. Nyarko, F. Owusu-Nimo, W.E. Akatu, & E. Appiah-Effah, (2020). Mercury contamination of soil and water media from different illegal artisanal small-scale gold mining operations (galamsey). *Heliyon*, 6(6): e04312.
40. G.A. Duku, E. Appiah-Effah, K.B. Nyarko, & B. Dwumfour-Asare, (2020). Early live-prototype testing of a low-cost latrine technology for rural and peri-urban communities: The case of a modified pour-flush latrine. *Scientific African*, 8: e00338.
41. C.Y. Oduro, E. Appiah-Effah, & K.B. Nyarko, (2020). Assessing policymaker and taxpayer attitudes towards public finance for urban sanitation: the case of sanitation surcharges in two Ghanaian municipalities. *International Journal of Urban Sustainable Development*. <https://doi.org/10.1080/19463138.2020.1827410>

WEST AFRICA SCIENCE SERVICE CENTRE ON CLIMATE CHANGE AND ADAPTED LAND USE (WASSCAL)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Aabeyir, R., Adu-Bredu, S., Agyare, W.A. and Weir, M.J.C. (2020). Allometric models for estimating aboveground biomass in the tropical woodlands of Ghana, West Africa. *Forest Ecosystems*, 7(41): 1-23. <https://doi.org/10.1186/s40663-020-00250-3>
3. Asare, Y.M., Forkuo, E.K., Forkuor, G. and Thiel, M. (2020). Evaluation of gap-filling methods for Landsat 7 ETM+ SLC-off image for LULC classification in a heterogeneous landscape of West Africa. *International Journal of Remote Sensing*, 41(7): 2544-2564.
4. Okafor, G.C., Annor, T., Odai, S.N. and Larbi, I. (2020). Land Use Landcover Change Monitoring and Projection in the Dano Catchment, Southwest

Burkina Faso. *International Journal of Advanced Remote Sensing and GIS*, 9(1): 3185-3204. <https://doi.org/10.23953/cloud.ijarsg.445>

5. Neya, T., Abunyewa, A.A., Neya, O., Zoungrana, B.J., Dimobe, K., Tiendrebeogo, H. and Magistro, J. (2020). Carbon Sequestration Potential and Marketable Carbon Value of Smallholder Agroforestry Parklands Across Climatic Zones of Burkina Faso: Current Status and Way Forward for REDD+ Implementation. *Environmental Management*, 65(2): 203-211.
6. Chabi, A., Lautenbach, S., Tondoh, J.E., Orekan, V.O.A., Adu-Bredu, S., Kyei-Baffour, N., Mama, V.J. and Fonweban, J. (2019). The relevance of using in situ carbon and nitrogen data and satellite images to assess aboveground carbon and nitrogen stocks for supporting national REDD+ programmes in Africa. *Carbon balance and management*, 14(1): 12.
9. Koglo, Y.S., Gaiser, T., Agyare, W. A., Sogbedji, J. M. and Kouami, K. (2019). Implications of some major human-induced activities on forest cover using extended change matrix quantity and intensity analysis based on historical Landsat data from the Kloto District, Togo. *Ecological Indicators*, 96: 628-634.
10. Neya, T., Abunyewa, A.A., Neya, O. and Callo-Concha, D. (2019). Trade-off of Tree Conservation and Crop Production on Agroforestry Parklands in Burkina Faso. *Journal of Agricultural Studies*, 7(1): 41-54.
11. Thiam, S., Villamor, G.B., Kyei-Baffour, N. and Matty, F. (2019). Soil salinity assessment and coping strategies in the coastal agricultural landscape in Djilor district, Senegal. *Land Use Policy*, 88: 104191.
12. Amadou, M.L., Villamor, G.B. and Kyei-Baffour, N. (2018). Simulating agricultural land-use adaptation decisions to climate change: An empirical agent-based modelling in northern Ghana. *Agricultural Systems*, 166: 196-209.
13. Badmos, B.K., Adenle, A.A., Agodzo, S.K., Villamor, G.B., Asare-Kyei, D.K., Amadou, L.M. and Odai, S.N. (2018). Micro-level social vulnerability assessment towards climate change adaptation in semi-arid Ghana, West Africa. *Environment, Development and Sustainability*, 20(5): 2261-2279.
14. Villamor, B.B.K., Agodzo, S.K G.B., Odai, S.N. (2018). Local level impacts of climatic and non-climatic factors on agriculture and agricultural landuse dynamic of in rural northern Ghana. *Singapore Journal of Tropical Geograph*, 39(2): 178-191.
17. Koglo, Y.S., Agyare, W.A., Diwediga, B., Sogbedji, J.M., Adden, A.K. and Gaiser, T. (2018). Remote sensing based and participatory Analysis of land degradation and potential land conservation measures in Kloto District

- (Togo, West Africa). *Soil Systems*, 2(3): 49. <https://doi.org/10.3390/soilsystems2030049>
18. Neya, T., Neya, O. and Abunyewa, A.A. (2018). Agroforestry parkland profiles in three climatic zones of Burkina Faso. *International Journal of Biological and Chemical Sciences*, 12(5): 2119-2131.
 19. Nyamekye, C., Thiel, M., Schönbrodt-Stitt, S., Zoungrana, B. J-B. and Amekudzi, L.K. (2018). Soil and Water Conservation in Burkina Faso, West Africa. *Sustainability*, 10: 3182. doi:10.3390/su10093182
 20. Okafor, G. and Ogbu, K. (2018). Assessment of the impact of climate change on the freshwater availability of Kaduna River basin, Nigeria. *Journal of Water and Land Development*, 38: 105-114. <https://doi.org/10.2478/jwld-2018-0047>.
 21. Thiombiano, B.A., Ouédraogo D., Le, Q.B. and Odai, S.N. (2018). Role of climate change awareness in sustainable soil nutrient management by smallholder farms in Burkina Faso. *African journal of agricultural research*, 13(06): 294-301. DOI: <https://doi.org/10.5897/AJAR2017.12939>
 23. Zoungrana, B. J-B., Conrad, C., Thiel, M., Amekudzi, L.K. and Da, E.D. (2018). MODIS NDVI trends and fractional land cover change for improved assessments of vegetation degradation in Burkina Faso, West Africa. *Journal of arid environments*, 153: 66–75.

TECHNICAL REPORTS

1. Dessakegn, B., Diwediga, B. and Zucca, C. (2019). Participatory selection of context-specific soil and water conservation practices for northern Nigeria. Technical Report. International Center for Agricultural Research in Dry Areas (ICARDA). Rabat, Morocco, 24 pp. May 2019
2. Diwediga, B., Dessalegn, B. and Zucca, C. (2019). Participatory selection of options of soil and water conservation practices and water harvesting systems, and site demonstration of some options in the savannah belt of northern Nigeria. Technical Report. International Center for Agricultural Research in Dry Areas (ICARDA). Rabat, Morocco, 97 pp. January 2019.
3. Diwediga, B., Dessalegn, B. and Zucca, C. (2018). Towards identifying context-specific soil and water conservation practices and water harvesting systems for the savannah belt of northern Nigeria: A Matrix of Options. Technical Report. International Center for Agricultural Research in Dry Areas (ICARDA). Rabat, Morocco, 90 pp. December 2018

4. Diwediga, B. and Zucca, C. (2018). Participatory Survey on Soil and Water Conservation Practices and Water Harvesting Systems in the Savannah Belt of Northern Nigeria. Technical Report. International Center for Agricultural Research in Dry Areas (ICARDA). Rabat, Morocco, 54 pp. June 2018

DEPARTMENT CHEMICAL ENGINEERING

ACADEMIC STAFF

Senior Lecturers:

B. Afoley	PhD (US)
E. G. Ankudey	PhD (US)
N. Y. Asiedu	PhD (South Africa)
L. Darkwah	PhD (UK)
***Z. Ga'l Momade	MSc (Hungary)

Lecturers:

*J. C. Ahiekpor	PhD (Nigeria)
D. A. Anang	PhD (South Korea)
*B. Asante	PhD (Canada)
E. K. Baah-Ennumh,	MSc (Kumasi), MSc (Germany)
M. F. Baidoo	PhD (Norway)
P. Boakye	PhD (South Korea)
E. Kwao-Boateng	MSc (Russia)
G. Ohemeng-Boahen	PhD (South Korea)
** J. K. M. Mensah	MEng (South Korea)
A. Ntiamoah	PhD (Australia)
M. A. D. Rockson	PhD (Kumasi)

Assistant Research Fellow:

E. Awarikabey	MPhil (Kumasi)
---------------	----------------

**Part time Lecturer*

***Study Leave*

****Post retirement contract*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Ali B., Muhammed R., Anang D. A., Cho M. K., Kim J. Y. & Nam, K. Y. (2020) Ge-doped $\text{Li}_4\text{Ti}_5\text{-xGe}_x\text{O}_{12}$ ($x = 0.05$) as a fast-charging, long-life bi-functional anode material for lithium-and sodium-ion batteries. *Ceramics International*, 46: 16556 – 16563. <https://doi.org/10.1016/j.ceramint.2020.03.223>.
2. Nuagah, M. B., Boakye, P., Oduro-Kwarteng, S. & Sokama-Neuyam, Y. A. (2020). Valorization of faecal and sewage sludge via pyrolysis for application as crop organic fertilizer. *Journal of Analytical and Applied Pyrolysis*, 151: 104903. <https://doi.org/10.1016/j.jaap.2020.104903>
3. Sokama-Neuyam, Y. A., Boakye, P., Aggrey, W. N., Obeng, N. O., Adu-Boahene, F., Woo, S. H. & Ursin, J. R. (2020). Theoretical Modeling of the Impact of Salt Precipitation on CO₂ Storage Potential in Fractured Saline Reservoirs. *ACS omega*, 5(24): 14776-14785. <https://doi.org/10.1021/acsomega.0c01687>
4. Mensah, M., Asiedu, N. Y., Neba, F. A., Amaniampong, P. N., Boakye, P. & Addo, A. (2020). Modeling, optimization and kinetic analysis of the hydrolysis process of waste cocoa pod husk to reducing sugars. *SN Appl. Sci.* 2: 1160. <https://doi.org/10.1007/s42452-020-2966-y>
5. Sokama-Neuyam, Y.A., Adu-Boahene, F., Boakye, P., Aggrey, W.N. & Ursin, J.R. (2020). Theoretical modeling of the effect of temperature on CO₂ injectivity in deep saline formations. *Greenhouse Gases: Science and Technology*. <http://onlinelibrary.wiley.com/doi/abs/10.1002/ghg.1951>

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

CENTRE FOR CULTURAL AND AFRICAN STUDIES (CeCAST)

ADJUNCT RESEARCH FELLOWS

Associate Professors:

J. E. T. Kuwornu-Adjaotor	PhD (Kumasi), MTh (Accra), BD, Dip, Dip (Kumasi), Dip (Winneba)
K.O. Akuoko	PhD (Legon), MA (UK), BA (Kumasi), Dip (Accra)

Senior Lecturers:

G.M. Bob-Milliar	PhD (Legon), BA (Kumasi)
D. Sakyi	PhD (Italy), MA (Belgium), BA (Kumasi)
D.O. Appiah	PhD (Kumasi), MPhil, BA (Legon), MSc (Sweden)

Lecturers:

J.B. Forkuor	PhD (Kumasi), MA (UK), BA (Kumasi)
J.R.K. Owusu Kyei	PhD (Poland), MA, BA (Italy), MA (UK)
J. O. Adjei#	MPhil, B.Edu

Research Fellows

M. Ibrahim	PhD (Germany), MSc (South Africa), B.Ed (Nigeria)
A. A. Aidoo#	MPhil, BA
H. K. Adesua#	MPhil, B.Edu

Assistant Research Fellows:

A. Gyasi-Mensah	MPhil, BA (Legon)
-----------------	-------------------

Resident Scholar

D. Amponsah

#Part-time

ARTICLES PUBLISHED IN REFERRED JOURNALS

1. Bob-Milliar, G. M. and Nyaaba, A. Y. (2020). Political Transitions and Commissions of Inquiry: The Politicisation of Accountability in Ghana. *Third World Quarterly*, 41(10): 1758-1775.
2. Bob-Milliar, G. M. (2020). Introduction: Methodologies for Researching Africa. *African Affairs*, DOI: <https://doi.org/10.1093/afraf/adaa011>
3. Bob-Milliar, G. M. & Green, T. (2019). Introduction: Colonial Economic History in West Africa: The Gold Coast and Gambia in Comparative Perspective. *African Economic History*, 47 (2): 1-11.
4. Forkuor, J. B., Buari, M. A. and Aheto, C. K. A. (2020) Breaking barriers: The experiences of women in male dominated informal sector occupations in urban Ghana. *Gender Issues*, 37(1): 25-43. <https://doi.org/10.1007/s12147-019-09231-5>
5. Haleegoah J., Akuoko K. O., Dwumah P., Amoako, M. K., Forkuor, J. B., Frimpong, B. N., Owusu, A. B., Brobbey, L. (2020) Consumer Perceptions of Street-Vended Local Foods in Urban Ghana. *Food Sci Nutr Res*, 3(1): 1-10.
6. Forkuor, J. B., Odongo A. D. and Dekie, M. K. (2020). Caring for People with Intellectual Disability: Experiences. *Social Sciences*, 9(3): 67-76. doi: 10.11648/j.ss.20200903.12
7. Forkuor, J.B., Amarteifio, J., Attoh, D. O. and Buari, M. A. (2019). Students' perception of cheating and the best time to cheat during examinations. *The Urban Review*, 51(3): 424-443. <https://doi.org/10.1007/s11256-018-0491-8>
8. Forkuor, J.B., Ofori-Dua, K., Forkuor, D. and Obeng, B. (2019). Culturally sensitive social work practice: Lessons from social work practitioners and educators in Ghana. *Qualitative Social Work*, 18(5): 852-867 DOI: 10.1177/1473325018766712.
9. Salihs, S. A., Forkuor, J. B. and Boamah, V. E. (2019). Post birth challenges among working mothers in a higher educational institute in Ghana: Implications for occupational competitiveness of working mothers. *International Journal of Science Studies*, 7(6): 123-132.
10. Kuwornu-Adjaottor, J. E. T. (2020). A Critical Translation of Matthew 6:12 in the Dangme Bible. *Journal for the Study of the New Testament in Southern Africa*, 54(1): 67-86.
11. Kuwornu-Adjaottor, J. E. T. (2019). A Critical Study of the Translation of Mark 1:12 in the Dangme Translation of the Bible. *Oguaa Journal of Religion and Human Values*, 5(2): 146-164.

12. Yankyera, P., J. E. T. Kuwornu-Adjaottor, E. K. E. Antwi and F. Wiafe. (2020). The Church as a Spiritual and Social Being: A Holistic Approach to Ministry in the Contemporary Ghanaian Society. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 194-200.
13. Yankyera P., J. E. T. Kuwornu-Adjaottor, E. K. E. Antwi and F. Wiafe. (2020). A Historical-Critical and Morpho-Synthatic Interpretation of Luke 4:18-19. *E-Journal of Religious and Theological Studies*, 6(6): 325-333.
14. Asamoah, E. F. and J. E. T. Kuwornu-Adjaottor. (2020). A Critical Study of the Designation of Chapter as Ti by Asante-Twi Bible Readers. *E-Journal of Humanities, Arts and Social Sciences*, 1(6): 220-227. DOI:10.383159/ehass.2020103.
15. Kuwornu-Adjaottor, J. E. T., D. A. Aidoo and M. Nartey. (2019). A Comparative Study of metanoeite in Matthew 3:2 in the Greek New Testament, Ga, Asante-Twi and Fanti Translations. *American Journal of Humanities and Social Sciences*, 3(12): 42-48.
16. Kuwornu-Adjaottor, J. E. T. and P. Yankyera. (2019). A Study of charismata hamatoon [Gifts of Healing] in 1 Corinthians 12:9: Implications for Present Day Christian Ministry. *American Journal of Biblical Theology*, 20(9): 1-15.
17. Korsah L.A. and J. E. T. Kuwornu-Adjaottor. (2019). The Akan experience of God Through the Eyes of the Fanti from Oguaa. *Arts and Humanities Open Access Journal*, 3(6): 280-283.
18. Kuwornu-Adjaottor, J. E. T. and M. Nartey. (2019). Following Jesus and Burying the Dead in Ghana: A Study of Matthew 8:21-22 in the Dangme translations of the Bible. *International Journal of Humanities and Social Science Research*, 5(6): 81-85.
19. Fiagbor, E. T., J. E. T. Kuwornu-Adjaottor, and M. Nartey. (2019). The Exodus of a West African people: Dangme in Israel's History. *Journal of Mother-Tongue Biblical Hermeneutics and Theology*, 1(2): 25-43.
20. Kuwornu-Adjaottor, J. E. T., G. Appiah and M. Nartey. (2019). Semantically Ambiguous: An Overview of some Akan and Dangme Riddles. *Journal of Arts and Humanities*, 8(10): 60-72.
21. Kuwornu-Adjaottor, J. E. T., P. Yakyera and G. Tabi. (2019). A Study of Charismata Hamatoon (Gifts of Healings) in 1Corinthians 12:9: Implications for Present Day Christian Ministry. *American Journal of Biblical Theology*, 29(9): 1-15.

22. Razak, M. G., Peprah, P. and Appiah, D.O. (2020). Association of food insecurity with psychological disorders: Results of a population-based study among older people in Ghana. *Journal of Affective Disorders*, 270: 75–82.
23. Appiah, D.O. (2019). Climate Policy Research uptake dynamics for Sustainable Agricultural development in Sub-Saharan Africa. *GeoJournal*, pp. 1-13.
24. Abass, K., Appiah, D.O. and Afriyie, K. (2019). Does green space matter? Public knowledge and attitude towards urban greenery in Ghana. *Urban Forestry & Urban Greening*, 46: 126-462.
25. Eshun, G. Tichaawa, T.M. and Appiah, D.O. (2019). Towards a sustainable coastal tourism development in Ghana. *African Journal of Hospitality and Leisure*, 8(4): 1-18.
26. Boafo, J., Appiah, D.O. and Tindan P.D. (2019). Drivers of export-led agriculture in Ghana: The case of emerging cashew production in Ghana's Brong Ahafo Region. *Australasian Review of African Studies*, 40(1): 31-5
27. Eshun, G., Tichaawa, T.M. and Appiah, D.O. (2019). Towards a sustainable coastal tourism development in Ghana. *African Journal of Hospitality, Tourism and Leisure*, 8(4): 1-18.
28. Appiah, D.O. and Obeku K-H. (2019). Analysis of temperature and rainfall trends as proxy for seasonal climatic variability in South-Central Ghana. *Climate Change*, 5(19): 131-140.
29. Segbefia, A.Y., Honlah E. and Appiah, D.O. (2019). Effects of water hyacinth invasion on sustainability of fishing livelihoods along the River Tano and Abby-Tano Lagoon, Ghana, *Cogent Food & Agriculture*, 5: 1654649.
30. Honla, E., Segbefia, A.Y., Appiah, D.O. and Mensah, M. (2019). Effect of water hyacinth invasion on smallholder farming along River Tano and Tano lagoon, Ghana. *Cogent Food & Agriculture*, 5: 1-13.
31. Appiah, D.O., Abalo E.M. and Eshun, G. (2019). Arable and forest land user rent in a peri-urban district, Ghana. *GeoJournal*, 74(4): 1-12.
32. Honlah, E., Appiah, D.O. Segbefia, A.Y. (2019). Coping Strategies to Water Hyacinth Invasion Among Riparian Communities in Ghana. *American Journal of Environment and Sustainable Development*, 4(1): 12-25.
33. Guodaar, L., Asante, F., Eshun, G., Abass, K., Afriyie, K., Appiah, D.O., Gyasi R. M., Atampugre, G. Addai, P. and Kpenekuu, F. (2019). How do climate change adaptation strategies result in unintended maladaptive outcomes? Perspectives of tomato farmers. *International Journal of Vegetable Science*, pp.1-17

34. Appiah, D.O and Kyeremeh, E. (2019). Poverty Remedies from the Forest; A Review of Forest Resource Utilization in Ghana. *Advances in Environmental Stds.*, 2(2): 122-131.
35. Appiah, D.O. and Eshun, G., Samar, B.S (2019). Analysis of Multiple Factors of Forest Cover Change in a Peri-urban District in Ghana. *American Journal of Environment and Sustainable Development*, 4(2): 95-100.
36. Egyir, J., Sakyi, D. and Baidoo, S. T. (2020). How Does Capital Flows Affect the impact of Trade on Economic Growth in Africa? *The Journal of International Trade & Economic Development*, 29(3): 353-372. <https://doi.org/10.1080/09638199.2019.1692365>.
37. Baidoo, S. T., Sakyi, D., and Aidoo, J. B. (2020). Does Gender Matter in Credit Denial Among Small and Medium Scale Enterprises in Ghana? *International Journal of Entrepreneurship and Small Business*, 39(3): 339-362. <https://doi.org/10.1504/IJESB.2020.104980>.
38. Sakyi, D., Appiah, C. K., Ayesu, K. E., Immurana, M. and Baidoo, T. S. (2020), A terminal level analysis of service quality at Nigerian seaports, *Journal of Shipping and Trade*, 5: 17. <https://doi.org/10.1186/s41072-020-00069-9>.
39. Sakyi, D. (2020), A Comparative Analysis of Service Quality among ECOWAS Seaports, *Transportation Research Interdisciplinary Perspective*, 6: 100152. <https://doi.org/10.1016/j.trip.2020.100152>.
40. Sakyi, D. and Afesorbor, S. K. (2019). The Effects of Trade Facilitation on Trade Performance in Africa, *Journal of African Trade*, 6(1-2): 1-15. <https://doi.org/10.2991/jat.k.191129.001>.

BOOKS

1. Kuwornu-Adjaottor, J. E. T. (2020). *New Testament Theology for College Students and Pastors*. Accra: Noyam Publishers. ISBN 978-9988-53-387-8. 70 pp.
2. Kuwornu-Adjaottor, J. E. T. (2020). *A Background to the New Testament for College Students and Pastors*. Accra: Noyam Publishers. ISBN 978-9988-53-626-8. 131 pp.

CHAPTER IN BOOKS

1. Bob-Milliar, G. M. (2020). Ghana: Recent History. In: Iain Frame (ed.), *Africa South of the Sahara 2021*, 50th Edition. London: Routledge. ISBN 9780367440466, 545 – 550.

Lecturers:

F. D. Azumah	PhD, PG.Dip (UK), BA (Kumasi), MGSAA
N. Gyasi-Boadu	MA (UK), BA (Legon), MGASW
V. DePaul Kanwetuu	MA, BA (Kumasi), Dip (Benin), Cert. 'A' (Somanya), MGSAA
J. B. Forkuor	PhD (Kumasi), MA (UK), BA (Kumasi), MGASW
E. Asamoah	MPhil, BA (Legon), MPhil (Norway), MGASW
A. A. Saah	PhD (US), MEd, CEMPA (Kumasi), MA, BA (Legon), Dip (Winneba), Dip (Cape Coast), FBILD (UK), MIAENG (China), MGASW
E. N. M. Koomson	PhD, MSW (US), BSc (Legon)
J. R. K. Owusu Kyei	PhD (Poland), MA, BA (Italy), MA (UK)
H. B Aseidu	PhD (New Zealand), MPhil (UCC), PG.Dip, ORG. DEV, PGCE (Cape Coast), BA (Accra)
S. C. Y. Appiah	PhD (Nigeria), MPhil (Kumasi), BA, Dip (Kumasi)
M. S. Boampong	PhD, MPhil, BA (Accra)

Assistant Lecturer:

M. N. Musah	MSW (US), BA (Kumasi), MGASW
-------------	------------------------------

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Dapaah, J. M. and Ahenkan, V. (2020). Social determinants of modern contraceptive use among migrant female head porters (Kayayees) in Asokore-Mampong Municipality of Ashanti Region, Ghana. *International Journal of Humanities of Humanities & Social Studies*, 8(5): 367-372.
2. Ansong D, Osei FA, Owusu SK, Nyanor I, Bonney J, Enimil A, Laryea DO, Dapaah J. M, Agyei-Baffour P, Mensah NK, Osei-Peprah I, Owusu AK, Addo-Yobo EOD, Osei-Akoto A, Owusu OA, Appiah SCY, Ampiah V, Amuzu EX. (2020). Educating caregivers to recognize early clinical signs of pneumonia in children less than 2 years in Ghana: Proof of concept. *South African Journal of Child Health*, 14(2): 71-72.

3. Owusu Kyei, J.R.K, Koomson-Yalley, E.M. and Dwumah, P. (2020). Transnational political practices and integration of second-generation migrants. *Journal of Ethnic and Migration Studies*, DOI: [10.1080/1369183X.2020.1816812](https://doi.org/10.1080/1369183X.2020.1816812)
4. Abdullah, A., Bentum, H., Dwumah, P., Gyasi-Boadu, N., and Musah, N.M. (2020). Informal Control and Safety Measures of Street Hawkers: Narratives from Costermongers, *Urban Forum*. <https://doi.org/10.1007/s12132-020-09392-7>
5. Abdullah, A., Cudjoe, E. and Manful, E. (2020). Creating a better kinship environment for children in Ghana: Lessons from young people with informal kinship care experience. *Child & Family Social Work*, 25(S1): 207–214. <https://doi.org/10.1111/cfs.12764>
6. Abdullah, A., Manful, E., Cudjoe, E. & Boateng, L. K. (2020). How Did I Know When to Report Physical Neglect? Ghanaian Mothers' Views on Delinquent Child Maintenance. *Practice*, 1-17. DOI: 10.1080/09503153.2020.1730780
7. Manful, E., Abdullah, A. and Cudjoe, E. (2019). Decision-Making on Child Neglect: Ghanaian Social Workers' Views and Experiences. *International Journal on Child Maltreatment: Research, Policy and Practice*. DOI:10.1007/s42448-019-00041-6
8. Manful, E., Umoh, O. and Abdullah, A. (2019). Examining welfare provision for children in an old relic: focusing on those left behind in residential child care homes in Ghana. *Journal of Social Service Research*. <https://doi.org/10.1080/01488376.2019.1670322>
9. Manful, E. and Abdullah, A. (2018). Conceptualisation of child neglect: A Ghanaian practice narrative. *International Social Work*, 1–13. DOI: 10.1177/0020872818810382
10. Manful, E. and Atakora, M. (2018). Work and study: exploring the social actions of undergraduates on a social protection scheme in Ghana. *International Review of Social Research*, 8(1): 109-117. <https://doi.org/10.2478/irsr-2018-0012>
11. Abdullah, A., Cudjoe, E. and Manful, E. (2018). Barriers to childcare in Children's Homes in Ghana: Caregivers' solutions. *Children and Youth Services Review*, 88: 450–456. <https://doi.org/10.1016/j.childyouth.2018.03.045>
12. Manful, E. and Cudjoe, E. (2018). Is kinship failing? Views on informal support by families in contact with social services in Ghana. *Child & Family Social Work*, 23: 617–624. <https://doi.org/10.1111/cfs.12452>
13. Manful, E., Azumah, D. F., Mainoo, O. G., Forkuor, J. B., Gyasi-Boadu, N. and Ofori-Dua, K. (2017). Gender Differences of Psychosocial Implications of

Sexual Abuse: A Survey of Victims in Ghana. *Gender & Behaviour*, 15(3): 9570-9583.

14. Awuviry-Newton, K., Ofori-Dua, K. and Nkansah, J. O. (2020). Attribution of elder neglect: A phenomenological study of older people in Ghana. *Health and Social Care in the Community*. wileyonlinelibrary.com/journal/hsc DOI: 10.1111/hsc.13028
15. Awuviry-Newton, K; Ofori-Dua, K. and Newton, A. Correlates of Hospitalized older adults' personal care provision to people with functional difficulties in Ghana. *Plos One* (Accepted for publication).
16. Ofori-Dua, K., Forkuor, J. B. and Nachinaab, J. O. Finding solace behind bars: Experiences of inmates in Kumasi Central Prison. *Journal of Victimology and Victim Justice VVJ* – 2020-0028. (Accepted for a publication).
17. Azumah, F. D., Amo, D. A., Krampah, S. and Amaniampong, E. (2020). *Strengthening Public Resilience and Border Security Management against Terrorism: A Case Study of Elubo Border in the Western Region of Ghana*. *African Journal of Terrorism and Insurgency Research*, 1(2): 43-62.
18. Azumah, F. D., Nachinaab, J. O., Krampah, S., and Ayim, P. N. (2020). *Determinants of Target Victim Selection: A Case Study of Criminals from Gambaga Prisons*. *Journal of Victimology and Victim Justice*, 1-21.
19. Azumah, F. D., Baah, E., and Nachinaab, J. O. (2020). *Causes and Effects of Illegal Gold Mining (Galamsey) Activities on School Dropout and Residents at the Tutuka Central Circuit in Obuasi Municipality in Ashanti Region, Ghana*. *Journal of Education*, 1-12
20. Forkuor, J. B., Buari, M. A., and Aheto, C. K. A. (2020). Breaking barriers: The experiences of women in male dominated informal sector occupations in urban Ghana. *Gender Issues*, 37(1): 25-43. <https://doi.org/10.1007/s12147-019-09231-5>
21. Haleegoah J., Akuoko K. O., Dwumah P., Amoako, M. K., Forkuor, J. B., Frimpong, B. N., Owusu, A. B., and Brobbey, L. (2020). Consumer Perceptions of Street-Vended Local Foods in Urban Ghana. *Food Sci Nutr Res.*, 3(1): 1-10.
22. Forkuor, J. B., Odongo A. D. and Dekie, M. K. (2020). Caring for People with Intellectual Disability: Experiences. *Social Sciences*, 9(3): 67-76. doi: 10.11648/j.ss.20200903.12.
23. Forkuor, J.B., Amarteifio, J., Attoh, D. O., and Buari, M. A. (2019). Students' perception of cheating and the best time to cheat during examinations. *The Urban Review*, 51(3): 424-443. <https://doi.org/10.1007/s11256-018-0491-8>

24. Gyasi, R. M., Obeng, B., Yeboah, J. Y. (2020). The Impact of food insecurity with hunger on mental distress among community-dwelling older adults. *PLoS One*, 15(3): e0229840.
25. Kanwetuu, V. de P., Asomaning, J., Brenya, B. O. (2020). Should I Ignore the Promotion System and Stay or I Should Quit: An Examination of the Experiences of Teachers with the Promotion Process in the Education Service. *International Journal of Social Science Studies*, 8: 3.
26. Sjaak, V. G., Dapaah, J. M. and Kwansa, B. (2019). Avoided family care, diverted, intimacy: How people with HIV find new kinship in two Ghanaian hospitals. *Africa Today*, 65(3): 31-47.
27. Dapaah, J. M. and Nachinnab, J. O. (2019). Socio-cultural determinants of the utilization of maternal health care services in the Tallensi District in the Upper East Region of Ghana. *Advances in Public Health*, 2019: 1-9.
28. Bettmann, J. E., Prince, K. C., Hardy, C. J., and Dwumah, P. (2019). Measuring Anxiety and Depression in Ghanaian and US College Students. *Journal of Multicultural Counseling and Development*, 47(2): 119-130.
29. Forkuor, J. B., Ofori-Dua, K., Forkuor, D. and Obeng, B. (2019). Culturally sensitive social work practice. Lessons from social practitioners and educators in Ghana. *Qualitative Social Work*. <https://doi.org/10.1177%2F1473325018766712>.
30. Ofori-Dua, K., Nachinaab, O. J. and Nimako, R. (2019). Victims, the forgotten party in the Criminal Justice System: The perception and experiences of crime victims in Kumasi. *Journal of Victimology and Victim Justice*. <https://doi.org/10.1177%2F2516606919885516>
31. Forkuor, J.B., Amarteifio, J., Attoh, D. O. and Buari, M. A. (2019). Students' perception of cheating and the best time to cheat during examinations. *The Urban Review*, 51(3): 424-443. <https://doi.org/10.1007/s11256-018-0491-8>
32. Forkuor, J.B., Ofori-Dua, K., Forkuor, D. and Obeng, B. (2019). Culturally sensitive social work practice: Lessons from social work practitioners and educators in Ghana. *Qualitative Social Work*, 18(5): 852-867. DOI: 10.1177/1473325018766712

BOOK CHAPTER

1. Manful, E. (2020). Leaving No Child Behind in Ghana: Is The Working Child Protected? In: Frimpong-Manso, K. & Mohammed ZayanImoro (eds) *The State of Child Protection in Ghana*. Accra: Participatory Development

DEPARTMENT OF ENGLISH

ACADEMIC STAFF

Senior Lecturers:

E. S. Afreh	PhD (UG), MA (UK), MPhil (Cape Coast), Dip. Ed (Cape Coast), BA (Cape Coast)
P. Arthur	PhD (UK), MA (Kumasi), BA (Cape Coast)
P. Yeboah	PhD (Kumasi), MA (Kumasi), BA (Cape Coast)
C. G. Sanka	PhD (Kumasi), BA (Kumasi)

Lecturers:

F. E Kofigah	MA, BA (Kumasi)
P. Gustafson-Asamoah	MPhil, B.Ed. (Winneba)
O. Y. Akoto	PhD (Cape Coast), MPhil (Cape Coast), BA (Cape Coast)
E. ResCue	PhD (UK), MA (UK), BA (Legon)
*J.P Kuutiero	MPhil, BA (Legon)
*J. Aning	PhD (Legon), MA (Kumasi), B.Ed. (Winneba)
*P. A. Darteh	MA (Kumasi), BA (Kumasi), Dip. (Winneba)

Assistant Lecturers:

H. A. Kyeremeh	MPhil (Kumasi), BA (Legon)
T. O. Kwarteng	MPhil, BA (Legon)
C. A. Issaka	MPhil, BA (Kumasi)
P. Oppong	MPhil, BA (Kumasi)
J. G. Manu	MPhil, BA (Kumasi)

Part-Time Lecturers:

Dr. Kofi Sarfo-Adu PhD (Cape Coast), MPhil (Cape Coast), BA (Cape Coast), Dip. (Winneba)

F. B. Appiah MPhil, BA (Cape Coast)

**Retired lecturers on part-time*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Akoto, O. Y. (2019). Metadiscourse use in English Language and Sociology master's theses literature review chapters. *ESP World*, 57(21): 1-31
2. Akoto, O. Y. (2020). Metadiscourse within a discipline: A study of introduction and literature review chapters of sociology masters' theses. *Indonesian Journal of Applied Linguistics*, 10(2): 471-480.
3. Akoto, O. Y. and Amoakohene, B. (2020). Exploring wordless feedback mechanisms in an EAP course in an English-medium university: An Ethnographically-oriented Approach. *Journal of English Language Teaching and Applied Linguistics*, 2(4): 50-61.
4. Akoto, O. Y. (2020). Individualities in the referents of I, we, and you in academic lectures across disciplines. *Iranian Journal of English for Academic Purposes*, 9(4): 1-14.
5. Agbozo, E. G. and ResCue, E. (2020). Educational language policy in an African country: Making a place for code-switching/translanguaging. *Applied Linguistics Review*. DOI: <https://doi.org/10.1515/applirev-2020-2002>.
6. Gyimah Manu, J. (2020). Presupposition in Ghanaian and British Newspaper Editorials: A Comparative Study. *Ghana Journal of Linguistics*, 9(1): 18-45.

CONFERENCE PROCEEDINGS

1. ResCue, E. and Ampong, B. Changing Attitudes: Exploring the Legitimization of Pidgin as a Code Choice at the Tertiary Level. The School of Languages Conference 2019, University of Ghana, Legon. A symposium on Pidgin English in Ghana. October 22 – 24, 2019.

DEPARTMENT OF GEOGRAPHY AND

G. Dakurah

PhD (UK), MA (UK), MA, BA (Ghana)

J. Boafo

PhD (Australia), MPhil, BA (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Abass, K., Dumedah, G. & Frempong, F. (2019). Understanding the physical and human contexts of fluvial floods in rural Ghana. *International Journal of River Basin Management*, 1-36. <https://doi.org/10.1080/15715124.2019.1653310>
2. Abass, K., Appiah, D. O. & Afriyie, K. (2019). Does green space matter? Public knowledge and attitude towards urban greenery in Ghana. *Urban Forestry & Urban Greening*, 126462. <https://doi.org/10.1016/j.ufug.2019.126462>
3. Afriyie, K., Abass, K. & Adjei, P.O.W. (2019). Urban sprawl and agricultural livelihood response in peri-urban Ghana. *International Journal of Urban Sustainable development*, 1-17.
4. Afriyie, K., & Abass, K. (2020). Profiting from illegality: A discursive analysis of the chainsaw operation in rural Ghana. *Forest Policy and Economics*, 115: 102174.
5. Jeil, E. B., Abass, K. & Ganle, J. K. (2020). We are free when water is available: gendered livelihood implications of sporadic water supply in Northern Ghana. *Local Environment*, 25(4): 320-335.
6. Gyasi, R. M., Abass, K. & Adu-Gyamfi, S. (2020). How do lifestyle choices affect the link between living alone and psychological distress in older age? Results from the AgeHeaPsyWel-HeaSeeB study. *BMC Public Health*, 20(1): 1-9.
7. Abass, K. (2020). Rising incidence of urban floods: understanding the causes for flood risk reduction in Kumasi, Ghana. *GeoJournal*, 1-18. <https://link.springer.com/article/10.1007/s10708-020-10319-9>
8. Ayumah, R., Asante, F., Guodaar, L. & Eshun, G. (2020). How do climate and non-climatic variables influence the production of agricultural staple crops in vulnerable rural communities in the Bawku Municipality of Northern Ghana? *Advances in Agriculture*, Article ID 6484019, 13 pages.
9. **Yeboah, Y.J., Forkuor, D. & Agyemang-Duah, W. (2019). Exclusive breastfeeding practices and associated factors among lactating mothers of infant aged 6-24 months in the Kumasi metropolis, Ghana. *BMC Research Notes*, 12(1): 1-6.**

10. **Wadei, B., Adjei, P. O. W. & Forkuor, D. (2019). Gender role reforms in Ghana: Analysis of the nature, drivers and dimensions in rural and urban context. *Journal of Social Sciences and Humanities*, 5(4): 408-419.**
11. Gyasi R.M., Obeng B. & Yeboah J.Y. (2020). Impact of food insecurity with hunger on mental distress among community-dwelling older adults. *PLoS One*, 15(3): e0229840. doi:10.1371/journal.pone.0229840
12. Razak, M. G., Pephrah, P. & Appiah, D.O. (2020). Association of food insecurity with psychological disorders: Results of a population-based study among older people in Ghana. *Journal of Affective Disorders*, 270: 75–82.
13. Appiah, D.O. (2019). Climate Policy Research uptake dynamics for Sustainable Agricultural development in Sub-Saharan Africa. *GeoJournal*, pp. 1-13.
14. Segbefia, A.Y., Honlah E. & Appiah, D.O. (2019). Effects of water hyacinth invasion on sustainability of fishing livelihoods along the River Tano and Abby-Tano Lagoon, Ghana. *Cogent Food & Agriculture*, 5: 1654649.
15. Honla, E., Segbefia, A.Y., Appiah, D.O. & Mensah, M. (2019). Effect of water hyacinth invasion on smallholder farming along River Tano and Tano lagoon, Ghana. *Cogent Food and Agriculture*, 5: 1-13.
16. Boafo, J., Paalo, S. A., & Dotsey, S. (2019). Illicit Chinese Small-Scale Mining in Ghana: Beyond Institutional Weakness?. *Sustainability*, 11(21): 5943.
17. Honlah, E., Appiah, D.O. & Segbefia, A.Y. (2019). Coping Strategies to Water Hyacinth Invasion Among Riparian Communities in Ghana. *American Journal of Environment and Sustainable Development*, 4(1): 12-25.
18. Dakurah, G. (2020). How do farmers' perceptions of climate variability and change match or and mismatch climatic data? Evidence from North-west Ghana. *GeoJournal*. <https://doi.org/10.1007/s10708-020-10194-4>
19. Appiah, D.O. & Kyeremeh, E. (2019). Poverty Remedies from the Forest; A Review of Forest Resource Utilization in Ghana. *Advances in Environmental Studies*, 2(2): 122-131.
20. Appiah, D.O. & Eshun, G., Samar, B.S (2019). Analysis of Multiple Factors of Forest Cover Change in a Peri-urban District in Ghana. *American Journal of Environment and Sustainable Development*, 4(2): 95-100.
21. Yiridomoh, G. Y., Appiah, D. O., Owusu, V. & Bonye, S. Z. (2020). Women smallholder farmers off-farm adaptation strategies to climate variability in rural Savannah, Ghana. *GeoJournal*, 1-19.

22. Bofo, J. (2019). Expanding cashew nut exporting from Ghana's Breadbasket: A political ecology of changing land access and use, and impacts for local food systems. *The International Journal of Sociology of Agriculture and Food*, 25(2): 152-172.
23. Afriyie, K., Ganle, J. K., Segbefia, A. Y., Kamau, P. & Wamue-Ngare, G. (2020). Context matters: Stake holders' perspectives on the contextual factors which affect the success of microcredit programmes for poverty reduction among women in Ashanti, Northern and Volta regions. *Journal of Developing Societies*. DOI: 10.1177/0169796X20909032
24. Sampson Y., Appiah D. & Siaw L. P. (2019). Smallholder farmers' Perceptions and adaptive response to climate variability and climate change in Southern Rural Ghana. *Cogent Social Sciences*, 5(1). DOI: 10.1080/23311886.2019.1646626
25. Serbeh, R. & Adjei, P.O.W. (2019). Social Networks and the Geographies of Young People's Migration: Evidence from Independent Child Migration in Ghana. *Journal of International Migration and Integration*. <https://doi.org/10.1007/s12134-019-00720-w>
26. Walters, G., Baruah, M., Karambiri, M., Adjei, P. O. W., Samb, C. & Barrow, E. (2019). The power of choice: How institutional selection influences restoration success in Africa. *Land Use Policy*, 104090.
27. Adjei, P.O.W, Adjei, J.O. & Serbeh, R. (2020). Looking Beyond Cash Transfers for Optimizing Poverty Reduction and Livelihood Sustainability in Rural Ghana: Comparative Analysis of Two Social Policy Interventions against Poverty. *Poverty and Public Policy*, 12(1): 84-111.
28. Buor, D. (2019). Perspectives on Solid Waste Management Practices in Urban Ghana: A Review. *Journal of Waste Management and Disposal*, 2(3): 1-8.
29. Buor, D., & Asuah Gyan, M. (2020). Access to sanitation facilities in a predominantly rural district in Ghana: socioeconomic and cultural determinants and the equity syndrome. *International Journal of Geography and Regional Planning*, 6(1): 146-157.
30. Aboagye, D., Attakora-Amaniampong, E. & Owusu-Sekyere, E. (2020). Place-Based Assessment of Intersection of Biophysical and Social Vulnerability to Flooding in Accra, Ghana. *International Journal of Applied Geospatial Research (IJAGR)*, 11(1): 55-68.
31. Dumedah, G. (2019). Hydro Genome Mapping: An Approach for the Diagnosis, Evaluation and Improving Prediction Capability of Hydro-Meteorological Models. *Water Resources Management*, 33(11): 3851-3872.

32. Dumedah, G. & Eshun, G. (2020). The case of Paratransit-'Trotro'service data as a credible location addressing of road networks in Ghana. *Journal of Transport Geography*, 84: 102688.
33. Eshun, G., and Tichaawa, T. M. (2020). Towards sustainable ecotourism development in Ghana: Contributions of the local communities. *Tourism: An International Interdisciplinary Journal*, 68(3): 261-277.
34. Eshun, G., and Tichaawa, T. M. (2020). Developing Agro-Tourism Tours on the Cocoa Sector in Africa: Emerging Issues from Ghana. *EuroEconomica*, 39(1): 1-19.
35. Eshun, G. Tichaawa, T.M. & Appiah, D.O. (2019). Towards a sustainable coastal tourism development in Ghana. *African Journal of Hospitality and Leisure*, 8(4): 1-18.

CONFERENCE PAPERS/PROCEEDINGS

1. Abass, K., Afriyie, K. & Ofosu, A. (2019). Do we value urban green space? Changing pattern and attitude towards urban greenery in Ghana. Annual Conference of the Ghana Geographers Association (GGA), held in KNUST, Kumasi, 6th – 10th August, 2019.
2. Arimiyaw, A.W., Abass, K., & Asante, F. (2019). Urban irrigation water and vegetable farming: Assessing health risks from two contrasting lenses in urban Ghana. Annual Conference of the Ghana Geographers Association (GGA), held in KNUST, Kumasi, 6th – 10th August, 2019.
3. Akorful, A., Gift Dumedah, G., and Turkson, F.O. (2019). Smart Multiplatform Routing System for Road Travel via Local Transport. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 6-10th August, 2019.
4. Dumedah, G. (2019). Trotro Service Data: the road towards smart location data in Ghana. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 6-10th August, 2019.
5. Dumedah, G. (2019). Smart transport routing for solid waste collection around Aboabo, Kumasi. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. 6-10th August, 2019.
6. Adams, C., Osei, K.K and Dumedah, G. (2020). The COVID-19 Pandemic social distancing in public transport and its impact of safety security and operational sustainability. Ghana Infrastructure Conference 2020 (GIC-

- 2020), theme: Planning and Implementation of Sustainable Transportation Infrastructure, Aug 11-14, 2020.
7. Adams, C. and Dumedah, G. (2020). The impact of COVID – 19 lockdown on mobility and environment. Ghana Infrastructure Conference 2020 (GIC-2020), theme: Planning and Implementation of Sustainable Transportation Infrastructure, Aug 11-14, 2020.
 8. Arkoful-Andam, S. A., Dumedah, G., and Turkson, F.O. (2019). Smart Multiplatform Routing System for Road Travel via Local Transport. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. August 5-10, 2019.
 9. Dumedah G. (2019). Trotro Service Data: the road towards smart location data in Ghana. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 6 – 10 August, 2019.
 10. Dumedah, G. (2019). Smart transport routing for solid waste collection around Aboabo, Kumasi. Ghana Geographers Association 2019 Annual Conference, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 6 – 10 August, 2019.
 11. Yeboah, J. Y. (2019). Accessibility and Utilization of Health Services Among Persons with Disability in Rural and Urban Ghana. 6th International Conference on Social Policy and Governance Innovation, Lingnan University, Hong Kong. 22nd-23rd October, 2019.
 12. Owusu, H. K. and Yeboah, J.Y. (2019). Problems with Accessibility and Utilization of Healthcare Services by Persons with Disability in the Atwima Kwanwoma District, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 13. Akotia, S., Appiah, D.O., Abaidoo-Myles, A., Boateng, S.B and Adjei, J.A (2019). Assessment of Land Use and Land Cover Dynamics and Normalized Difference Built-Up Indices in the Kumasi Metropolis, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 14. Appiah, D.O., Schroder, D., Forkuo E.K and Bugri, J.T (2019). Land Use and Land Cover with Land Surface Temperature Extracts for Peri-Urban Heat and Rural Cool Troughs in Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 15. Garsonu, E.K., Alhassan, J. Baidoo, G.K, Kpevu, G.K and Alhassan, S. (2019). Environmental Impact of Woodfuel Extraction and Land Use in

- the Savannah Transition Zone, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
16. Agyemang, S. and Sarfo, S.O. (2019). Challenges of Healthcare Financing in Ghana: The Case of the Sekyere East District. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 17. Agyemang, S., Anim, N.A., Danso, F. and Richardson, A. (2019). Challenges of Emergency Healthcare Delivery and Accessibility in Ghana: Case of The Kumasi Metropolis. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 18. Preprah V. and Buor, D. (2019). Reducing Poverty among Women Through Informal Sector Activities: Evidence from Kumasi Metropolis, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 19. Forkuor, D. and Amoateng, B. (2019). The Relevance of The Rent Control Department in The Urban Housing Market: A Case Study of The Sekondi-Takoradi Metropolitan Assembly. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 20. Sandow, B. And Appiah, D.O (2019). Climate-smart agriculture and poverty reduction in Ejisu-Juabeng Municipality of Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 21. Wadei, B., Adjei, P.O.W., and Forkuor, D. (2019). Gender Transition Effects on Urban Livelihood Sustainability in Ashanti Region of Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 22. Agyemang, S. and Nunekpeku, J. (2019). Vulnerability of Coastal Communities to the Impact of Climate Change: The Case of Keta, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 23. Peprah, V. and Buor, D. (2019). Contribution of the informal Sector to Socio-Economic Welfare of Women in the Kumasi Metropolis: A Spatial Perspective. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
 24. Amankwaah, E., Appiah, D.O., Hiamey, R. and Dadzie, N.E. (2019). The Effects of Sea Erosion on Livelihood of Small Fishing Communities in The Ketu South Municipality, Ghana. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.

25. Angkaakpe, R.S and Adjei, P.O.W. (2019). Spatial Analysis of The Livelihood Empowerment Against Poverty Policy on Beneficiaries' Household Healthcare Accessibility: Evidence from Asokore Mampong and Ejisu Municipalities, Ashanti Region. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
26. Kawiena, E.T., Amoah, E.G., Garsonu, E.K., Kombat, P., Ansahene, M. And Baba, A. (2019). Does Street Addressing Really Matter in Urban Development? An Analysis of the Role of Street Addressing in the Development of Tema Metropolis. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
27. Boateng, S., and Buor, D. (2019). Pontificating the Relationship Between Field Trip and Academic Performance of Senior High School Students in Geography in the Kumasi Metropolis. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.
28. Kyeremeh, E., Asante, F, and Aboagye, D. (2019). Differential Vulnerability to Microbial Contamination of Vegetables in A Growing African Metropolis. Ghana Geographers Association (GGA) Annual Conference, KNUST, Kumasi, Ghana. 6th-9th August, 2019.

DEPARTMENT OF HISTORY AND POLITICAL STUDIES

ACADEMIC STAFF

Senior Lecturers:

S. Adu-Gyamfi	PhD, BA (Kumasi)
G. M. Bob-Milliar	PhD (Accra), BA (Kumasi)
E. Brenya	PhD, MA, MPA (USA), MA, BA (Accra)
D. Owusu-Ansah	PhD, BA (Kumasi)
K. Amakye-Boateng	PhD (Accra), MPhil (Norway), BA, BA (Accra)
A. Dramani	MPhil, BA (Accra)
D. De-Graft Arthur	PhD (Denmark), MPhil, BA (Accra)

Lecturers

A. Y. Nyaaba	PhD, BA (Kumasi)
M. M. Kuusaana	PhD, BA (Kumasi)

M. Nimoh	PhD, MA (Kumasi)
John-Paul S. Banchaani	PhD (Germany), MA (Accra), MA (UK), BA (Kumasi)
J. A. Abane	PhD (Thailand), MPhil, BA (Accra)
H. T. Yartey	MPhil, BA (Accra)
M. Abass	MPhil, BA (Accra)

ARTICLES IN REFEREED JOURNALS

1. Abass, K., Buor, D., Afriyie, K., Dumedah, G., Segbefi, A. Y., Guodaar, L., Garsonu, E. K., Adu-Gyamfi, S., Forkuor, D., Ofori, A., Mohammed, A. and Gyasi, R. M. (2020). Urban Sprawl and Green Space Depletion: Implications for Flood Incidence in Kumasi, Ghana. *International Journal of Disaster Risk Reduction*, 5(1): 101915.
2. Adu-Gyamfi, S. Tomdi, L. and Amakye-Boateng, K. (2020). Discourse on Non-Communicable Diseases Interventions in Ghana (1990-2018). *Journal of Basic and Applied Research International*, 26(2): 17-26.
3. Adu-Gyamfi, S., Amakye-Boateng, K., Awuah, D. B., Oware, R., and Quansah, S. (2020). An Evolutionary Study of Production of Electricity in Ghana (1900–1960). *History of Science and Technology*, 10(16): 10-33.
4. Adu-Gyamfi, S., Amakye-Boateng, K., Nyaaba, A. Y., Acheampong, A. B., Awuah, D. B., and Oware, R. (2019). Women and Medicine: A Historical and Contemporary Study on Ghana. *Ethnologia Actualis*, 19(2): 34-56.
5. Adu-Gyamfi, S., Darkwa, B. D., Awuah, D. B., and Tomdi, L. (2020). Cultural Change and Medical Practice among the Kwawu People of Ghana, c. 1700-2019. *Kervan – International Journal of Afro-Asiatic Studies*, 24(2): 143-175.
6. Adu-Gyamfi, S., Fordjour, E. A., Marfo, C. O. and Forson, I. A. (2020). Funerals among the Akan People: Some Perspectives on Asante. *Revista De Etnologie Şi Culturologie*, 27: 44-53.
7. Adu-Gyamfi, S., Kuusaana, M. M., Darkwa, B. D., and Tomdi, L. (2020). The Changing Landscape of Mission Medicine and Hospitals in Africa. *Christian Journal for Global Health*, 7(5): 65-81.
8. Adu-Gyamfi, S., Marfo, C. O., Nyaaba, A. Y., Amakye-Boateng, K., Abass, M. and Yartey, H. T. (2020). Free Senior High School (SHS) and Quality University Education in Ghana: The Role of the University Teacher. *Journal of Educational and Social Research*, 10(5): 225-239.

9. Adu-Gyamfi, S., Nyaaba, Y. A., Amakye-Boateng, K., Owusu-Ansah, D., and Nimoh, M. (2020). Illicit Drug Use and Trade: An Ethnographic Study of Kumase (2000-2018). *Romanian Journal of Sociological Studies, New Series*, 1: 1-23.
10. Adu-Gyamfi, S., Oware, R., and Awuah, D. B. (2019). Interest Groups, Issue Definition and the Politics of Traditional Medicine in Ghana. *Nordic Journal of African Studies*, 28(4): 19-19.
11. Adu-Gyamfi, S., Teikillah, A., Nyaaba, A. Y., Kuusaana, M. M., Darkwa, B. D., and Tomdi, L. (2020). Muslim Healers and Healing: An Ethnographic Study of Aboabo Community of Ghana. *International Journal of Modern Anthropology*, 2(14): 291-316.
12. Bob-Milliar, G. M. (2020). Introduction: Methodologies for Researching Africa. *African Affairs*. DOI: <https://doi.org/10.1093/afraf/adaa011>.
13. Bob-Milliar, G. M., and Nyaaba, Y. A. (2020). Political Transitions and Commissions of Inquiry: The Politicisation of Accountability in Ghana. *Third World Quarterly*, 4(10): 1-32.
14. Gyasi, R. M., Kabila, A., and Adu-Gyamfi, S. (2020). How Do Lifestyle Choices Affect the Link between Living Alone and Psychological Distress in Older Age? Results from the AgeHeaPsyWel-HeaSee B study. *BMC Public Health*, 20(1): 1-9.
15. Nimoh, M. and Adu-Gyamfi, S. (2020). The Labour Market in Ghana: Continuity and Change in the Fourth Republic (1992–2016). *Journal of Economic Regulation*, 11(3): 67-79.
16. Sanka, C. G., Adu-Gyamfi, S., and Marfo, C. O. (2020). Tales in the Paasaali Dirge: Structure and Moral Lessons from the Past. *Manusya: Journal of Humanities*, 23(1): 19-39.

BOOK CHAPTER

1. Bob-Milliar, G. M. (2020). Ghana: Recent History. In: Iain Frame (ed.), *Africa South of the Sahara 2021, 50th Edition*. London: Routledge. ISBN 9780367440466, 545 – 550.

CONFERENCE PAPERS/ PROCEEDINGS

1. Adu-Gyamfi, S. and Tomdi, L. (2020). Historicising Dilemmas and Hope in a Hospital Setting during a Pandemic. Paper presented at African Studies Association (ASA) conference, Session (VII-AN-8) Africa Now! Virtual, November 19, 2020.

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Beisland, L.A., Djan, K. O., Mersland, R. & Randøy, T. (2020). Measuring social performance in social enterprises: a global study of microfinance institutions. *Journal of Business Ethics*. <https://doi.org/10.1007/s10551019-04417-z>
2. Owusu, J., and Owusu-Ansah, W. (2020). Understanding crowd funding ecosystem as alternative source of entrepreneurial finance for SMEs in Ghana. *International Journal of Innovation, Creativity and Change*, 13(11): 931-946
3. Zaato, S.G., Ismail, M., Uthamaputhran, S. & Owusu-Ansah, W. (2020). The impact of entrepreneurial orientation on SMEs performance in Ghana: the role of social capital and government support policies. *Journal of Management and Entrepreneurship*, (22(2): 99-114.
4. Nwoba, A., Boso, N. & Robson, M.J. (2020). Corporate sustainability strategies in institutional adversity: antecedent, outcome, and contingency effects. *Business Strategy and the Environment*. <https://doi.org/10.1002/bse.2654>
5. Donbesuur, F., Boso, N. & Hultman, M. (2020). The effect of entrepreneurial orientation on new venture performance: Contingency roles of entrepreneurial actions. *Journal of Business Research*. <https://doi.org/10.1016/j.jbusres.2020.06.042>
6. Adeola, O. N., Boso, N. Osabutey, E.L.C. & Evans, O. (2020). Foreign Direct Investment and Tourism Development in Africa. *Tourism Analysis*. 10.3727/108354220X15957702910144
7. Essuman, D., Boso, N. & Annan, J. (2020). Operational resilience, disruption, and efficiency: Conceptual and empirical analyses. *International Journal of Production Economics*. <https://doi.org/10.1016/j.ijpe.2020.107762>
8. Addae, H.M. & Boso, N. (2020). Job satisfaction, distributive justice, perceived absence legitimacy and the role of turnover intentions: an exploratory study in Ghana. *International Journal of Organizational Analysis*. <https://doi.org/10.1108/IJOA-11-2019-1940>
9. Assadinia, S., Boso, N., Robson, M. & Hultman, M. (2019). Do Export Learning Processes Affect Sales Growth in Exporting Activities? *Journal of International Marketing*, 27(3): 1-25.

10. Kadić-Maglajlić, S., Micevski, M., Lee, N.J., Boso N. & Vida I. (2019). Synergies and Tensions across Three-level Ethical Influences on Selling Behavior and Performance. *Journal of Business Ethics*, 156: 377–397.
11. Assadinia, S., Kadile, V., Golgeci, I. & Boso, N. (2019). The Effects of Learning Orientation and Marketing Program Planning on Export Performance: Paradoxical Moderating Role of Psychic Distance. *International Small Business Journal*, 37(5): 423-449.
12. Hultman, M., Yeboah-Banin, A. & Boso, N. (2019). Linking improvisational behavior to customer satisfaction: The relational dynamics. *Journal of Business and Industrial Marketing*. DOI: 10.1108/JBIM-11-2017-0298
13. Dogbe C. S. K., Bamfo B. A. & Pomegbe W. W. K. (2020). Market Orientation and New Product Success relationship: The Role of Innovation capability, Absorptive Capacity, Green Brand Positioning. *International Journal of Innovation Management*. DOI:10.1142/S136391962150033X
14. Sarsah, S.A., Tian, H., Dogbe, C.S.K., Bamfo, B.A., & Pomeg, W.W.K. (2020). Effect of entrepreneurial Orientation on Radical Innovation Performance among Manufacturing SMEs: The Mediating Role of Absorptive Capacity. *Journal of Strategy and Management*, 13(4): 551-570. <https://www.emerald.com/insight/1755-425X.htm>

BOOK CHAPTERS

1. Mersland, R., Zamore, S., Djan, K. O. & Woldetsadik, T.S. (2019). Internationalization of the microfinance industry. In: Hudon, M., Labie, M. & Szafarz, A. (Eds.), *Research Agenda for Financial Inclusion and Microfinance* Edward Elgar Publishing
2. Djan, K. O. & Owusu-Ansah, W.A. (2020). Assessing the Impact of the Huawei Brand on the Information Communication Technology Infrastructure of Ghana. In: Zhang, W., Alon, I., Lattemann, C. (Eds.) *Huawei Goes Global Volume II: Regional, Geopolitical Perspectives and Crisis Management*. Palgrave Studies of Internationalization in Emerging Markets

DEPARTMENT OF RELIGIOUS STUDIES

ACADEMIC STAFF

Associate Professors:

J. E. T. Kuwornu-Adjaottor (Rev) PhD (Kumasi), MTh, BD (Accra), Dip (Kumasi),
Dip (Winneba)

**E. K. Asante (Most Rev.) PhD, MA, BTh. (Canada)

Senior Lecturers:

J. K. Opoku (Rev. Fr.) PhD (Netherlands), MBIO (Belgium), MA
(Netherlands), Cert. (France), BA (Accra)

F. Appiah-Kubi (Very Rev. Fr.) PhD. (Belgium), PhD (France), LST, BA, Dip.
(Congo)

V. S. Gedzi PhD, MA (Netherlands), Dip., BA (Cape Coast)

E. K. E. Antwi (Rev. Fr.) STD. (Germany) LST (Italy), PG. Dip. (Cape Coast),
BA (Accra), Cert. (Italy)

Y. Dumbe PhD, BA (Accra)

#P. Addai-Mensah (Rev. Fr.) STD, MEd, LST (USA), Dip, Dip, (Accra)

#F. Wiafe (Very Rev.) PhD (Kumasi), BD, MTh, Dip (Accra)

#M. S. Zakaria (Sheikh) MPhil (Accra) Dip. BA (Accra) Cert, (Cairo)

**N. I. Samwini (Rt. Rev.) PhD, MA (UK), Dip. (Accra)

**P. K. Bofo (Most Rev) PhD (Northern Ireland) BA, Dip (Accra)

** J. O. Agyemang (Rev. Msgr.) MDiv, DMin (USA)

Lecturers:

K. Opuni-Frimpong (Rev) PhD (Akropong), MTh (USA), Dip, BA (Accra)

M. K. Ntiamoah MPhil, BA (Kumasi)

E. Manu MPhil, BA (Kumasi)

J. W. Acheampong ThD (Germany), MTh (USA), BA (Accra)

A. F. Naah STD, LST, BTh (Italy)

M. M. Tayviah PhD, MPhil, BA. (Kumasi).

N. K. Nonterah PhD, MA (Belgium), MA, BA (Italy)

Contract

***Part – Time Lecturers*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Poku, J. K. (2019). Organ Transplantation Medicine: Religious and Ethical Considerations. *Addaiyan Journal of Arts, Humanities and Social Science*, 1(9): 13-21.
2. Appiah-Kubi, F. and Aabaa, G. (2019). African Traditional Worldview: Indigenous Resource for Rethinking Global Faith and Eco-cultic Spirituality. *Asian Horizons*, 13(2): 161-177.
3. Appiah-Kubi, F. (2019). Magisterium: Essential and Constitutive Element of The Church's Life and Mission in the Light of the Second Vatican Council. *E-Journal of Religion and Theological Studies*, 1(2): 24–32.
4. Appiah-Kubi, F. (2019). Cultural Rationality and African Religious Culture: A Critical Anthropological and Theological Investigation Towards Intercultural Dialogue. *Asian Horizons*, 13(4): 629-646.
5. Dumbe, Y. (2019). Islamic Polarisation and the Politics of Exclusion in Ghana: Tijaniyya and Salafis Struggles Over Muslim Orthodoxy (1960s-2000). *Islamic Africa Journal*. Brill, 10: 153-180.
6. Kuwornu-Adjaottor, J. E. T., Aidoo, D. A. and Nartey, M. (2019). A Comparative Study of metanoete in Matthew 3:2 in the Greek New Testament, Ga, Asante-Twi and Fanti Translations. *American Journal of Humanities and Social Sciences*, 3(12): 42-48.
7. Kuwornu-Adjaottor, J. E. T. (2019). A Critical Study of the Translation of Mark 1:12 in the Dangme Translation of the Bible. *Oguaa Journal of Religion and Human Values*, 5(2): 146-164.
8. Kuwornu-Adjaottor, J. E. T. and Yankyera, P. (2019). A Study of charismata hamatoon [Gifts of Healing] in 1 Corinthians 12:9: Implications for Present Day Christian Ministry. *American Journal of Biblical Theology*, 20(9): 1-15.
9. Korsah L.A., and Kuwornu-Adjaottor, J. E. T. (2019). The Akan experience of God Through the Eyes of the Fanti from Oguaa. *Arts and Humanities Open Access Journal*, 3(6): 280-283.
10. Kuwornu-Adjaottor, J. E. T. and Nartey, M. (2019). Following Jesus and Burying the Dead in Ghana: A Study of Matthew 8:21-22 in the Dangme

translations of the Bible. *International Journal of Humanities and Social Science Research*, 5(6): 81-85.

11. Kuwornu-Adjaottor, J. E. T., Yakyera, P. and Tabi, G. (2019). A Study of Charismata Hamatooon (Gifts of Healings) in 1Corinthians 12:9: Implications for Present Day Christian Ministry. *American Journal of Biblical Theology*, 29(9): 1-15.
12. Gedzi, V.S. (2019). The Role of Culture and Law in Sustaining Trokosi Institution in Southern Ghana. *Oguaa Journal of Religion and Human Values*, 5(2): 1-21.
13. Gedzi, V.S., Dumbe, Y. and Ahenkorah, S.K. (2019). Homosexuality in Ghana: Perspectives of Science, Social Learning Theory and Religion. *Oguaa Journal of Religion and Human Values*, 5(1): 18-40.
14. Dumbe, Y., Tweneboah, S. and Gedzi, V.S. (2019). Pentecostalism, the Media, and the State: Politicization of Indigenous Customary Systems in Ghana. *Politics, Religion and Ideology*, 1-28.
15. Gedzi, V.S. and Eshun, G. (2020). Emotions, Transcendence, Differentiated Voices and Resistances at Cape Coast Castle: A Poetic Analysis, *African Journal of Hospitality, Tourism and Leisure*, 9(3): 149-166.
16. Dumbe, Y., Gedzi, V.S. and Seekey, O. I. (2020). Contesting Religious Authority in Ghana: Perspectives on the Literary Works of Aminu Bamba, *Journal of the Contemporary Study of Islam*, 1(2): 108-127.
17. Addai-Mensah, P. (2020). A Theological Reflection on the Concept of Sin in Christianity. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 106-109. DOI:10.38159/ehass.2020081
18. Addai-Mensah, P. (2020). A Discussion on the Religious Response to the Problem of Evil in Ghana Today. *E-Journal of Religious and Theological Studies*, 6(5): 253-256. DOI: <https://doi.org/10.38159/erats.2020082>
19. Anomah, A. K. and Addai-Mensah, P. (2020). The Role of Chief-King Among the Akan: A Theological Reflection. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 194-200. DOI:10.38159/ehass.2020082
20. Anomah, A. K. and Addai-Mensah, P. (2020). The Role of the Laity in the Roman Catholic Church and in the World Today. *E-Journal of Religious and Theological Studies*, 6(5): 1-15. DOI: 10.32051/01202002
21. Appiah-Kubi, F. and Andoh Korsah, L. (2020). The Vocation, Ministry and Mission of the Catholic Priests and Religious Men and Women in Church Mission in Africa. *E-Journal of Religion and Theology*, 1(1): 43-51.

22. Appiah-Kubi, F. (2020). The reciprocal Causation of the Eucharist and the Church: A Critical Analysis from Catholic Theological Perspective. *E-Journal of Religious and Theological Studies*, 6(5): 318-324. DOI: <https://doi.org/10.38159/erats.2020096>
23. Appiah-Kubi, F., and Karikari, I. O. (2020). Jurgen Moltmann's Theology of Hope and the Task of Public Theology in the Ghanaian Context. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 165-173. DOI:10.38159/ehass.2020095
24. Appiah-Kubi, F. and Bonsu, R. (2020). The Nature and Missionary Role of the Lay People in the Light of Vatican II: Convenience or Conviction? *E-Journal of Humanities, Arts and Social Sciences*, 1(1): 28-36. DOI:10.38159/ehass.2020054
25. Kuwornu-Adjaottor, J. E. T. (2020). A Critical Translation of Matthew 6:12 in the Dangme Bible. *Journal for the Study of the New Testament in Southern Africa*, 54(1): 67-86.
26. Ntiamoah, M. K. and Asiedu-Amoako, S. (2020). Environmental Ethics in Akyem Abuakwa: Developing the Ecological Zone through the African Worldview. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 185–193. DOI: 1038159/ehass.2020097
27. Yankyera, P., Kuwornu-Adjaottor, J. E. T., Antwi E. K. E. and Wiafe, F. (2020). The Church as a Spiritual and Social Being: A Holistic Approach to Ministry in the Contemporary Ghanaian Society. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 194-200. DOI:10.38159/ehass.2020098
28. Yunus, D., Gedzi, V.S. and Osman, I. S. (2020). Contesting Religious Authority in Ghana: Perspectives on the Literary Works of Aminu Bamba. *Journal of the Contemporary Study of Islam Journal of the Contemporary Study of Islam*, 1(2): 108-127. DOI: [10.37264/jcsi.v1i2.21](https://doi.org/10.37264/jcsi.v1i2.21)
29. Opoku, J. K. (2020). A Comparative Study of Human Experimentation from the Christian and Islamic Perspectives. *Addaiyan Journal of Arts, Humanities and Social Science*, 2(1): 66-75. ISSN: 2581-8783
30. Kuwornu-Adjaottor, J. E. T. (2020). A Critical Translation of Matthew 6:12 in the Dangme Bible. *Journal for the Study of the New Testament in Southern Africa*, 54(1): 67-86.
31. Yankyera, P., Kuwornu-Adjaottor, J. E. T., Antwi, E. K. E., and Wiafe, F. (2020). The Church as a Spiritual and Social Being: A Holistic Approach to Ministry in the Contemporary Ghanaian Society. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 194-200.

32. Yankyera P, Kuwornu-Adjaottor, J. E. T., Antwi, E. K. E. and Wiafe, F. (2020). A Historical-Critical and Morpho-Synthatic Interpretation of Luke 4:18-19. *E-Journal of Religious and Theological Studies*, 6(6): 325-333.
33. Asamoah, E. F. and Kuwornu-Adjaottor, J. E. T. (2020). A Critical Study of the Designation of Chapter as Ti by Asante-Twi Bible Readers. *E-Journal of Humanities, Arts and Social Sciences*, 1(6):2 20-227. DOI:10.383159/ejass.2020103

BOOK CHAPTER

1. Antwi, Emmanuel Kojo Ennin, (2020). Church's Response to the Impact of Religious Fundamentalism on the Christian Communities in West Africa with Ghana as a Case Study. In: *Challenges to Church's Mission in Africa*. Fabrizio Meroni (Ed.), Rome: Aracne Editrice, 189-212.

BOOKS

1. Opoku, John K. (2020). *Philosophy of Religion*. Kumasi: X-Lens Media Concepts. ISBN: 25826546319345
2. Kuwornu-Adjaottor, J. E. T. (2020). *New Testament Theology for College Students and Pastors*. Accra: Noyam Publishers. ISBN 978-9988-53-387-8. 70 pp.
3. Kuwornu-Adjaottor, J. E. T. (2020). *A Background to the New Testament for College Students and Pastors*. Accra: Noyam Publishers. ISBN 978-9988-53-626-8. 131 pp.

DEPARTMENT OF LANGUAGE AND COMMUNICATION SCIENCES

ACADEMIC STAFF

Associate Professors:

- | | |
|-------------------|-----------------|
| K. Opoku-Agyeman* | PhD (France) |
| C. Marfo | PhD (Hong Kong) |

Senior Lecturers:

- | | |
|-----------|----------|
| P. Arthur | PhD (UK) |
|-----------|----------|

J. Nsiah*	MA (Kumasi)
S. Yankson	PhD (Netherlands)
K. A. Manyah	PhD (US)

Lecturers:

L. Tettey	PhD (France)
D. Pimpong	MA.FLE (France)
M. Nartey	PhD (Kumasi)
E. Oteng-Preko	MA
M. Damoah	MPhil (Cote d'Ivoire)
M. Yegblemenawo	PhD (Kumasi)
B. Ampong	MPhil (Kumasi)
E. Fordjour	MPhil (Legon)
I. A. Forson	MPhil (Legon)
J. Oppong-Asare	MPhil (Cape Coast)
G. Appiah	MPhil (Winneba)
L. Abunya	PhD (Legon)
D. Nkrumah	PhD (China)

Assistant Lecturers:

F. Tella	MA (Legon)
G. A. Asante	MPhil (France)
M. Dumand	MA (France)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Arthur, P. (2019). Man, Know Thyself: The Role of Ananse Stories in Ghanaian Pedagogy. *Journal of Mother-tongue Biblical Hermeneutics and Theology*, 2: 8-24

2. Arthur, P. (2020). Heroism and Philosophy: The Literary Perspective of Yaw Asare's Ananse in the Land of the Idiots. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 152-164.
3. Arthur, P., Sanka, C. and Yeboah, P. The Textuality of Ghanaian Anansesem: The role of Higher Mental Capacity in Traditional Human Relations. *The Journal of Advances in Language and Literary Studies*. (in press)
4. Sanka, C. and Arthur, P., Ablah S. G. Deconstructing Feminist Positions in Chika Unigwe's *Possessing the Secret of Joy* and Ama Ata Aidoo's *The Girl Who Can*. *Journal of Language and Literature*. (in press).
5. Nyantakyi, G., Arthur, P. Yevudey, E. Counter-hegemonic practices: a study of the song text of the Apoo festival of the Bono people in Ghana. *South African Journal of African Languages*. (in press).
6. Arthur, P. and Sanka, C. (2020). When the Traditional Songs Become Modern: Cultural Replication of the Traditional Responsible Woman in the Modern Gold-digger Woman. *Journal of Applied Thought*, 8(1): 137-150
7. Arthur, P., Marfo, C. and Rescue, E. Carrying the War against Corona Virus into the Communities: The Communication Review of the Fight against Corvid-19 in Ghana, Using the Akan community as a Case Study. *Journal of Siberian Federal University, Humanities & Social Sciences*. (in press).
8. Arthur, P. Values and Behaviour: A Case Study of the Concept of "Bosom" in the Akan culture. *KENTE – Cape Coast Journal of Literature and the Arts*. (in press).
9. Kuwornu-Adjaottor, J. E. T., Yankyera, P., and Yankson, S. A. (2018). Dynamic Equivalence and Mother-Tongue Translations of the Bible. *E-Journal of Religious and Theological Studies*, 1(1): 224-231.
10. Yankson, S.A. (2018). Language contact and change in linguistically heterogeneous urban communities: the case of Akan in Accra. Utrecht: NL: Netherlands Graduate School of Linguistics (LOT).
11. Kuwornu-Adjaottor, J.E.T., Yankson, S., and Aidoo, M. (2019). The translation of Παράβολη (parable) as abe in the synoptic Gospels of the Ga New Testament bible. *Journal of Mother-Tongue Biblical Hermeneutics and Theology*, 1(1): 23-28. DOI: 10.32051/0624 1903.
12. Yegblemenawo, D. E. E. and Yegblemenawo, S. A. M. (2020). Documenting Praise Names "Ahanorɔkɔ" among Ewes: A Socio-Semantic Perspective. (in press) <https://langsci-press.org/catalog/book/293>

13. Fiadzawoo, J. K., Yegblemenawo, S. A. M. and Attati, F. (2020). Dynamiser l'enseignement de l'écrit dans les classes à effectifs pléthoriques dans les lycées du Ghana : les avis des enseignants du FLE dans la métropole de Cape Coast. *European Scientific Journal*, 16(19): 541. <https://doi.org/10.19044/esj.2020.v16n19p541>
14. Owusu, E. and Abunya, L.N. (2020). Börjars and Burridge's *Introducing English Grammar*: Book Review. *Open Access Library Journal*, 7: e6817. <https://doi.org/10.4236/oalib.1106817>.
15. Abunya, L. N. Complementation in Kaakye. *Journal of West African Languages*. (in press)
16. Abunya, L. N. Kaakye noun class system. *Studies in African Linguistics*. (in press)
17. Abunya, L. N., Owusu, E. and Naapane, F. A comparative study of the simple clause in Akan, Dagaare and English. *Journal of Language and Linguistics*. (in press)
18. Nkrumah, D. and Hassan, S. Unlocking the gates and setting the agenda: New media brings new life to media culture in Ghana. *Media Practice and Education*. (Under Review)
19. Nkrumah, D. and Bekoe, D. N. Rationalism in China-Ghana Relations: Intuitive or Induced? *China International Strategy Review*. (Under Review)
20. Tella, F., Opoku, B. and Abayie, H. (2018). Press coverage of Corporate Social Responsibility Performance in Ghana. *Covenant Journal of Communication*, 5(1): 22–39.
21. Tella, F., Suraya, A., Bonsu, M.A. and Anani-Bossman, A.A. (2020). Crisis Communication and Ghana's Financial Sector. *Covenant Journal of Communication*, 7(1): 53–83.

CONFERENCE PAPERS/PRESENTATIONS

1. Marfo, C. (2018). Digitizing for societal needs: The case of Twi Medical Glossary. ACALAN Workshop on African Languages in the Cyberspace, Oasis Motel, Gaborone, Botswana, June 21-22, 2018.
2. Marfo, C. (2018). Content and structure of 'Discussions' and 'Results' sections of academic papers. Academic Writing for Africa Workshop, Choice Gate Hotel, Benin City, Nigeria, May 28 – June 2, 2018.

3. Marfo, C. and Osam, E. K. (2018). Optimal inflections as asymmetry between verbal and nominal reduplicated forms in Akan. *Dolphyne@80 Symposium*, University of Ghana, Legon, March 1, 2018.
4. Arthur, P. (2021). Annual Conference at African Linguistics 51-52 at the University of Florida, April 8-10. (Abstract Accepted).
5. Adu, M. K. (2018). Illustrations of the IPA: where are the African Languages? 49th Annual Conference on African. Michigan State University, Lansing, USA, March 22-25, 2018.
6. Adu, M. K. (2019). Non-native Speakers' Identification of Lexical Tone Contrasts. Proceedings of the 19th International Congress of Phonetic Sciences. Melbourne, Australia, 2019, (pp. 2782-2786). Canberra, Australia: Australasian Speech Science and Technology Association Inc.

BOOK CHAPTERS

1. Arthur, P. (2020). The Tropology of Akan Drum Language: Sounds and Meanings from Mamponghe's Drum Appellation, In Edmund Abaka, ed., *Ashanti World*, London: Routledge.
2. Tella, F. (2020). Ethical issues in social media research. In: Du Plessis, C & Abdool – Satar (eds.) *Introduction to Social Media Research: Theory and Application*. Juta: Lansdowne

BOOKS

1. Arthur, P. *Role of Anansesem in Ghanaian Pedagogy*. Germany, LAP LAMBERT Academic Publishing. (In print).
2. Yankson, S.A. (2018): *Language contact and change in linguistically heterogeneous urban communities: the case of Akan in Accra*. Utrecht: NL: Netherlands Graduate School of Linguistics (LOT).

DEPARTMENT OF HUMAN RESOURCE AND ORGANISATIONAL DEVELOPMENT

ACADEMIC STAFF

Associate Professor:

N. M. Kamil

PhD (Malaysia), MBA, BSc (Kumasi)

Senior Lecturers:

H. K. Mensah	PhD ((Kumasi), MSc, (Norway), BA ((Kumasi)
#J. K. Turkson	MBA (Legon), PG.Dip. (Kumasi) B.Ed (Cape Coast),
F. Asiedu-Appiah (Mrs.)	PhD (Kumasi), MSc (UK), BA (Kumasi)
F. Ellis (Mrs.)	PhD (UK), BA (Kumasi)
H. V. Osei	PhD (Kumasi), MBA (UK), BA (Kumasi)
R. B. Coffie (Mrs.)	PhD (Kumasi), Grad.Dip. (UK), M.Ed, B.Ed (Cape Coast)

Lecturers:

A. S Azinga	PhD (Kumasi), CEMBA, BA (Tamale)
-------------	----------------------------------

Part-Time Lecturers:

V. Commey (Mrs.)	MBA, BA (Kumasi)
P. R. Osa-Akonnor (Mrs.)	MPhil (Cape Coast), B.Ed (Winneba)

Assistant Lecturers (Part-Time):

A. Sardiya (Mrs.)	MPhil, BSc (Kumasi)
J. Antwi-Agyei (Mrs.)	MPhil (Kumasi), MA (UK), BA
G. O. Sarpong (Mrs.)	MPhil (Cape Coast), BA (Kumasi)
M. Hamidu	MSc, BSc (Accra)
P. Opuni-Dapaah	MPhil, BSc (Kumasi)
J. Osei Obiri Yeboah	MPhil, BSc (Kumasi)

#Contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Aidoo, S., Agyapong, A., & Mensah, H. K. (2020). Social capital and performance of SMEs: the role of entrepreneurial orientation and managerial capability. *Africa Journal of Management*, 6(4): 377-406.

2. Amoakohene, M.B., Paruzie, I.B. and Ellis, F., (2020). Team Diversity on Team Effectiveness: the case of the Construction industry in the Ashanti Region. *Journal of Management and Economic Studies*, 2(3): 135-151.
3. Appiah Osei, B, Ragavan, N. A. & Mensah, H. K. (2020). Prospects of the Fourth Industrial Revolution for the hospitality industry: A literature review. *Journal of Hospitality and Tourism Technology*, 11(3): 479-494.
4. Asiamah, N., & Mensah, H. K. (2019). Leadership Status and Demographic Correlates of Whistleblowing: The Influence of a Consolidated Theory. *International Journal of Healthcare Management*, <https://doi.org/10.1080/20479700.2019.1692767>
5. Asiamah, N., Mensah, H. K., & Azinga, S. A. (2019). Enhancing Nurses' Job Satisfaction through Remuneration: Can Materialism be a Threat? *International Journal of Ethics and Systems*, 35(3): 359-375. <https://doi.org/10.1108/IJOES-01-2019-0012>
6. Azinga, S. A, Asiamah, N., and Mensah, H. K. (2019). Eschewing Love of Money and Materialism: A Potential Step Towards Avoiding Nurses' Intention to Quit. *International Journal of Behavioural and Healthcare Research*, 6(3-4): 225-236.
7. Ellis, F, Kwofie, T.E., Awuni, M., Coffie, R.B. and Duffour, M. (2019). Workforce Diversity and Team Effectiveness: Insights from the Construction Sector in Ghana. *Journal of Business Diversity*, 19(5). <https://doi.org/10.33423/jbd.v19i5.2643>
8. Mensah, C. N., Osei, H. V., Dauda, L., & Salman, M. (2020). Ditch or Bump? Foreign Direct Investment and Economic Growth: Evidence from the OECD Economies. *International Journal of Management, Accounting and Economics*, 6 (12), 862-890, ISSN 2383-2126 (Online)
9. Michaud, J., Lvina, E., Galperin, B.L., Lituchy, T.R., Punnett, B.J., Taleb, A., Mukanzi, C., Senaji, T., Bagire, V., Puplampu, B. and Ford Jr, D.L., Asiedu-Appiah, F., Agyapong, A. (2020). Development and validation of the Leadership Effectiveness in Africa and the Diaspora (LEAD) scale. *International Journal of Cross Cultural Management*, 20(3): 361-384.
10. Osei, B.A., Ragavan, N. A., Mensah, H.K., & Kandappan, B. (2020). Hospitality Revolution 4.0: A literature review on a unified typology of IR 4.0 technologies for the tourism and hospitality industry in the era of COVID-19. *Asia-Pacific Journal of Innovation in Hospitality and Tourism*, 9(1): 25–45.
11. Osei, H. V., Asiedu-Appiah, F., & Amoah, P. A. A. (2020). The fish rots from the head down: a test of the trickle-down model of abusive supervision.

Organization Management Journal. <https://doi.org/10.1108/OMJ-11-2018-0635>.

12. Osei, H. V., Agyapong, A., & Kwateng, K. O. (2019). The moderated mediation processes in firm-specific human capital development and task performance relationship. *International Journal of Organizational Analysis*, 27(3): 396-413
13. Osei, H. V. (2019). Tribute to a true and loyal friend. *African Review of Economics and Finance*, 11(1): 12-14.

CONFERENCE PAPERS/PROCEEDINGS

1. Aidoo, S., Agyapong, A., & Mensah, H. K. Social capital and performance of SMEs: the role of entrepreneurial orientation and managerial capability In 5th Biennial Conference, Africa Academy of Management (AFAM)-Lagos-Nigeria, January 8-11, 2020.
2. Agyapong, A., Dakorah, P.M. and Mensah, H.K. International Mindset as a Contingency in the Entrepreneurial Behaviour-Performance Relationship: Evidence from SMEs in a Developing Economy. In 5th Biennial Conference, Africa Academy of Management (AFAM)-Lagos-Nigeria, January 8-11, 2020.
3. Hamidu, M., Kponyo, J.J. and Acakpovi, A. Innovative Prediction of Vehicle Position Based on Closed Loop Modeling of Capacitive Accelerometer. In 2019 International Conference on Cyber Security and Internet of Things (ICSIoT) (pp. 54-61). IEEE.
4. Mensah, H K. Can Corporate Governance be blamed for Listed Bank Failure? Academy of International Business (AIB) Sub-Saharan Africa (SSA) Chapter, 2018 Conference in Accra, Ghana. August 3 – 5 , 2019.
5. Agyapong A. and Mensah, H K. The Role of International Mindset in the Relationship between Entrepreneurial Behaviour and Performance: Empirical Examination of SMEs in a Developing Economy, Academy of International Business (AIB) Sub-Saharan Africa (SSA) Chapter, 2018 Conference in Accra, Ghana. August 3–5, 2019.

DEPARTMENT OF COMMERCIAL LAW

ACADEMIC STAFF

Associate Professor:

L. A. Nkansah (Mrs.) PhD (US) LL.M (Nigeria), B.L (Accra), B.L, LL.B (Nigeria)

Senior Lecturers:

E. Owusu-Dapaa PhD, LL.M (UK), LL.B (Legon), B.L (Accra)

C. Adomako-Kwakye PhD (South Africa), LL.M (UK), B.L (Accra), BA (Legon)

Lecturers:

E. N. Amasah PhD (Kumasi), LL.M (UK), BL (Accra), PG.Dip (UK), BA (Kumasi)

D. A. Gawu (Mrs.) LLM (UK), BL (Accra), LL.B (Kumasi)

Assistant Lecturers:

D. A. Agyei (Mrs.) # PhD, LL.M (UK), BL (Accra), LL.B (Kumasi)

E. A. Bediako LL.M (South Africa), BL (Accra), LL.B (Kumasi)

D. B. Bewel LL.M (Kumasi), BL (Accra), LL.B (Kumasi)

#Study Leave

ARTICLES PUBLISHED IN REFEREED JOURNAL

1. Nkansah, L. A., & Gawu, D. A. A. (2020). Review of the Electoral Process under Ghana's Fourth Republic. *African journal of international and comparative law*, 28(3): 355 – 377.
2. Adomako-Kwakye, C. & Owusu-Dapaa, E. (2020). The Challenges for Surrogate Mothers in Ghana. Recommendations for The Legal Protection of Their Rights. *Medicine and Law*, 39(4): 604-617.
3. Owusu-Dapaa, E. (2020). Academic Lawyers and The Evolution of Medical Law/ Healthcare Law as A Distinct Field of English Law. *Medicine and Law*, 39(4): 537-553.

4. Owusu-Dapaa, E. & Emiri, F. (2019). A Cathedral Pedagogy for Teaching Law. Using Contract Law as Sample. *KNUST Law Journal*, 8: 182.
5. Morhe, R. A. S. & Adomako-Kwakye, C. (2019). Property Rights of Ghanaian Women in Informal Conjugal Unions. *KNUST Law Journal*, 8: 88.
6. Adomako-Kwakye, C. & Adjei Bediako, E. (2019). Is the Mineral Development Fund Act, the Panacea for Development of Mining Areas in Ghana? *KNUST Law Journal*, 8: 165.

BOOKS

1. Owusu-Dapaa, E. & Giwa, F.E.A. *Essentials of Lawyering Skills in Africa* (Lagos: Malthouse Press Limited, 2020) (ISBN 978-978-57643-5-2)
2. Owusu-Dapaa, E. & Kwarteng, N.F. *Ghana Legal System and Legal Method – A Core Text Book for LLB Students*, (Accra: Major Dadzie Books, 2019) (ISBN 978-9988-54-500-0)

BOOK CHAPTERS

1. Nkansah, L. A. (2020). Types of International Criminal Courts in Africa, in Jeremy Sarkin and Allah T.M. Siang'andu (eds). *Africa's Role and Contribution to International Criminal Justice*. *Supranational Criminal Law: Capita Selecta*, Intersentia, Antwerp 25-53.
2. Nkansah, L.A., Addadzi – Koom, M. (2019). Presidential Grant of Pardon and Rule of Law: The Case of Montie Trio. In FRANCISCA KUSI-APPIAH (ED), *Ghana @60: Evolution of the Law, Democratic Governance, Human Rights, and Future Prospects*, Galda Verlag, Glienicke 93-116.
3. Owusu-Dapaa, E. (2020). Commissions of Inquiry and the Quest for A Greater Accountability in Health Care Delivery in Africa: A Ghanaian Perspective in Ndulo, M et al *Handbook on African Law*, Routledge/Taylor and Francis Publishers.
4. Gawu, D. A. (2020). Is It Time for Change? — An Overview of Ghana's Legal Regime on the Taxation of Independent Personal Services and its Effect on Tax Revenue Generation. In Dowuona-Hammond, C and others, *Mobilising the Law for Ghana's Future: Appraising to Revolutionize*. (Wildlys, Simmonds, and Hill, 2020) pp 301-326.

S. Ofori	LL.M (Kumasi), BL (Accra), LL.B (Kumasi)
K. B. Agyei	BL (Accra), LL.M, LL.B, BA, Dip.
E. K. Amoah	PhD, LL.M (Kumasi), BL (Accra), LL.B (Kumasi), BSc (Legon)

#Study leave

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Addadzi-Koom, M. E. (2020). Of Women's Rights Jurisprudence of the ECOWAS Court: The Role of the Maputo Protocol and the Due Diligence Standard. *Feminist Legal Studies*, 28(2). DOI: 10.1007/s10691-020-09432-4.
2. Addadzi-Koom, M. E. (2020). Quasi-State of Emergency: Assessing the Constitutionality of Ghana's Legislative Response to Covid-19. *The Theory and Practice of Legislation*, DOI: 10.1080/20508840.2020.1777648.
3. Addadzi-Koom, M. E. (2019). 'Midnight' Actions During Presidential Transitions in Ghana: A Rising Tide. *African Journal of Comparative Constitutional Law*, 1: 25-54.
4. Addadzi-Koom, M. E. & Adjei-Bediako, E. (2019). Implementing an E-Justice System in Ghana: Prospects, Risks, Challenges and Lessons from Best Practices. *KNUST Law Journal*, 8: 108-142.
5. Addadzi-Koom, M. E. (2019). He beat me, and the state did nothing about it: The due diligence standard and state responsibility for domestic violence in international law – An African Perspective. *African Human Rights Law Journal*, 19(2): 624-652.
6. Amoah, E. K. (2020). The Existence of African Jurisprudence: An Audit of Life Experience of Precolonial Anlo Traditional Society. *E-Journal of Humanities, Arts and Social Sciences*, 1(6): 201-212.
7. Amoah, E. K. (2020). Justification for Implementing Victim-Offender Mediation in the Criminal Justice System of Ghana. *E-Journal of Humanities, Arts and Social Sciences*, 1(5): 118-130.

BOOKS

1. Seneadza, O. K. (2019). *Introduction to Administrative Law in Ghana*. KOS Publications, Ghana. ISBN 978-9988-54-616-8. 252p.

CHAPTERS IN BOOKS

1. Nkansah, L.A., Addadzi – Koom, M. E. (2019). Presidential Grant of Pardon and Rule of Law: The Case of Montie Trio. In: Francisca Kusi-Appiah (ED), Ghana @60: Evolution of the Law, Democratic Governance, Human Rights, and Future Prospects, Galda Verlag, Glienicke 93-116.

CONFERENCE PAPERS/PROCEEDINGS

1. Nkansah, L.A., Addadzi-Koom, M. E. (2019). Presidential Grant of Pardon and Rule of Law: The Case of Montie Trio. In Kusi-Appiah, F. (Ed.), Ghana@60: Evolution of the Law, Democratic Governance, Human Rights and Future Prospects. In: Proceedings of a Conference (pp. 93-120). Glienicke: Galda Verlag, March 9-10, 2017.
2. Addadzi-Koom, M. E. Quasi-State of Emergency: Assessing the Constitutionality of Ghana's Legislative Response to Covid-19. Global Legislative Responses to Coronavirus Webinar organized by Bingham Centre for the Rule of Law and Theory and Practice of Legislation Journal. June 30, 2020.
3. Addadzi-Koom, M. E. & Nkansah, L. A. Moving from Legal Justice to Gender Justice: A Case Study of the ECOWAS Court. Workshop on Gender and Judging in Pluralistic Societies: A Comparative Assessment of Access to Justice for Women Across Africa, Accra, Ghana. August 8-10, 2019.

DEPARTMENT OF ACCOUNTING AND FINANCE

ACADEMIC STAFF

Associate Professor:

#J.M. Frimpong PhD (Ghana), MCILT, MSc. Advanced Diploma (UK), FCFIA BA (Ghana)

Senior Lecturers:

M. Adusei PhD, MPhil, BSc (Ghana) LLB (UK), Advanced Diploma (UK)

K.O. Appiah PhD, MSc ACCA (UK), BSc (Ghana) FCIFIA

D. Domeher PhD, MA, FHEA (UK), BA (Ghana)

K. Mireku PhD, MBA, B. Com (Ghana)

*K. Poku MBA (UK), BSc (Ghana)

Lecturers:

N. A. Boamah PhD (Australia), MPhil, MSc (UK), BSc (Ghana)
G. Aawaar PhD (South Africa), ACCE (USA), MSc (UK), BA (Ghana)
J.O. Akotey PhD (South Africa), MPhil (Ghana), BSc (Ghana)
**G. Boako PhD (South Africa), ChFE (USA), MBA, MPhil, BSc (Ghana)
A. Peparah-Yeboah MPhil, BSc (Ghana)
B. Sarpong-Danquah MPhil, BSc, CA (Ghana)

Assistant Lecturer:

*J.A. Agana MPhil, BSc CA (Ghana)

Part-Time Lecturers:

K. oduro Amoako PhD (New Zealand), MBA, BBA (Ghana)
R. Owusu-Afriyie EMBA, CA (Ghana)
E. Yeboah FCFIA, CA (Ghana), ACIB, MBA, BSc (Ghana)
C.O. Mintah MBA, BSc, CA (Ghana)

* *Study Leave*

** *Sabbatical Leave # Post Retirement Contract*

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Appiah, K.O., Gyimah, P. and Adom, M.B. (2020). Advancing firms performance in Ghana: does IFRS adoption matter? *African Journal of Accounting, Auditing and Finance*, 7(2): 143-154.
2. Appiah, K.O., Gyimah, P. and Abdul-Razak, Y. (2020). Financial leverage and corporate performance: does the duration of the debt ratio matters? *International Journal of Business and Emerging Markets*, 12(1): 31-45.
3. Gyimah, P., Appiah, K.O. and Lussier, R.N. (2020). Success versus failure prediction model for small businesses in Ghana. *Journal of African Business*, 21(2): 215-234.

4. Aboagye, R.A. and Appiah, K.O. (2019). Capital structure and shareholders' value. *EuroMed Journal of Management*, 3(1): 50-60.
5. Adusei, M. and Adeleye, N. (2021). Credit information sharing and non-performing loans: The moderating role of creditor rights protection. *International Journal of Finance and Economics*, 1–14. DOI: 10.1002/ijfe.2398
6. Adusei, M. Adeleye, N. and Okafor, A. (2020). Drivers of credit union penetration: An international analysis. *Managerial and Decision Economics*, 42(3): 710-723. DOI: 10.1002/mde.3267
7. Anning, A. A. and Adusei, M. (2020). An Analysis of Financial Statement Manipulation among Listed Manufacturing and Trading Firms in Ghana. *Journal of African Business*, DOI: 10.1080/15228916.2020.1826856
8. Adusei, M. (2020). Female on boards and the risk-taking of microfinance institutions: The moderating role of outreach. *Corporate Board: Role, Duties and Composition*, 19-34.
9. Adusei, M. and Obeng, E.Y.T. (2019). Board Gender Diversity and the Capital Structure of Microfinance Institutions: A global analysis. *The Quarterly Review of Economics and Finance*, 1-12. <https://doi.org/10.1016/j.qref.2018.09.006>
10. Adusei, M. (2019). The finance-growth nexus: Does Risk Premium Matter? *International Journal of Finance and Economics*, 1-16, DOI: 10.1002/ijfe.1681
11. Aawaar, G., Boamah, N. A. and Akotey, J. O. (2020). Investor herd behaviour in Africa's emerging and frontier markets. *International Journal of Financial and Economics Issues*, 10(6): 194-205.
12. Boamah, N. A., Akotey, J. O. and Aawaar, G. (2019). Economic engagement and within emerging markets integration. *Research in International Business and Finance*, 52(2020): 1-11.
13. Boamah, N. A. (2019). Investment, financial sector development and the degree of emerging markets integration. *Journal of Financial Economic Policy*, 12(1): 45-64.
14. Aawaar, G., Boamah, N. A. and Akotey, J. O. (2020). Investor herd behaviour in Africa's emerging and frontier markets. *International Journal of Financial and Economics Issues*, 10(6): 194-205.
15. Boamah, N. A., Akotey, J. O. and Aawaar, G. (2019). Economic engagement and within emerging markets integration. *Research in International Business and Finance*, 52(2020): 1-11.

16. Awo, J. P. and Akotey, J. O. (2019). The financial performance of rural banks in Ghana: The generalized method of moments approach World Journal of Entrepreneurship, Management and Sustainable Development, <https://doi.org/10.1108/WJEMSD-02-2018-0012>.

DEPARTMENT OF SUPPLY CHAIN AND INFORMATION SYSTEMS

ACADEMIC STAFF

Associate Professor

D. Asamoah PhD, MBA, BSc (Kumasi)

Senior Lecturers

A. S. Muntaka PhD (Kumasi), MPA, MSc (US), BA (Kumasi)

#J. Annan PhD, MA, (Kumasi), PGDE (Cape Coast), BSc (Kumasi)

K. O. Kwateng MSc, MBA, BA (Kumasi)

K. Obiri-Yeboah MSc, BSc (US)

K. A. Boateng PhD, MSc (UK), BA (Kumasi)

Lecturers

E. K. Quansah MSc (Sweden), BSc (Kumasi)

D. Nuertey PhD, MBA, BA (Kumasi)

J. F. Manso PhD, MBA (Kumasi), B.Ed (Winneba)

J. S. Marfo PhD (Legon), MBA, BSc (Kumasi)

M. Owusu-Bio PhD, MBA, BSc (Kumasi)

S. Nkrumah PhD (Kumasi), MBA (UK), BSc (Kumasi)

D. Essuman PhD, MBA, BSc (Kumasi)

Part-Time Lecturers

J. Kuutuome MPhil, BSc (Kumasi), HND (Takoradi)

S. Opoku-Mensah	MSc, BSc, HND (Kumasi)
P. A. Asamany	MPhil, BSc. (Kumasi)
E. Bulley	MBA, B.Ed, BSc (Kumasi)
B. O. Anim	MPhil, BSc (Kumasi)
B. Agyei-Owusu	MBA, BSc (Kumasi)
B. C. Osei	MPhil, MSc, BSc (Kumasi)
F. Adomako	MBA, MSc, BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Nkrumah, S.K., Asamoah, D., Annan, J. and Agyei-Owusu, B. (2020). Examining green capabilities as drivers of green supply chain adoption: Insights from a Sub-Saharan African country. *Management Research Review*, 44(1): 110-127.
2. Asamoah, D., Agyei-Owusu, B., and Ashun, E. (2020). Social network relationship, supply chain resilience and customer-oriented performance of small and medium enterprises in a developing economy. *Benchmarking: An International Journal*, 27(5): 1793-1813. DOI 10.1108/BIJ-08-2019-0374
3. Dzidzah E., Owusu Kwateng K., and Asante, B. K. (2020). Security Behaviour of Mobile Financial Service Users. *Information and Computer Security*, 28(5): 719-741. <https://doi.org/10.1108/ICS-02-2020-0021>
4. Kwateng, K. O., Okyere, R. O., Ottun, M. O. and Gadah, J. N. (2020). Empirical Analysis of Students' Behavior towards Advance traveler Information Systems. *International Journal of Innovation and Technology Management*, 17(03): 2030001.
5. Frimpong, J. M., Muntaka, A. S., and Entsie, E. (2020). Sustainable Production, Supply – Side Collaboration and Market Performance. *African Journal of Business and Economic Research*, 16(1). <https://doi.org/10.31920/1750-4562/2021/v16n1a12>
6. Essuman, D., Boso, N., & Annan, J. (2020). Operational resilience, disruption, and efficiency: Conceptual and empirical analyses. *International Journal of Production Economics*. <https://doi.org/10.1016/j.ijpe.2020.107762>.
7. Marfo, P.K.T. and Quansah, E. (2020). Factors Influencing the Adoption of E-Ticketing System in the Bus Transport Sector in Ghana. *Journal of Software Engineering and Applications*, 13: 161-178

8. Anin, E.K., Essuman, D., Owusu, H. (2020). How Does Buyer-Seller Information Sharing Affect Procurement Quality Performance? Insight from SMEs in a Developing African Economy. *International Journal of Quality and Service Sciences*. DOI 10.1108/IJQSS-03-2020-0046
9. Asamoah, D., Agyei-Owusu, B., Andoh-Baidoo, F.K., and Ayaburi, E. (2020). Inter-organizational systems use and supply chain performance: mediating role of supply chain management capabilities. *International Journal of Information Management*, <https://doi.org/10.1016/j.ijinfomgt.2020.102195>.
10. Ahinful, G. S., Tauringana, V., Essuman, D., Boakye, J. D., Sha'ven, W. B. (2019). Stakeholders Pressure, SMEs Characteristics and Environmental Management in Ghana. *Journal of Small Business and Entrepreneurship*. DOI: 10.1080/08276331.2018.1545890
11. Amedofu, M., Asamoah, D. and Agyei-Owusu, B. (2019). Effect of supply chain management practices on customer development and start-up performance. *Benchmarking: An International Journal*, 26(7): 2267-2285. <https://doi.org/10.1108/BIJ-08-2018-0230>.
12. Nkrumah, S. K., Apam, J. and Boadu, P. (2020). Enhancing Operational Performance Through Supply Chain Management Practices: Evidence from Firms in The Petroleum Downstream. *Journal of Economics, Management and Trade*, 26(3): 34-36.
13. Nkrumah, S. K., Appiah, O. L., Brobbey-Awuah, S. (2019). Impact of Strategic Sourcing on Firm Performance. *Benchmarking: The International Journal of Business and Management*, DoI No:1024940/theijbm/2019/v7/17/BM1907-035.

BOOK CHAPTER

1. Asamoah D., Agyei-Owusu B., Andoh-Baidoo F.K., and Ayaburi E. (2019). Effect of Inter-Organizational Systems Use on Supply Chain Capabilities and Performance. In: Dwivedi Y., Ayaburi E., Boateng R., Effah J. (eds) *ICT Unbounded, Social Impact of Bright ICT Adoption*. TDIT 2019. IFIP Advances in Information and Communication Technology, vol 558. Springer, Cham. https://doi.org/10.1007/978-3-030-20671-0_20

CONFERENCE PAPERS/PROCEEDINGS

1. Agyei-Owusu B. and Okpoti E. (2020). The Relationship between Leadership Commitment, Environmentally Sustainable Operations and Firm Performance: Evidence from a Survey of Ghanaian Manufacturing Firms. In *Proceedings of the 1st International Conference on Industrial*

Technology – Volume 1: ICONIT, ISBN 978-989-758-434-3, pp. 260-265, DOI:
10.5220/0009445902590264

COLLEGE OF SCIENCE

DEPARTMENT OF BIOCHEMISTRY AND BIOTECHNOLOGY

ACADEMIC STAFF

Professor:

ϕV. P. Dzogbefia (Mrs.) PhD (US), BSc (Kumasi)

Associate Professor:

#K. Nsiah PhD, MPhil, BSc (Kumasi)

#F. K. N. Arthur PhD (UK), BSc (Kumasi)

A. Y. Tetteh (Mrs.) PhD (S.A.), MSc (Canada), BSc (Kumasi)

ϕP. Twumasi PhD., MSc (Netherlands), BSc (Kumasi)

Senior Lecturers:

#F. O. Mensah (Mrs.) MPhil (UK), BSc (Kumasi)

H. D. Zakpaa PhD, MSc (Japan), BSc (Legon)

C. K. Firempong PhD (China), MPhil (Kumasi), BSc (Legon)

F. C. Mills-Robertson PhD, MSc, BSc (Legon)

R. A. Annan PhD, MSc (UK), BSc (Tamale)

C. Larbie PhD, BSc (Kumasi)

S. P. Salifu PhD, MSc (UK), BSc (Turkey)

Lecturers:

C. Apprey PhD, BSc., Cert. (Kumasi), Dip (UK)

A. Kwarteng* PhD (Germany), MPhil, BSc (Kumasi)

E. E. Mak–Mensah MPhil, BSc (Legon)

E. O. Terlabi** MPhil, BSc (Kumasi)

M. A. Tandoh PhD (US), MPhil (Legon), BSc (Kumasi)

M. Adjepong	PhD (US), MPhil., BSc (Kumasi)
L. J. J. Gowans	PhD., MPhil., BSc (Kumasi)
A. A. Larbi	PhD., MPhil., BSc (Kumasi)

Assistant Lecturers:

C. A. Appiah	MPhil (Legon), BSc (Kumasi)
--------------	-----------------------------

Part-Time Lecturers:

J. A. Bentil	PhD (Denmark), MSc., BSc (Kumasi)
J. K. Dadson	MPhil., BSc (Kumasi)
K. A. Afrifa	PhD., MSc., BSc (Legon)
J. K. Ataki	MSc (UK), BSc (Cape Coast)
A. Antwi-Boasiako	MSc (UK), BSc (Italy)
D. Asante-Apeatu	MSc., BSc (Russia)

ϕ *Post-Retirement Part-Time*

On Contract

* *On Study Leave*

§ *On Sabbatical Leave*

** *On Secondment (MP)*

ARTICLES PUBLISHED IN REFEREED JOURNAL

1. Abdul-Mumeen Iddrisu, Zakpaa Hilary D, Felix Charles Mills-Robertson, Lowor Samuel T (2020). Vitellaria paradoxa fruit pulp bioethanol production potential: A review. African Journal of Biochemistry Research, 14(2): 33-45. <https://doi.org/10.5897/AJBR2019.1070>
2. Abukari, Z., Okonu, R., Nyarko, S. B., Lo, A. C., Dieng, C. C., Salifu, S. P., Gyan, B, A., Lo, E. and Amoah, L. E. (2019). The Diversity, Multiplicity of Infection and Population Structure of P. falciparum Parasites Circulating in Asymptomatic Carriers Living in High and Low Malaria Transmission Settings of Ghana. Genes, 10(6): 434. doi:10.3390/genes10060434
3. Acheampong, A.O., Addison, W., Obiri-Yeboah, S., Amuasi, A., Gowans, L.J.J., Newman-Nartey, M., Sabbah, D.K., Pare, P., Selormey, R., Baffour, G., Larmie, R.N.L., Oyakilome, S., Atuwu-Ampoh, R., Olesu, J., Gyimah, N.T., and Donkor, P. (2019). The Rule of “10’s” in the Management of Cleft Lip and

- Palate Children: The Komfo Anokye Teaching Hospital Experience. *J Clin Res Den.*, 2(1): 1-4.
4. Afrifa, D., Nsiah, K., Afriyie, A. C. and Moses, M. (2019). Incidence of Cardiovascular Disease Risk Factors Among Football Players in Ashanti Region of Ghana. *International Journal of Sport Studies for Health*, 2(2): e98153. DOI: 10.5812/intjssh.98153
 5. Afrifa, D., Nsiah, K., Appiah C.A. and Moses, O.M. (2020). Dietary Intake and Body Composition Characteristics of National Football League Players. *International Journal of Sport Studies for Health*, 3(1): e104103. DOI: 10.5812/intjssh.104103
 6. Agyapong, N. A. F., Annan, R. A., Apprey, C., & Aduku, L. N. E. (2020). Body Weight, Obesity Perception, and Actions to Achieve Desired Weight among Rural and Urban Ghanaian Adults. *Journal of Obesity*, 2020, Article ID 7103251, <https://doi.org/10.1155/2020/7103251>
 7. Agyapong, N. A. F., Annan, R. A., Apprey, C., Aduku, L. N., & Swart, E. C. (2020). The association between dietary consumption, anthropometric measures and body composition of rural and urban Ghanaian adults: a comparative cross-sectional study. *BMC Nutrition*, 6: 1-12. <https://doi.org/10.1186/s40795-020-00339-6>
 8. Ahenkorah, B., Nsiah, K., Baffoe, P., Ofosu, W., Gyasi, C., and Owiredo, E-W. (2020). Parasitic infections among pregnant women at first antenatal care visit in northern Ghana: A study of prevalence and associated factors. *PLoS One* 15(7): e0236514. <https://doi.org/10.1371/journal.pone.0236514>
 9. Akowuah, E. and Nsiah, K. (2019). The Pattern of Malaria Infection in and Around the Kwame Nkrumah University of Science and Technology (KNUST) Campus. *Acta Scientific Medical Sciences* 3(3): 132-137.
 10. Alade A, Buxo-Martinez CJ, Mossey PA, Gowans LJJ, Eshete MA, Adeyemo WL, Naicker T, Awotoye WA, Adeleke C, Busch T, Toraño AM, Bello CA, Soto M, Soto M, Ledesma R, Marquez M, Cordero JF, Valle LML-D, Salcedo MI, Debs N, Li M, Petrin A, Olotu J, Aldous C, Olutayo J, Ogunlewe MO, Abate F, Hailu T, Mohammed I, Gravem P, Deribew M, Gesses M, Hassan M, Pape J, Adeniyi OA, Obiri-Yeboah S, Arthur FKN, Oti AA, Olatosi O, Miller SE, Donkor P, Dunnwald MM, Marazita ML, Adeyemo AA, Murray JC, Butali A. (2020). Non-Random Distribution of Deleterious Mutations in the DNA and Protein Binding Domains of IRF6 are Associated with Van Der Woude Syndrome. *Mol Genet Genomic Med.*, 8: e1355. Doi.org/10.1002/mgg3.1355.
 11. Alsulami, S., Nyakotey, D.A., Dudek, K., Bawah, A.M., Lovegrove, J.A., Annan, R.A., Ellahi, B. and Vimalaswaran, K.S. (2020). Interaction between Metabolic

Genetic Risk Score and Dietary Fatty Acid Intake on Central Obesity in a Ghanaian Population. *Nutrients*, 12(7): 1906. <https://doi.org/10.3390/nu12071906>

12. Annan, R. A., Sowah, S. A., Apprey, C., Agyapong, N. A. F., Okonogi, S., Yamauchi, T., & Sakurai, T. (2020). Relationship between breakfast consumption, BMI status and physical fitness of Ghanaian school-aged children. *BMC Nutrition*, 6(1): 1-9. <https://doi.org/10.1186/s40795-020-00344-9>
13. Annan, R.A., Aduku, L.N.E., Kyei-Boateng, S., Yeun, H.M., Pickup, T., Pulman, A., Monroy-Valle, M., Ashworth-Hill, A., Jackson, A.A. and Choi, S., (2020). Implementing effective e-Learning for scaling up global capacity building: findings from the malnutrition elearning course evaluation in Ghana. *Global Health Action*, 13(1): 1831794. <https://doi.org/10.1080/16549716.2020.1831794>
14. Annan, R.A., Apprey, C., Asamoah-Boakye, O., Okonogi, S., Yamauchi, T. and Sakurai, T. (2019). The relationship between dietary micronutrients intake and cognition test performance among school-aged children in government-owned primary schools in Kumasi metropolis, Ghana. *Food Science & Nutrition*, 7(9): 3042-3051. <https://doi.org/10.1002/fsn3.1162>
15. Antwi, C., Mensah, P.A., Sakyi, S.A., Arthur, F.K.N., Frimpong, Y.O., Simpah Anim Jnr, A. and Baah, J. (2020). Direct feed microbials and their influence on blood biochemistry, immunology of lambs of *Escherichia coli* count. *Biomed. J. Sci Tech. Res.* Doi: 10.26717/BJSTR.2020.26.004401
16. Appiah, C.A., Afriyie, E.O., Hayford, F.E.A., and Frimpong, E. (2020). Prevalence and lifestyle-related risk factors of metabolic syndrome among taxi drivers in a metropolitan city in Ghana. *Pan African Medical Journal*. 36: 136. doi: 10.11604/pamj.2020.36.136.16861
17. Appiah, C.A., Mensah, F.O., Hayford, F.E.A., Awuuh, V.A. and Kpewou, D.E. (2020). Predictors of undernutrition and anemia among children aged 6–24 months in a low-resourced setting of Ghana: a baseline survey. *Journal of Health Research*. <https://doi.org/10.1108/JHR-05-2019-0095>
18. Appiah, C.A., Samwini, A.M., Brown, P.K. Hayford, F.E.A., and Asamoah-Boakye, O. (2020). Proximate composition and serving sizes of selected composite Ghanaian soups. *African Journal of Food Agriculture Nutrition and Development*, 20(3). DOI: 10.18697/ajfand.91.18055
19. Apprey, C., Kalog, G.L., Asamoah-Boakye, O. and Annan, R.A. (2019). Nutritional Status and Non-communicable Diseases in Older Ghanaians. *Journal of Clinical Nutrition & Dietetics*, 5(1): 1-8. DOI: 10.4172/2472-1921.100074

20. Apprey, C., Peprah, M., Annan, R. A., Tandoh, M. A., & Asamoah-Boakye, O. (2020). Borassus aethiopum-Fortified Bread Reduces Metabolic Risk Factors among Cardiovascular Disease Outpatients At 37 Military Hospital, Accra: A Pilot Study. *International Journal of Food Science*. <https://doi.org/10.1155/2020/2379061>
21. Apungu, F. K., Apprey, C., Amewu, E. K. A., Ahuno, S. T., & Kwarteng, A. (2019). Nutritional and health status of people living with HIV/AIDS in the eastern region of Ghana. *Nutrition & Food Science*, 50(4): 765-783. <https://doi.org/10.1108/NFS-05-2019-0145>
22. Ayensu, J., Annan, R., Lutterrodt, H., Edusei, A. and Peng, L.S. (2020). Prevalence of anaemia and low intake of dietary nutrients in pregnant women living in rural and urban areas in the Ashanti region of Ghana. *Plos One*, 15(1): p.e0226026. <https://doi.org/10.1371/journal.pone.0226026>
23. Ayensu, J., Larbie, C., Annan, R.A., Lutterrodt, H., Edusei, A., Loh, S.P., & Asiamah, E.A. (2020). Palm Weevil Larvae (*Rhynchophorus phoenicis* Fabricius) and Orange-Fleshed Sweet Potato-Enriched Biscuits Improved Nutritional Status in Female Wistar Albino Rats. *Journal of Nutrition and Metabolism*, Article ID 8061365, 8 pages. <https://doi.org/10.1155/2020/8061365>
24. Blankson, G.K., Mills-Robertson, F.C. and Oforu, I.W. (2019). Survey of occurrence levels of Aflatoxins in selected locally processed cereal-based foods for human consumption from Ghana. *Food Control*, 95(2019): 170-175. <https://doi.org/10.1016/j.foodcont.2018.08.005>
25. Donkor, S., Larbie, C., Komlaga, G., & Emikpe, B. O. (2020). Toxicity of the Hydroethanolic Leaves Extract of *Duranta erecta* L. in Rat Models. *Journal of Pharmaceutical Research International*, 32(6): 9-18. <https://doi.org/10.9734/jpri/2020/v32i630441>
26. Donkor, S., Larbie, C., Komlaga, G., & Emikpe, B.O. (2019). Phytochemical, Antimicrobial, and Antioxidant Profiles of *Duranta erecta* L. Parts. *Biochemistry Research International*, (Article ID 8731595 11 pages). <https://doi.org/10.1155/2019/8731595>
27. Feng, Y., Wan, J., Chen, B., Zhu, Y., Firempong, C.K., Feng, C., Imai, T., Xu, X. and Yu, J., (2020). In Vitro Metabolic Profiling of Periplogenin in Rat Liver Microsomes and its Associated Enzyme-kinetic Evaluation. *Current Pharmaceutical Analysis*, 16(5): 504-512. DOI: 10.2174/1573412915666190101101710
28. Genfi, A.K.A., Larbie, C., Emikpe, E.O., Oyagbemi, A.A., Firempong, C.K., & Adjei, C.O. (2020). Modulation of Oxidative stress and Inflammatory Cytokines as therapeutic mechanisms of *Ocimum americanum* L. extract in Carbon tetrachloride and acetaminophen-induced toxicity

- in rats. *Journal of Evidence-Based Integrative Medicine*, 25: 1-13. DOI: 10.1177/2515690X20938002
29. Gyimah, L.A., Annan, R.A., Apprey, C., Edusei, A.K., Aduku, L.E., Asamoah-Boakye, O., Azanu, W. and Lutterodt, H. (2020). Dietary diversity and its correlates among pregnant adolescent girls in Ghana. medRxiv. <https://doi.org/10.1101/2020.08.06.20169383>
 30. Harrison, J.J.E.K., Ayine-Tora, M.D., Appiagyei, B.; Mills-Robertson, F.C., Asomaning, W.A., Achel, D.G., Ishida, H., and Kingsford-Adaboh, R. (2019). Crystal structure and in vitro antimicrobial activity studies of Robustic acid and other Alpinumn isoflavones isolated from *Milletia thonningii*, *Zeitschrift für Kristallographie – Crystalline Materials*, 234(4): 229-235. DOI: 10.1515/zkri-2018-2052
 31. Kumuthini, J., Zass, L., Panji, S., Salifu, S. P., Kayondo, J. K., Nembaware, V., Mbiyavanga, M., Olabode, A., Kishk, A., Wells, G., Mulder, N. J. and as members of the Sustainability and Outreach Work Package of the H3ABioNet Consortium (2019). The H3ABioNet helpdesk: an online bioinformatics resource, enhancing Africa's capacity for genomics research. *BMC Bioinformatics*, 20(1): 741. doi:10.1186/s12859-019-3322-3
 32. Kwarteng, A., Arthur, Y.D., Yamba, J.K. Sylverken, A.A., Kini, P., Ahuno, S.T. & Owusu-Dabo, E. (2019). Influence of seasonal variation on reported filarial attacks among people living with lymphedema in Ghana. *BMC Infect Dis.*, 19: 442. <https://doi.org/10.1186/s12879-019-4084-2>
 33. Kwarteng, A., Asiedu, E., Sakyi, S.A., and Asiedu, S.O. (2020). Targeting the SARS-CoV2 nucleocapsid protein for potential therapeutics using immuno-informatics and structure-based drug discovery techniques. *Biomedicine & Pharmacotherapy*, 20: 110914. <https://doi.org/10.1016/j.biopha.2020.110914>
 34. Larbie, C., Emikpe, B., Oyagbemi, A., Nyarko, R., Jarikre, T., Adjei, C., & Aseidu, E. (2020). *Acalypha wilkesiana* 'inferno' hydroethanolic leaf extract has protective effect on carbon tetrachloride-induced subacute toxicity in animals. *Biomedical Research and Therapy*, 7(5): 3778-3788. <https://doi.org/10.15419/bmrat.v7i5.605>
 35. Larbie, C., Emikpe, B.O., Akpor, S.A. Adams, E., Adjei, C. O., Oyagbemi, A. A. & Jarikre, T. A. (2020). Ameliorative effect of extract of *Tecoma stans* (L.) Juss. ex kunth leaves against CCl₄ – and acetaminophen—induced liver damage in rats. *Advances in Traditional Medicine*. <https://doi.org/10.1007/s13596-020-00465-3>.
 36. Larbie, C., Emikpe, B.O., Oyagbemi, A.A., Jarikre, T.A., & Adjei, C.O. (2020). *Acalypha wilkesiana* 'Inferno' Is Nephroprotective against Gentamicin and

Cisplatin: Biochemical, Histological and Immunochemical Evidence. Iranian Journal of Toxicology, 14 (4). <http://ijt.arakmu.ac.ir/article-1-821-en.html>

37. Larbie, C., Nyarko, R.A., Oyagbemi, A.A., Jarikre, T.A., Adjei, C.O., Aseidu, E.B., & Emikpe, B.O. (2020). Biochemical and anti-inflammatory effect of *Ocimum americanum* Linn. extracts on gentamicin – and cisplatin-induced nephrotoxicity in rats. *Advance Traditional Medicine*, DOI: 10.1007/s13596-020-00501-2
38. Lorinda, O.T., Aidoo, R., Yankyera, K.O., Apprey, C., Annan, R.A. et al. (2020). Imported Chicken Value Chain in an Obesogenic Ghanaian Food Environment: Knowledge, Practices and Perceptions of Actors. *J Food Sci Nutr*, 6: 071. DOI: 10.24966/FSN-1076/100071
39. Nsiah, K., Bahaa, B., Oppong Afrane, B. and Acheampong, E. (2020). Evaluation of red blood cell count as an ancillary index to hemoglobin level in defining the severe falciparum malarial anemia among Ghanaian children in low-resource communities. *Heliyon*, 6(3): 04605. doi: 10.1016/j.heliyon.2020.e04605
40. Nsiah, K., Bahaah, B., Oppong Afranie, B., Koffie, S., Akowuah, E. and Donkor, S. (2019). Oxidative Stress and Hemoglobin Level of Complicated and Uncomplicated Malaria Cases Among Children; A Cross Sectional-Study in Kumasi Metropolis, Ghana. *Journal of Tropical Medicine*, (Article ID 8479076, 6 pages). DOI: 10.1155/2019/8479076
41. Nyakotey, D. A., Ananga, A. S., & Apprey, C. (2020). Assessing physical activity, nutrient intake and obesity in middle-aged adults in Akuse, Lower Manya Krobo, Ghana. *Journal of Health Research*. <https://doi.org/10.1108/JHR-03-2020-0068>
42. Owojuyigbe, O. S., Firempong, C. K., Komlaga, G., Larbie, C., & Emikpe, B. O. (2020). Phytochemical, Antioxidant and Safety Evaluation of *Hura crepitans* (L.) Stem Bark Hydroethanolic Extract in Animals. *European Journal of Medicinal Plants*, 31(8): 1-16. <https://doi.org/10.9734/ejmp/2020/v31i830255>
43. Owojuyigbe, O. S., Firempong, C. K., Larbie, C., Komlaga, G., & Emikpe, B. O. (2020). Hepatoprotective Potential of *Hura crepitans* L.: A Review of Ethnomedical, Phytochemical and Pharmacological Studies. *Journal of Complementary and Alternative Medical Research*, 9(2): 1-10. <https://doi.org/10.9734/jocamr/2020/v9i230136>
44. Owojuyigbe, O.S., Larbie, C., Firempong, C.K., Komlaga, G., Emikpe, B.O., and Otuechere, C.A. (2020). Extracts of *Hura crepitans* L. stem bark attenuate liver injury and inflammation induced by CCl₄ in rats. *Comparative Clinical Pathology*. <https://doi.org/10.1007/s00580-020-03172-2>

45. Salifu, S.P., Bukari, A.A., Frangoulidis, D. and Wheelhouse, N. (2019). Current perspectives on the transmission of Q fever: Highlighting the need for a systematic molecular approach for a neglected disease in Africa. *Acta Tropica*, 193: 99-105. <https://doi.org/10.1016/j.actatropica.2019.02.032>
46. Sweat, Y.Y., Sweat, M., Mansaray, M., Cao, H., Eliason, S., Adeyemo, W.L., Gowans, L.J.J., Eshete, M.A., Anand, D., Chalkley, C., Saadi, I., Lachke, S.A., Butali, A., and Amendt BA. (2019). Six2 regulates Pax9 expression, palatogenesis and craniofacial bone formation. *Developmental Biology*, 458(2020): 246–256. Doi:10.1016/j.ydbio.2019.11.010.
47. Sylverken, A.A., Owusu-Dabo, E., Kwarteng, A. et al. (2019). Use of social media in a national Tuberculosis Drug Resistance Survey: lessons from the first anti-tuberculosis drug resistance survey in Ghana. *AAS Open Res.*, 2: 4. <https://doi.org/10.12688/aasopenres.12920.1>

CONFERENCE PRESENTATIONS

1. Collins Afriyie Appiah, Emmanuel Frimpong, Edward Opoku Afriyie (2021). Lifestyle-related risk factors of metabolic syndrome among commercial taxi drivers around KNUST campus. Abstract accepted for International Congress for Dietetics 2021, Cape Town, South Africa.
2. Collins Afriyie Appiah, George Cudjoe, Seth Obiri-Yeboah, Charles Apprey (2021). Nutrition knowledge, dietary habit and lipid profile of undergraduate students on KNUST campus. Abstract accepted for International Congress for Dietetics 2021, Cape Town, South Africa.
3. Collins Afriyie Appiah, Priscilla Adjei, Brown Mendel (2021). Determination of sodium, potassium, calcium and magnesium contents of restaurant vended lunch meals on KNUST campus. Abstract accepted for International Congress for Dietetics 2021, Cape Town, South Africa.
4. Gowans LJJ, Arthur FKN, Busch TD, Murray JC, Donkor P, Sobreira N, Butali A (2020). Co-occurrence of Orofacial Clefts and Clubfoot among Ghanaians: Whole Exome Sequencing implicates Multiple Syndromes and Genes. Poster/Oral Presentations, The 61st McKusick Short Course on Human and Mammalian Genetics and Genomics, The Jackson Laboratory, Bar Harbor, Maine, USA, Virtual Event, 20-30 July.
5. Gowans LJJ. (2020). Elucidating Cleft Etiology Employing Multiplex and Twin Families (EICEEMuTF). Oral Presentation, Noncommunicable Diseases Network Meeting organized by Fogarty International Center (FIC) of the National Institutes of Health (NIH), Virtual Event, 21-23 July.

6. Olotu J, Duncan KM, Mossey PA, Wang T, Naicker T, Busch T, Awotoye W, Alade, A, Adeyemo WL, Gowans LJJ, Eshete MA, Adeleke C, Olatosi O, Li M, Miller SE, Hassan M, Pape J, Buxo-Martinez CJ, Adeyemo A, Murray JC, Cornell RA, Butali A. (2020). Functional and Sequencing Studies Identify ZNF750 as CPO Candidate Gene. Oral Presentation, 2020 IADR/AADR/CADR General Session & Exhibition, Washington, D.C., USA, 18-21 March.
7. Alade A, Gowans LJJ, Eshete MA, Adeyemo WL, Naicker T, Awotoye WA, Adeleke C, Busch T, Li M, Olotu J, Hassan M, Pape J, Adeniyi OA, Olatosi O, Miller S, Butali A. (2020). Non-Random Distribution of Deleterious Mutations In IRF6 Associated With Van Der Woude Syndrome. Poster Presentation, 2020 IADR/AADR/CADR General Session & Exhibition, Washington, D.C., USA, 18-21 March.
8. Gowans LJJ, Donkor P, Obiri-Yeboah S, Oti AA, Arthur FKN, Busch T, Murray JC, Sobreira N, Butali A. (2019). Orofacial Clefts with Clubfoot Phenotypes in an African Population: Whole Exome Sequencing implicates Multiple Syndromes and Genes. Poster Presentation (Presenter), American Society of Human Genetics (ASHG) Annual Conference, Houston, Texas, USA, 15-19 October.
9. Salifu, S.P. (2020). What doesn't kill you makes you stronger: Genetics of COVID-19 impact on health and Disease. GSA Webinar 2020, KNUST 28-29th June.

DEPARTMENT OF CHEMISTRY

ACADEMIC STAFF

Associate Professors:

#J.A.M. Awudza	PhD (UK), MPhil., BSc (Kumasi)
#E. Adei	PhD (USA), MPhil., BSc (Kumasi)
S.O. Acquah**	PhD (Canada), BSc (Kumasi)
#R.B. Voegborlo	PhD (Kumasi), MPhil., BSc (Legon)
Osei Akoto	PhD (Kumasi), MPhil., BSc (Legon)
Godfred Darko	PhD (South Africa), MSc (Kumasi), BSc (Cape Coast)
M.A. Nkansah	PhD (Norway), MSc., BSc (Kumasi)

E.E. Kwaansa-Ansah	PhD., MSc., BSc (Kumasi)
N.O. Boadi	PhD., MSc., BSc (Kumasi)
##N.K. Asare-Donkor	PhD., MSc., BSc (Kumasi)

Senior Lecturers:

A. Acheampong	PhD (France), MSc (Kumasi), BSc (Cape Coast)
R. Tia	PhD., BSc (Kumasi)
J.K. Mensah	PhD (USA), MSc (Norway), BSc (Kumasi)
L.S. Borquaye	PhD (USA), BSc (Cape Coast)
M. Badu	PhD., MSc., BSc (Kumasi)
J. Apau	MPhil (Cape Coast), BSc (Kumasi)
E.S. Agorku	PhD (South Africa), MSc., BSc (Kumasi)

Lecturers:

C.O. Akoto	PhD (USA), BSc (Kumasi)
C.R. Kwawu	PhD., BSc (Kumasi)
M. Baah-Mensah	PhD., MSc., BSc (Kumasi)
G. Amenuvor	PhD., MSc (SA), BSc (Kumasi)
F. Opoku	PhD., MSc, (SA), BSc(Kumasi)

***Part-time*

On contract

Retired

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Abagale, S. A., Twumasi, S. K., Awudza, J. A. M. (2020). Chemical Analyses of Parkia biglobosa Fruit Husk Extract and Lateritic Soil Used in Ethnobotanical Preparation of Mud Wall Plaster in Some West African Countries. AASCIT Journal of Chemistry, 6(2): 14-19.
2. Abare-Jen, L., Mensah, J.K., Borquoye, S. L. (2020). Evaluation of the Phytochemistry, Antimicrobial and Antioxidant Efficacy of the Stem Bark Extracts of Pterocarpusmildbreadii IOSR Journal of Applied Chemistry, 13(5): 15-20

3. Abare-Jen, L., Mensah, J.K., Borquoye, S. L. (2020). Phytochemical Analysis and Biological Assay of the Stem Bark of *Pterocarpus Santalinoides* in Kumasi, Ghana. *IOSR Journal of Applied Chemistry*, 13(5): 26-31
4. Afu, G., Laryea, M.K., Borquaye, L.S. (2020). Biological Efficacy and Toxicological Evaluation of Ethanolic Extract of *Cassia nodosa* Buch. – Ham. (Leguminosae). *Journal of Chemistry*, Article ID: 3983491.
5. Agorku, E.S., Mamba, B. B., Pandey, A. C. and Mishra, A. K. (2020). Corrigendum to “Sulfur/Gadolinium-Codoped TiO₂ Nanoparticles for Enhanced Visible-Light Photocatalytic Performance”. *Journal of Nanomaterials*, 2020: (Article ID 5975237). <https://doi.org/10.1155/2020/5975237>
6. Akanchise, T., Boakye, S., Borquaye, L.S., Dodd, M. and Darko, G. (2020). Distribution of heavy metals in soils from abandoned dump sites in Kumasi, Ghana. *Scientific African*, 10: e00614.
7. Akoto, C. O., Acheampong, A., Tagbor, P. D., Bortey, K., (2020). Determination of the Antimicrobial and Antioxidant activities of the leaf extracts of *Griffonia simplicifolia*. *Journal of Pharmacognosy and Phytochemistry*, 9(2): 537-545.
8. Akoto, C. O., Acheampong, A., Boakye, Y. D., Naazo, A. A., Adomah D. H. (2020). Anti-inflammatory, Antioxidant and Anthelmintic Activities of *Ocimum basilicum* (Sweet Basil) Fruits. *Journal of Chemistry* (Article ID: 2153534).
9. Akoto, C., Acheampong O., A., Boakye Y. D., Kokloku B. K. and Kwarteng G. (2020). In vitro anthelmintic, anti-inflammatory, antioxidant activities and FTIR analysis of *Sclerocarya birrea*. *Journal of Pharmacognosy and Phytochemistry*, 9(2): 1389-1401.
10. Akoto, O., Gyimah, E., Zhan, Z., Xu H., Nimako, C. (2020). Evaluation of health risks associated with trace metal exposure in water from the Barekese reservoir in Kumasi, Ghana. *Human and Ecological Risk Assessment: An International Journal*, 26: 1134-1148.
11. Akoto, O., Nimako, C., Asante, J., Bailey, D., Bortey-Sam, N. (2020). Spatial distribution, exposure, and health risk assessment of bioavailable forms of heavy metals in surface soils from abandoned landfill sites in Kumasi, Ghana. *Human and Ecological Risk Assessment: An International Journal*, 25(7): 1870-1885.
12. Akuamoah, D. A., Opoku, E., Tia R., Adei, E., (2020). 1,3-Dipolar cycloaddition reaction of indoles with tosyl azide, subsequent dehydroaromatization and ring-opening cascade: a computational study. *Theor Chem Acc.*, 139(138). DOI: 10.1007/s00214-020-02653-5

13. Akuamoah, D. A., Tia, R., Adei, E. (2020). Computational study on the mechanism of the reaction of benzenesulfonyl azides with oxabicyclic alkenes. *Journal of Molecular Modeling*, 26(314): 1-9.
14. Amoah, A., Tia, R., Adei, E. (2020). A DFT mechanistic study on [4 + 3] cycloaddition reactions of oxyallyl cations and five-membered cyclopentadiene derivatives. *Tetrahedron*, 6(36): 131422.
15. Amo-Mensah, J., Darko, G. and Borquaye, L.S. (2020). Anti-Inflammatory and Antioxidant Activities of the Root and Bark Extracts of *Vitex grandifolia* (Verbanaceae). *Scientific African*, 10: e00586.
16. Amponsah, L. O., Dodd, M., Darko, G. (2020). Gastric bioaccessibility and human health risks associated with soil metal exposure via ingestion at an E-waste recycling site in Kumasi, Ghana. *Environmental Geochemistry and Health*. doi: 10.1007/s10653-020-00760-7
17. Aniagyei, A., Kwawu, C., Tia, R., Adei, E. (2020). Permanganyl chloride-mediated oxidation of tetramethylethylene: A density functional theory study. *Journal of Molecular Graphics and Modelling*, 98: 107616
18. Ankar-Brewoo, G. M., Darko, G., Abaidoo, R. C., Dalsgaard, A., Johnson, P. N., Ellis, W. O., Brimer, L. (2020). Dietary Risk Assessment Due to the Consumption of Polycyclic Aromatic Hydrocarbon in Two Commonly Consumed Street Vended Foods. *Polycyclic Aromatic Compounds*, 0(0): 1–11.
19. Ankar-Brewoo, G. M., Darko, G., Abaidoo, R. C., Dalsgaard, A., Johnson, P. N., Ellis, W. O., Brimer, L. (2020). Health risks of toxic metals (Al, Fe and Pb) in two common street vended foods, fufu and fried-rice, in Kumasi, Ghana. *Scientific African*, 7: e00289.
20. Anku, W. W., Agorku, E. S., Oppong, S. O. B., Karikari, A. Y. (2020). MWCNTs attached neodymium doped-ZnO photocatalysts for efficient removal of dyes from wastewater. *SN Applied Sciences*, 2(5): 1-13.
21. Anyimah-Ackah, E., Ofosu, I. W., Lutterrodt, H. E., Darko, G. (2019). Exposures and risks of arsenic, cadmium, lead, and mercury in cocoa beans and cocoa-based foods: A systematic review. *Food Quality and Safety*, 3: 1–8.
22. Anyimah–Ackah, E., Ofosu, I. W., Lutterrodt, H. E., Darko, G. (2020). Consumer Characteristics and Consumption Analytics of Frequently Consumed Food Categories in Mining Areas. *Academic Journal of Life Sciences*, 6(65): 39–52.
23. Apau, J., Acheampong, A., Adua, E., (2018). Exposure to bisphenol A, bisphenol F, and bisphenol S can result in obesity in human body. *Cogent Chemistry*, 4: 1506601

24. Apau, J., Sefah, W., Adua, E. (2020). Human contact with phthalates during early life stages leads to weight gain and obesity. *Cogent Chemistry*, 6(1): 1815273. <https://doi.org/10.1080/23312009.2020.1815273>
25. Appiah-Adjei, E. K., Baidu, E. E., Adjei, K. A., Nkansah, M.A. (2019). Potential heavy metal pollution of soils from artisanal automobile workshops: the case of Suame Magazine, Ghana. *Environmental Earth Science* 3:78:62.
26. Arhin, G., Adams, A. H., Opoku, E., Tia, R., Adei, E., (2019). 1, 3-Dipolar cycloaddition reactions of selected 1,3-dipoles with 7-isopropylidenenorbornadiene and follow-up thermolytic cleavage: A computational study. *Journal of Molecular Graphics and Modelling*, 92: 267-279.
27. Asare-Donkor, N.K., Adimado, A. A. (2020). Groundwater Quality Assessment in the Northern and Upper East Regions of Ghana. *Environmental Earth Sciences*, 79: 205.
28. Asare-Donkor, N. K., Amissah, A. A. (2019). Determination of Trace Elements in Some Selected Broiler Chickens in the Ashanti Region of Ghana. *Acta Scientific Pharmaceutical Sciences*, 4(1): 32-37. DOI: 10.31080/ASPS.2020.04.0459
29. Asare-Donkor, N. K., Appiah, J. K., Torve, V. Voegborlo, R. B., Adimado, A. A. (2020). Formaldehyde exposure and its potential health risk in some beauty salons in Kumasi metropolis. *Journal of Toxicology*, (Article ID: 8875167). <https://doi.org/10.1155/2020/8875167>
30. Asare-Donkor, N. K., Boakye-Agyemang, D., Torve, V., Voegborlo, R. B., Adimado, A. A. (2020). Occupational Exposure of Formaldehyde at Some Mortuaries in the Ashanti Region of Ghana. *J Toxicol Cur Res.*, 4: 014
31. Asare-Donkor, N. K., Boakye-Agyemang, D., Voegborlo, R. B., Adimado, A. A. (2019). Assessment of Formaldehyde Levels and Its Health Effects in Some Selected Residential Homes and Offices in Ashanti Region, Ghana *Journal of Multidisciplinary Engineering Science Studies*, 5(8).
32. Azanu, D., Jørgensen, S. E., Darko, G., Styrislave, B., Abaidoo, R. C. (2020). Antibiotic Uptake by Plant Model. *Environmental Modeling and Assessment*, 25(4): 545–553.
33. Badu, M., Pedavoah, M. M., and Dzaye, I. Y. (2020). Proximate composition, antioxidant properties, mineral content and anti-nutritional composition of *Sesamum indicum*, *Cucurmeropsis edulis* and *Cucurbita pepo* seeds grown in the Savannah regions of Ghana. *Journal of Herbs, Spices & Medicinal Plants*, 26(4): 329-339. DOI: 10.1080/10496475.2020.1747581

34. Boadi, N.O., Saah, S.A. and Awudza, J.A. (2020). Synthesis of a Novel Single-Source Precursor for the Production of Lead Chalcogenide Thin Films. *Journal of Chemistry*, 2020: 1-7.
35. Boadi, N.O., Saah, S.A., Helliwell, M. and Awudza, J.A.M. (2019). "Hot-Injection Synthesis of PbE (E= S, Se) Nanoparticles from Dichalcogenoimidophosphinato Lead (II) Complexes", *ChemistrySelect*, Wiley Online Library, 4(47): 13908–13911.
36. Borquaye, L. S., Doetse, M. S., Baah, S. O. and Mensah, J. A. (2020). Anti-inflammatory and anti-oxidant activities of ethanolic extracts of *Tamarindus indica* L. (Fabaceae). *Cogent Chemistry*, 6(1): 1743403.
37. Borquaye, L. S., Laryea, M. K., Gasu, E.N., Boateng, M.A., Baffour, P.K., Kyeremateng, A. and Doh, G. (2020). Anti-inflammatory and antioxidant activities of extracts of *Reissantia indica*, *Cissus cornifolia* and *Grosseria vignei*. *Cogent Biology*, 6(1): 1785755.
38. Borquaye, L. S., Saah, S. A., Adu-Poku, D., Adu-Gyamfi, L., Bitian, K. and Bambil, W. (2020). Anti-inflammatory, antioxidant and total phenolic content of the ethanolic extracts of *Celtis africana* Burm. f. *Current Science Perspective*, 6(3): 43-49.
39. Borquaye, L.S., Gasu, E.N., Ampomah, G.B., Kyei, L.K., Amarah, M.A., Mensah, C.N., Nartey, D., Commodore, M., Adomako, A.K., Acheampong, P. and Mensah, J.O. (2020). Alkaloids from *Cryptolepis sanguinolenta* as Potential Inhibitors of SARS-CoV-2 Viral Proteins: An In Silico Study. *BioMed Research International*, 2020: 5324560. DOI: 10.1155/2020/5324560
40. Botchway C. H., Tia, R., Adei, E., O'Malley, A. J., Dzade, N. Y., Hernandez-Tamargo, C., de Leeuw, N. H. (2020). Influence of Topology and Brønsted Acid Site Presence on Methanol Diffusion in Zeolites Beta and MFI. *Catalysts*, 10(11): 1342. <https://doi.org/10.3390/catal10111342>
41. Botchway, C.H., Tia, R., Adei, E., Dzade, N., de Leeuw, N. H. (2020). H-FER-Catalysed Conversion of Methanol to Ethanol and Dimethyl Ether: A First-Principles DFT Study. *South African Journal of Chemistry*, ISSN 0379-4350
42. Danu, B. Y., Agorku, E. S., Ampong, F. K., Awudza, J. A. M., Torve, V., Caleb, Amponsah R., Quaye, N. M., Onoyivwe, M. A., Osifo, P. O., Suprakas, S. R. (2020). FeS Encapsulated Chitosan Graft Polyacrylamide Nanocomposite for the Uptake of Model Anionic Eosin Y from Water: Isotherm, Kinetics and Equilibrium Studies. *Research Square*, DOI: 10.21203/rs.3.rs-30309/v1
43. Darko, G., Adjei, S., Nkansah, M.A., Borquaye, L.S., Boakye, K.O. and Dodd, M. (2020). Accumulation and bioaccessibility of toxic metals in root tubers and soils from gold mining and farming communities in the Ashanti region

of Ghana. *International Journal of Environmental Health Research*, pp. 1-11.
<https://doi.org/10.1080/09603123.2020.1772203>

44. Fouladgar, M., Karimi-Maleh, H., Opoku, F., Govender, P.P. (2020). Electrochemical anticancer drug sensor for determination of raloxifene in the presence of tamoxifen using graphene-CuO-polypyrrole nanocomposite structure modified pencil graphite electrode: Theoretical and experimental investigation. *Journal of Molecular Liquids*, 311(2020): 113314.
45. Gyamfi, O., Sorenson, P. B., Darko, G., Ansah, E., Vorkamp, K., Bak, J. (2020). Contamination, Exposure and Risk Assessment of Mercury in the Soils of an Artisanal Gold Mining Community in Ghana. *Chemosphere*, 267: 128910. DOI: 10.1016/j.chemosphere.2020.128910
46. Gyimah E., Xu H., X Dong, Qiu X., Zhang Z., Bu Y., Akoto O. (2020). Developmental neurotoxicity of low concentrations of bisphenol A and S exposure in zebrafish. *Chemosphere* 262: 128045
47. Karimi-Maleh, H., Shafieizadeh, M., Taher, M.A., Opoku, F., Kiarri, E. M., Govender P. P., Ranjbari, S., Rezapour, M., Orooji, Y. (2020). The role of magnetite/graphene oxide nano-composite as a high-efficiency adsorbent for removal of phenazopyridine residues from water samples, an experimental/theoretical investigation. *Journal of Molecular Liquids*, 298(2020): 112040.
48. Kortei, N. K., Heymann, M. E., Essuman, E. K., Kpodo, F., Lokpo, S. Y., Boadi, N. O., Akonor, P.T., et al. (2020). Health risk assessment and levels of toxic metals in fishes (*Oreochromis niloticus* and *Clarias anguillaris*) from Ankobrah and Pra basins: Impact of illegal mining activities on food safety. *Toxicology Reports*, Elsevier, 7: 360-369.
49. Kortei, N.K., Koryo-dabrah, A., Akonor, P.T., Yaw, N., Manaphraim, B., Ayim-akonor, M., Boadi, N.O., et al. (2020). Potential health risk assessment of toxic metals contamination in clay eaten as pica (geophagia) among pregnant women of Ho in the Volta Region of Ghana. *BMC Pregnancy and Childbirth*, 4: 1–7.
50. Kumari, R., Opoku, F., Osikoya, A.O., Anku, W.W., S.K. Shukla, P.P. Govender (2019). Hierarchically assembled two-dimensional goldboron nitride-tungsten disulphide nanohybrid interface system for electrobiocatalytic applications. *Materials Chemistry and Physics*, 226: 129-140. DOI: 10.1016/j.matchemphys.2018.12.103
51. Kumari, R., Osikoya, A. O., Opoku, F., Anku, W.W., Shukla, S.K., Govender, P.P. (2020). Composite 2D Nanointerfaces for Electrochemical Biosensing: An Experimental and Theoretical Study. *ACS Applied Bio Materials*, DOI 10.1021/acsbm.0c01065.

52. Kwaansa-Ansah, E. E., Armah, E. K., Opoku, F. (2019). Assessment of Total Mercury in Hair, Urine and Fingernails of Small–Scale Gold Miners in the Amansie West District, Ghana. *Journal of Health and Pollution*, 9(21): 190306. DOI: 10.5696/2156-9614-9.21.190306
53. Kwaansa–Ansah, E. E., Nkrumah, D., Nti, S. O., Opoku, F. (2019). Adsorption of heavy metals (Cu, Mn, Fe and Ni) from surface water using *Oreochromis niloticus* scales. *Pollution*, 5(1): 115-122. DOI: 10.22059/poll.2018.259347.454
54. Kwaansa-Ansah, E. E., Nti, S. O., Opoku, F. (2019). Heavy metals concentration and human health risk assessment in seven commercial fish species from Asafo Market, Ghana. *Food Science and Biotechnology*, 28: 569–579.
55. Kwawu, C. R., Aniagyei, A., Tia, R., Adei, E. (2020). A DFT investigation of the mechanisms of CO₂ and CO methanation on Fe (111). *Mater Renew Sustain Energy*, : 4.
56. Kyei, S. K., Akaranta, O., Darko, G. (2020). Synthesis, characterization and antimicrobial activity of peanut skin extract-azo-compounds. *Scientific African*, 8, e00406.
57. Kyei, S. K., Akaranta, O., Darko, G., Chukwu, U. J. (2019). Extraction, Characterization and Application of Cashew Nut Shell Liquid from Cashew Nut Shells. *Chemical Science International Journal*, 28(3): 1–10.
58. Kyei, S. K., Darko, G., & Akaranta, O. (2020). Chemistry and application of emerging ecofriendly antifouling paints: a review. *Journal of Coatings Technology and Research*, 17(2): 315–332.
59. Mensah, J. K., Abubakari, M., Jibira, Y. (2020). Aqueous Co-extract Mixture of *Combretum molle* (stembark) and *Xylopia aethiopica* (fruit) show Phytochemical Synergy in its Anti-fungal and Antioxidant Bioactivities. *Advances in Complementary and Alternative Medicine*, 6(2): 560-574. DOI: 10.31031/ACAM.2020.06.000634
60. Mensah, M. B., Awudza, J. A. M., Revaprasadu, N., O'Brien, P. (2021). Synthesis of CdS and PbS nanoparticles by the thermal decomposition of ethyl xanthate complexes in castor oil using the heat-up technique. *Materials Science in Semiconductor Processing*, 122: 105493.
61. Mingle, C. L., Darko, G., Borquaye, L. S., Asare-Donkor, N. K., Woode E., Koranteng, F. (2020). Veterinary drug residues in beef, chicken, and egg from Ghana, *Chemistry Africa*. <https://doi.org/10.1007/s42250-020-00225-5>
62. Nnuro, W. A., Amankwaah, D., Awudza, J. A. M., Afful, S. (2020). Assessment of Heavy Metals and Proximate Analysis of Cocoa Beans from Selected

Cocoa Growing Areas in Ghana. *International Research Journal of Pure & Applied Chemistry*, 21(14): 36-46

63. Nyantakyi, J. A., Fei-Baffoe, B., Akoto, O. (2020). Seasonal Variations in Physicochemical and Nutrient Water Quality of River Tano in Ghana. *Springer International Publishing*, 4(1): 1-12.
64. Ofori, P., Akoto, O. (2020). Production and Characterisation of Briquettes from Carbonised Cocoa Pod Husk and Sawdust. *Open Access Library Journal*, 07(02): 1-20.
65. Opoku, E., Arhin, G., Pipim, G. B., Adams, A. H., Tia, R., Adei, E., (2020). Site-, enantio – and stereo-selectivities of the 1,3-dipolar cycloaddition reactions of oxanorbornadiene with C, N-disubstituted nitrones and dimethyl nitrilimines: a DFT mechanistic study. *Theoretical Chemistry Accounts*, 139: 16.
66. Opoku, E., Pipim, G. B., Tia, R., Adei, E. (2020). Mechanistic study of the tandem intramolecular (4 + 2)/intermolecular (3 + 2) cycloaddition reactions for the formation of polyaza – and polyisoxazolidine-steroids. *Journal of Heterocyclic Chemistry*, pp. 1-11.
67. Opoku, F., Govender, P. P. (2019). Tuning the electronic properties and interfacial interactions of WS₂/ZrO₂(001) heterostructures by an external electric field, interlayer coupling and monolayer to few-layer of WS₂ sheets. *Materials Chemistry and Physics*, 224: 107-116.
68. Opoku, F., Govender, P. P. (2020). Adsorption behaviour of Si anchored on g-C₃N₄/graphene van der Waals heterostructure for selective sensing of toxic gases: Insights from a first-principles study. *Applied Surface Science*, 525:146590.
69. Opoku, F., Govender, P. P. (2020). Atomistic insight into the significantly enhanced photovoltaic cells of monolayer GaTe₂ via two-dimensional van der Waals heterostructures engineering. *Physical Sciences Reviews*, DOI <https://doi.org/10.1515/psr-2019-0127>
70. Opoku, F., Govender, P. P. (2020). Computational screening of vdWs heterostructures of BSe with MoSe₂ and WSe₂ as sustainable hydrogen production materials. *Current Applied Physics*, DOI <https://doi.org/10.1016/j.cap.2020.06.001>.
71. Opoku, F., Govender, P. P., Pooe, O.J., Simelane, M.B. (2019). Evaluating Iso-Mukaadial Acetate and Ursolic Acid Acetate as Plasmodium falciparum Hypoxanthine-Guanine-Xanthine Phosphoribosyltransferase Inhibitors. *Biomolecules*, 9: 861.

72. Opoku, F., Osikoya, A. O., Dikio, E.D., Govender, P. P. (2019). One-step synthesized 2D heteroatom doped graphene for high throughput electrochemical biosensing: A combined experimental and computational studies. *Diamond and Related Materials*, 100: 107592. <https://doi.org/10.1016/j.diamond.2019.107592>
73. Oppong, S. O. B., Opoku, F., Anku, W.W., Kiarri, E.M., Govender, P.P. (2019). Experimental and Computational Design of Highly Active Ce–ZrO₂–GO Photocatalyst for Eosin Yellow Dye Degradation: The Role of Interface and Ce³⁺ Ion. *Catalysis Letters*, 149: 1633-1650.
74. Oppong, S. O. B., Opoku, F., Govender, P.P. (2020). Tuning the electronic and structural properties of Gd-TiO₂-GO nanocomposites for enhancing photodegradation of IC dye: The role of Gd³⁺ ion. *Applied Catalysis B: Environmental*, 243: 106-120.
75. Oppong, S. O. B., Oppong, F. Opoku, P. P. (2020). Govender, Remarkable Enhancement of Eu–TiO₂–GO Composite for Photodegradation of Indigo Carmine: A Design Method Based on Computational and Experimental Perspectives. *Catalysis Letters*, DOI 10.1007/s10562-020-03386-7(2020).
76. Osikoya, A.O., Opoku, F., Dikio, E.D., Govender, P.P. (2019). High-Throughput 2D Heteroatom Graphene Bioelectronic Nanosculpture: A Combined Experimental and Theoretical Study. *ACS applied materials & interfaces*, 11: 11238-11250.
77. Pipim, G. B., Opoku, E., Tia, R., Adei, E. (2020). Peri-, Chemo-, Regio-, Stereo – and Enantio-Selectivities of 1,3-dipolar cycloaddition reaction of C, N-Disubstituted nitrones with disubstituted 4-methylene-1,3-oxazol-5(4H) – one: A quantum mechanical study. *Journal of Molecular Graphics and Modelling*, 97: 107542.
78. Pipim, G. B., Tia, R., Adei, E., (2020). (3 + 2) Cycloaddition Reaction of 7-Isopropylidenebenzonorbornadiene and Diazomethane Derivatives: A Theoretical Study. *Journal of Molecular Graphics and Modelling*, 101: 107713.
79. Pipim, G. B., Tia, R., Adei, E., (2020). Investigating the regio-, stereo-, and enantio-selectivities of the 1,3-dipolar cycloaddition reaction of C-cyclopropyl-N-phenylnitron derivatives and benzylidenecyclopropane derivatives: A DFT study. *Journal of Molecular Graphics and Modelling*, 100: 107672
80. Rweyemamu, A. R., Nkansah, M. A., Darko, G., & Dodd, M. (2020). Contamination and Human Health Risk Due to Toxic Metals in Dust from Transport Stations in the Kumasi Metropolis, Ghana. *Chemistry Africa*, 3(3): 831–843.

81. Sanda, M. D. A., Badu, M., Awudza, J. A. M., Boadi, N.O. (2020). Development of TiO₂-based dye-sensitized solar cells using natural dyes extracted from some plant-based materials. *Chemistry International*, 7(1): 9-20
82. Sekoto, P. N., Magengenene, T. M., Matsinha, L. C., Tia, R., Darkwa, J., Makhubela, B. C. E. (2020). Catalytic isomerization–hydroformylation of olefins by rhodium salicylaldimine pre-catalysts. *New J. Chem*, 44: 8751-8762.
83. Tsoeu, S. E., Opoku, F., Govender, P.P. (2020). Exploring the Optical, Structural and Electronic Properties of a Two-Dimensional GaSe/C₂N van der Waals Heterostructure As a Photovoltaic Cell: A Computational Investigation, *Journal of Electronic Materials*. DOI 10.1007/s11664-020-08606-9
84. Tsoeu, S. E., Opoku, F., Govender, P.P. (2020). Tuning the electronic, optical and structural properties of GaS/C₂N van der Waals heterostructure for photovoltaic application: first-principle calculations. *SN Applied Sciences*, 2(3). DOI: 10.1007/s42452-020-2091-y
85. Umar, A. R., Tia, R., Adei, E. (2020). The 1,3-dipolar cycloaddition of adamantane-derived nitrones with maleimides: A computational study. *Computational and Theoretical Chemistry*, 1195: 113099. <https://doi.org/10.1016/j.comptc.2020.113099>.
86. Umar, A. Rashid., Tia, R., Adei, E. (2020). DFT mechanistic studies on the regio-, stereo-, and enantio-selectivity of 1,3 dipolar cycloadditions of quinolinium imides with olefins, maleimides, and benzynes for the synthesis of fused N,N'-heterocycles. *Journal of Molecular Modeling* 26: 36.
87. Wireko-Gyebi, R. S., Asibey, M. O., Amponsah, O., King, R. S., Braimah, I., Darko, G., Lykke, A. – M. (2020). Perception of small-scale miners on interventions to eradicate small-scale mining in Ghana. *SageOpen*, 10(4): 65–75. <https://doi.org/10.1177/2158244020963668>
88. Opoku, F., Govender, P.P. (2020). Two-dimensional CoOOH as a Highly Sensitive and Selective H₂S, HCN and HF Gas Sensor: A Computational Investigation, *Electroanalysis. An International Journal Devoted to Fundamental and Practical Aspects of Electroanalysis*, 32: 1-12. <https://doi.org/10.1002/elan.202060337>

CONFERENCES PAPERS/PROCEEDINGS

1. Opoku, F., Govender, P.P. (2020). Highly Selective and Sensitive Detection of Formaldehyde by β 12-Borophene/SnO₂ Heterostructures: The Role of an External Electric Field and In-Plane Biaxial Strain, *The Journal of Physical Chemistry A*, 124 (2020) 2288-2300. Virtual 14th Centre for

High Performance Computing (CHPC) National Conference, Birchwood Conference Centre, Boksburg, Johannesburg 30th November – 2nd December 2020.

2. Opoku, F., Govender, P.P. (2019). Tuning the electronic properties and interfacial interactions of WS₂/ZrO₂(001) heterostructures by an external electric field, interlayer coupling and monolayer to few-layer of WS₂ sheets. Oral presentation. 13th Centre for High Performance Computing (CHPC) National Conference, Birchwood Conference Centre, Boksburg, Johannesburg 2nd – 4th December 2019.
3. Opoku, F., Govender, P.P., van Sittert, C.G.C.E. (2019). Insights into the photocatalytic mechanism of mediator-free direct Z-scheme g-C₃N₄/Bi₂MoO₆ (010) and g-C₃N₄/Bi₂WO₆ (010) heterostructures: a hybrid density functional theory study. Poster presentation. International Conference on Functional Materials Technology (AAAFM-UCLA 2019), University California, Los Angeles, California USA 19th – 22nd August 2019.
4. Opoku, F., Govender, K.K., van Sittert, C.G.C.E., Govender, P.P. (2019). Tuning the electronic structures, work functions, optical property and stability of bifunctional hybrid graphene oxide/V-doped NaNbO₃ type-II heterostructures: A promising photocatalyst for H₂ production. Frank Warren 2019 – Drakensberg – South Africa, 7th – 11th July 2019.
5. Opoku, F., Govender, K.K., van Sittert, C.G.C.E., Govender, P.P. (2019). Hybrid DFT study of MWCNT/Zr-doped SrTiO₃ heterostructures: Hydrogen production, electronic properties and charge carrier mediator role of Zr⁴⁺ ion. Poster presentation. European Polymer Congress 2019 (EPF 2019), Creta Maris Convention Center & Beach Resort in Hersonissos Heraklion Crete, Greece 9th–14th June 2019.
6. *Apau, J. (2019). Relationship Between Exposure to Bisphenols and Phthalates and Obesity in Adolescence. 5th International Conference on OBESITY AND CHRONIC DISEASES in Berlin-Germany in Sept 30-October, 2019.*

BOOK CHAPTERS

1. Opoku, F., Kiarri, E.M., Govender, P.P. (2020). Nanotechnology for Water and Wastewater Treatment Using Graphene Semiconductor Composite Materials, in: N. Dasgupta, S. Ranjan, E. Lichtfouse (Eds.) Environmental Nanotechnology Volume 4, Springer International Publishing, Cham, 2020, pp. 1-34.

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC STAFF

Associate Professors:

J. B. Hayfron-Acquah	PhD (UK), MSc (China), BSc (Kumasi)
M. Asante	PhD., MSc (UK), Dip (Tarkwa)

Senior Lecturers:

N. Ussiph	PhD (UK), MSc., BSc (Nigeria)
J. K. Panford	MSc (Germany), BSc (Kumasi)
F. Twum	PhD (Kumasi), MSc., MSc., BSc (UK)
Y. M. Missah	DCS (US), MSc (UK), BSc (Kumasi)
G. Abdul-Salaam	PhD (Malaysia), MSc., BSc (Kumasi)

Lecturers:

D. Asamoah	PhD., MPhil., BSc (Kumasi)
E. D. Ansong	PhD (Kumasi), MSc (India), BSc (Koforidua)
K. O. Peasah	PhD., MSc., BSc (Kumasi)
I. Farouck	PhD., MSc (Japan), BSc (Kumasi)
E. Ahene	PhD., MEng (China), BSc (Tamale)
E. Opoku	PhD., PG Dip (South Africa), MIT., HND (Kumasi)
K. Takyi	PhD., MSc (India), BSc (Kumasi)
Rose-Mary O. M. Gyening	PhD (Kumasi), MSc (Germany), BSc (Kumasi)

Part-Time Lecturers:

K. A. Pabbi	MSc (UK), BSc (Kumasi)
E. O. Oppong	MSc., BSc (Kumasi)

Technicians:

N. D. Frimpong	MSc., BSc., Dip (Kumasi)
----------------	--------------------------

B. T. Partey MSc (Kumasi)

B. Odoi-Lartey MSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Appiah, O., Asante, M., & Hayfron-Acquah, J. B. (2020). Improved approximated median filter algorithm for real-time computer vision applications. *Journal of King Saud University – Computer and Information Sciences*. <https://doi.org/10.1016/j.jksuci.2020.04.005>
2. Appiah, O., Hayfron-Acquah, J. B., Asante, M. (2020). An Effective Algorithm for Denoising SaltAnd-Pepper Noise in Real-Time. *Asian Journal of Research in Computer Science*, 6(1): 14-27.
3. Twum, F. Hayfron-Acquah, J. B., Panford, J. K. (2019). A Comparative Study of Existing Cloud Security System Models as against an Implementation of the CDDI Model Dubbed SecureMyFiles System. *International Journal of Computer Applications*, 177(31): 17-37.
4. Kodzo, B. A., Hayfron-Acquah, J. B., Asante, M., Ghann, P. (2020). A Survey of Modern Ant Colony Optimization Algorithm for MANET: Routing Challenges, Perceptives and Paradigms. *International Journal of Engineering, Research and technology*, 9(5): 952-959.
5. Kodzo, B. A., Hayfron-Acquah, J. B., Asante, M., Gavua, E. K. (2020). An energy efficient-routing routing Algorithm with Optimization Framework for Mobile Adhoc Networks: A Performance study. *International Journal of Modern trends in Engineering and Research*, 7(5): 64-83.
6. Agyapong, A.V., Asante, M. (2020). An Enhanced Non-Cryptographic Hash Function. *International Journal of Computer Applications*, 176(15): 10-17
7. Tee, M., Asante, M., Twum, F (2019). An Improved VoIP using Adaptive Multirate Encoder (AMR). *International Journal of Computer Applications*, 178(51): 23-32.
8. Rockson, K. A., Asante, M., Edeh, M. O. (2020). Implementing Morpheme-based Compression Security Mechanism in Distributed Systems. *International Journal of Innovative Research and Development*, 9(2): 157-162.
9. Alhassan, I. Z., Ansong, E. D., Abdul-Salaam, G., & Alhassan, S. (2020). Enhancing Image Security during Transmission using Residue Number System and k-shuffle. *Earthline Journal of Mathematical Sciences*, 4(2): 399-424.

10. Muntaka, S. A, Muntaka, I., Ussiph, N. (2020). Facilitating Teaching and Learning: The Effect of Technology – Mediated Tool. *International Journal of Advanced Research In Education & Technology*, 7(3): 71-75.
11. Appiahene, P., Missah, Y. M., Ussiph, N. (2020). Predicting Bank Operational Efficiency Using Machine Learning Algorithm: Comparative Study of Decision Tree, Random Forest, and Neural Networks. *Advances in Fuzzy Systems*, 5(12): 1-12. <https://doi.org/10.1155/2020/8581202>

DEPARTMENT OF ENVIRONMENTAL SCIENCE

ACADEMIC STAFF

Associate Professors:

I. K. Tetteh	PhD., MS (US), MSc (Kumasi), BSc., Dip.Ed (Cape Coast)
P. Antwi-Agyei	PhD., MSc (UK), BSc (Kumasi)
J. N. Hogarh	PhD (Japan), MSc (Denmark), MPhil, BSc (Legon)
B. Fei-Baffoe	PhD., MSc (Germany), BSc (Legon)

Lecturers:

K. Miezah	PhD (Kumasi), MPhil (Legon), BSc (Cape Coast)
A. Sulemana	PhD., MSc., BSc (Kumasi)
S. O. Kwakye	PhD., MSc (Germany), BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Koranteng M.K., Nukpezah D., Hogarh J.N. (2019). Hydrogen peroxide utilisation and bio-stimulation of petroleum hydrocarbon contaminated soil from Cape Three Point, Ghana. *Journal of Ghana Science Association*, 18(2): 17-28.
2. Ayaim, M. K., Fei-Baffoe, B., Sulemana, A., Miezah, K., Adams, F. (2019). Potential sites for landfill development in a developing country: A case study of Ga South Municipality, Ghana. *Heliyon*, 5(10): e02537.

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

ACADEMIC STAFF

Professors:

#W.O. Ellis PhD (Canada), BSc (Kumasi)

#I.N. Oduro (Mrs.) PhD (England), BSc (Nigeria)

Visiting Professors:

K.O. Falade PhD., MSc (Nigeria) MSc (UK), BSc (Nigeria)

B.K. Simpson PhD (Canada)

Associate Professors

I. W. Ofosu PhD., MSc., BSc (Kumasi)

F. D. Wireko-Manu (Mrs) PhD., MSc (Kumasi), BSc (Legon)

Senior Lecturers:

E. Y. A. Amankwah PhD (Netherlands), MSc., BSc (Kumasi)

F. Alemawor PhD., BSc (Kumasi)

J. K. Agbenorhevi PhD., MSc (UK), BSc. (Kumasi)

G. M Ankar-Brewoo (Mrs.) PhD., MSc., BSc (Kumasi)

H. E. Lutterodt PhD., MSc (USA), BSc (Legon)

Lecturers:

L. D. K De-Souza PhD., MSc., BSc (Russia)

A. A. Boakyeh PhD., MSc., BSc (Kumasi)

E. O. Mensah PhD., MSc. BSc (Kumasi)

N. B. Pepra-Ameyaw PhD (USA) MSc., BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Adi, D.D., Oduro, I.N. and Tortoe, C. (2019). Physicochemical Changes in Plantain during Normal Storage Ripening. *Scientific African*, 6: 1-12 <https://doi.org/10.1016/j.sciaf.2019.e00164>
2. Djameh, C., Ellis, W. O., Oduro, I., Saalia, F. K., Haslbeck, K. and Komlaga, G. A. (2019). West African sorghum beer fermented with *Lactobacillus delbrueckii* and *Saccharomyces cerevisiae*: fermentation by-products. *Journal of the Institute of Brewing*, 125: 326–332. <https://doi.org/10.1002/jib.562>
3. Djameh, C., Ellis, W. O., Oduro, I., Saalia, F. K., Blay, Y. M. and Komlaga, G. A. (2019). West African sorghum beer fermented with *Lactobacillus delbrueckii* and *Saccharomyces cerevisiae*: shelf-life and consumer acceptance. *Journal of the Institute of Brewing*, 125: 333-341. <https://doi.org/10.1002/jib.563>
4. Azuma S.L., Quartey, N.K-A., Oforu, I.W., (2020). Sodium Benzoate in non-alcoholic carbonated (soft) drinks: Exposure and health risks. *Sci. African*, 10: e00611
5. Parker, M., Zobrist, S., Lutterodt, H.E., Asiedu, C.R., Donahue, C., Edick, C., Mansen, K., Pelto, G., Milani, P., Soor, S., Laar, A. and Engmann, C.M. (2020). Evaluating the nutritional content of an insect-fortified food for the child complementary diet in Ghana. *BMC Nutrition*, 6(7). <https://doi.org/10.1186/s40795-020-0331-6>
6. Ayensu, J., Annan, R., Lutterodt, H.E., Edusei, A., Peng, L.S. (2020). Prevalence of anaemia and low intake of dietary nutrients in pregnant women living in rural and urban areas in the Ashanti region of Ghana. *PLoS ONE*, 15(1): e0226026. <https://doi.org/10.1371/journal.pone.0226026>
7. Adejuwon, O. H., Jideani, A. I. O. and Falade, K. O. (2019). Quality and public health concerns of instant noodles as influenced by raw materials and processing technology. *Food Reviews International*, 36(3): 276-317.
8. Oluwatoyin Oluwole, W. M.A.D. Binosha Fernando, Keiron Audain, Olufemi Fasanmade, Oluwatosin Ijabaadeniyi, Kolawole Falade, Adjei Maame Yaakwaah, Vijay Jayasena (2019). The Effects of Germination and Roasting on Nutraceutical and Antioxidant Properties of Jirani Variety of Millet. *American Journal of Food Science and Technology*, 7(6): 234-241.
9. Falade, K. O., and Akeem, S. A. (2020). Physicochemical properties, protein digestibility and thermal stability of processed African mesquite bean (*Prosopis africana*) flours and protein isolates. *Food Measurement and Characterisation*, 14: 1481–1496. <https://doi.org/10.1007/s11694-020-00398-0>

10. Falade, K. O., and Akeem, S. A. (2020). Protein quality of dehulled-defatted African mesquite bean (*Prosopis africana*) flour and protein isolates. *Food Measurement and Characterisation*, 14: 3426–3433. <https://doi.org/10.1007/s11694-020-00582-2>
11. Falade, K. O. and Akinrinde, (2020). Physical, chemical and adsorption isotherm characteristics of fermented soybean cultivars, and cracked and dehulled African locust bean using selected *Bacillus* spp. *Journal of Food Science and Technology*, <https://doi.org/10.1007/s13197-020-04782-y>.
12. Adu-Kwarteng, E., Oduro, I, Ellis, W.O and Agbenorhevi, J.K. (2020). Rapid assessment of compositional stability in improved sweetpotato varieties: relevance in breeding and utilization, *International Journal of Innovative Research & Development*, 9(7): 72-78.
13. Kissiedu, K.O., Agbenorhevi, J.K. and Datsomor D.N. (2020). Optimization of sensory acceptability of milk chocolate containing okra pectin as emulsifier. *International Journal of Food Properties*, 23(1): 1310-1323.
14. Abe-Inge, V., Agbenorhevi, J.K., Katamani, G.D., Ntim-Addae S.B. and Kpodo, F.M. (2020). Effect of okra pectin treatment on quality attributes and consumer acceptability of tiger nut milk and fried yam. *Cogent Food & Agriculture*, 6: 1781992.
15. Ofori J, Tortoe C, Agbenorhevi JK. (2020). Physicochemical and functional properties of dried okra (*Abelmoschus esculentus* L.) seed flour. *Food Sci Nutr*, 00: 1–6. <https://doi.org/10.1002/fsn3.1725>
16. Tobil, M., Deh, C.Y., Agbenorhevi, J.K., Sampson, G.O. and Kpodo, F.M. (2020). Effect of okra pectin on the sensory, physicochemical and microbial quality of Yoghurt. *Food and Nutrition Sciences*, 11: 442-456.
17. Agbenorhevi, J.K., Kpodo, F.M., Banful, B.K.B., I.N. Oduro, Abe-Inge, V., Datsomor, D.N., Atongo, J. and Obeng, B. (2020). Okra survey and evaluation of okra pectin at different maturity. *Cogent Food & Agriculture*, 6: 1760476.
18. Abe-Inge, V., Asaam, E.S., Agbenorhevi, J.K., Bawa, N.M. and Kpodo, F.M. (2020) Development and Evaluation of of African Palmyra palm (*Borassus aethiopicum*) fruit flour-Wheat Composite Flour Noodles, *Cogent Food & Agriculture*, 6(1): 1749216.
19. Kpodo F.M., Agbenorhevi, J.K., Alba, K. and Kontogiorgos, V. (2020). Emulsion properties of Ghanaian grewia gum. *International Journal of Food Science and Technology*, 55: 1909-1915.
20. Kpodo, F.M., Agbenorhevi, J.K., Alba, K. Smith, A.M., Morris, G.A. and Kontogiorgos, V. (2019). Structure and physicochemical properties of

Ghanaian grewia gum. *International Journal of Biological Macromolecules*, 122: 866-872.

21. Darkwah G., Ankar-Brewoo, G., Barimah, J., Owiah-Sampson G., Abe-Inge, V. (2020). Quality assessment of some selected locally produced and marketed soft drinks in Ghana. *Scientific African Journal*, 8(2020): e00341. DOI: 10.1016/j.sciaf.2020.e00341
22. Ankar-Brewoo, G. M., Darko, G., Abaidoo, R. C., Dalsgaard, A., Johnson, P. N., Ellis, W. O., & Brimer, L. (2020). Health risks of toxic metals (Al, Fe and Pb) in two common street vended foods, fufu and fried-rice, in Kumasi, Ghana. *Scientific African*, 7[e00289]. <https://doi.org/10.1016/j.sciaf.2020.e00289>
23. Ankar-Brewoo, G. M., Darko, G., Abaidoo, R. C., Dalsgaard, A., Johnson, P. N., Ellis, W. O., & Brimer, L. (2020). Dietary Risk Assessment Due to the Consumption of Polycyclic Aromatic Hydrocarbon in Two Commonly Consumed Street Vended Foods. *Polycyclic Aromatic Compounds*, pp. 1-11.
24. Boakye, A. A., Gudjónsdóttir, M., Wireko-Manu, F. D., Oduro, I., Ellis, W. O., & Chronakis, I. S. (2018). Water-starch interactions of red and white cocoyam (*Xanthosoma sagittifolium*). *Starch-Stärke*, <https://doi.org/10.1002/star.201800128>
25. Damian Laryea, F.D. Wireko-Manu and Ibok Oduro (2018). Formulation and characterization of sweetpotato-based complementary food. *Cogent Food & Agriculture*, 4: 1517426 <https://doi.org/10.1080/23311932.2018.1517426>

CONFERENCE PAPERS/PROCEEDINGS

1. Frimpong, V. and Agbenorhevi, J.K. (2020) Assessment of nutritional status of older people 60 years and above of Bogyawe in Bekwai municipality, Ashanti region. In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p45.
2. Ameyaw, R., Ameyaw, E. and Agbenorhevi, J.K. (2020) Assessment of knowledge and socioeconomic status of caregivers of children with malnutrition in maternal and child health hospital, Kumasi In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p46.
3. Atikese, T.A., Wireko-Manu, F.D. and Agbenorhevi, J.K. (2020) Development of functional beverage, In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p63.

4. Katamani, G.D., Abe-Inge, V. and Agbenorhevi, J.K. (2020) Quality and consumer acceptability of fried yam as influenced by okra pectin pretreatment, In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p72.
5. Ntim-Addae, S.B., Abe-Inge, V. and Agbenorhevi, J.K. (2020) Effect of okra pectin on the quality and consumer acceptability of tigernut milk, In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p73.
6. Kyei-Asante, B., Alemawor, F. and Agbenorhevi, J.K. (2020) A comparative study on physico-chemical and antioxidant characteristics of shea butter treated with milled and shredded borututu bark, In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p74.
7. Williams, G., Agbenorhevi, J.K. and Kpodo, F.M. (2020) Physicochemical evaluation of okra residue obtained after pectin extraction, In: GSA Webinar 2020/9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p75.
8. Amankwah, N.Y.A., Agbenorhevi, J.K. and Kpodo, F.M. (2020) Physicochemical and functional properties wheat – rain tree (*Samanea saman*) pod composite flour, In: GSA Webinar 2020/ 9th GSA Research Seminar and Poster Presentations, Kumasi, 28-29 July, 2020, KNUST-Kumasi, p76.
9. Abe-Inge, V., Asam E.S, Bawa, N. Agbenorhevi, J.K. and Kpodo, F.M. (2018) Development and Evaluation of African Palmyra palm (*Borassus aethiopicum*) fruit-Wheat Composite Flour Noodles. In: 8th GSA Research Seminar and Poster Presentations, Kumasi, 1st May, 2019, KNUST-Kumasi, p125.
10. Tsimese A. A., Appiah E., De-Souza L.D.K, Oduro I.N., (2020). Production and Evaluation of Gluten-Free cookies from Tiger nut Flour, Cassava Flour, Ginger Flour and Coconut Milk. 9th GSA Research Seminar and Poster Presentations, Kumasi, KNUSTKumasi, July, 2020, page 23.
11. Adjetey F.A., Ofori K.F., Torko F., De – Souza L.D.K., Oduro I.N., (2020). Study of the Functional properties of Solar-dried seed flour of *Spondias Mombin* fruit (Yellow Mombin). 9th GSA Research Seminar and Poster Presentations, KNUST, Kumasi, July 2020, page 64.
12. Djan P.K.S., De – Souza L.D.K., Vale-Hagan W., (2020). Proximate and Antioxidant composition of oven dried soursop seeds and pulp. 9th GSA Research Seminar and Poster Presentations, Kumasi, KNUST-Kumasi, July, 2020, pp. 70.

DEPARTMENT OF OPTOMETRY AND VISUAL SCIENCE

ACADEMIC STAFF

Senior Lecturers:

N. Y. Koomson	PhD, MSc, PG.Dip, OD, BSc (Kumasi)
M. Abdul-Kabir	MPH, MSc, PG.Dip, OD, BSc (Kumasi)
M. P. Tchiapke	MPH, MSc, PG.Dip, OD, BSc (Kumasi)
#D.B. Kumah	MPH, OD, PG.Dip, BSc (Kumasi), PG.Cert (Cape Coast)
#A.O. Amedo	PhD., OD (USA)

Lecturers:

E. Owusu	PhD (USA), MSc (UK), MOptom (South Africa), OD, BSc (Kumasi)
E. Kobia-Acquah	MSc. OD (Kumasi), FLVPEI (India)
A. Sadik-Ahmed	MPhil, PG.Dip, OD, BSc (Kumasi)
K.O. Akuffo	PhD, OD (Ireland)
E.K. Antwi-Adjei	MPH, OD, BSc (South Africa)
C. Afari	PhD (Canada), MOptom (South Africa), OD, BSc (Kumasi)
S.S. Merepa	MSc, OD (UK)

Part-Time Lecturers:

E. Ayisi-Boateng	MBCHB, MD&MS (Kumasi)
D. Amankwa-Frempong	MBCHB, MD&MS (Kumasi)
S. Kyeremeh	MOptom (South Africa), OD, BSc (Kumasi)

On contract

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Kobia-Acquah, E., Akowuah, P.K., Antwi-Adjei, E.K., Forkuo, P.M., Koomson, N.Y., Odotei, S.O., Alabi, E. and Donkor, R. (2019). Contact lens

complications among wearers in Ghana. *Contact Lens and Anterior Eye. Journal of the British Contact Lens Association*, 44(1): 67-71. DOI: 10.1016/j.clae.2019.11.003

2. Bhuachalla, B.N., McGarrigle, C.A., O'Leary, N., Akuffo, K.O., Peto, T., Beatty, S. and Kenny, R.A., (2019). Orthostatic blood pressure variability is associated with lower visual contrast sensitivity function: Findings from The Irish Longitudinal Study on Aging. *Experimental gerontology*, 119: 14-24.
3. Lartey, S., Antwi-Adjei, E.K., Agyapong, S., Mohammed, A.K., Mensah, D.N. and Genego, E.S., (2019). Awareness and attitudes toward corneal donation among applicants and staff of a driver, vehicle and licensing authority (DVLA) in Ghana. *BMC ophthalmology*, 19(1): 224.

CONFERENCE PAPERS/PROCEEDINGS

1. Antwi A., Mohammed A.K., Akuffo K.O., Antwi-Adjei E.K., Amponsah J.K., and Darko C. K., (2019). Visual outcomes and patient satisfaction after Laser in situ Keratomileusis (LASIK) in Ghana. *Proceedings of the American Academy of Optometry and 3rd World Congress of Optometry Joint Meeting, Orlando, USA, Oct. 23 – 27, 2019.*
2. Asare A. K., Akuffo K.O., Kumah D. B., Agyei-Manu E., Darko C. K., and Addo E., (2019). Pattern of Amblyopia in a Rural Hospital in Ghana, *Proceedings of the American Academy of Optometry and 3rd World Congress of Optometry Joint Meeting, Orlando, USA, Oct. 23 – 27, 2019.*
3. Akuffo K.O., Kumah D. B., Asare A. K., Agyei-Manu E., Addo E., and Darko C. K., (2019). Childhood Blindness Insights: Amblyopia in Rural Ghana, *Proceedings of the Connecting Minds Africa Conference, Nairobi, Kenya, Sept. 25 – 27, 2019.*
4. Akuffo K.O., Mohammed A.K., and Tsiquaye J.H., (2018). Availability, Awareness and Perception of Stakeholders Regarding Preschool Vision Screening in Ghana, *Proceedings of the American Academy of Optometry Annual Meeting, San Antonio, USA, Nov. 7 – 10, 2018.*
5. Darko C.K., Mohammed A.K., and Akuffo K.O., (2018). Near Vision Correction Coverage Among Sewing Professionals of Presbyopia Age in the Oforikrom Municipality, *Proceedings of the Convention of Biomedical Research Ghana (COBREG), UHAS Main Campus, Ho, Ghana, Aug. 2-3, 2018.*

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

ACADEMIC STAFF

Association Professor:

A.O. Adebانji PHD (Nigeria), MPH (Kumasi), MSc, BSc (Nigeria)

Senior Lecturers:

R. K. Avuglah PHD, MSc (Germany), BSc (Cape Coast)
E. Harris MSc (Germany), MSc (US), BSc (Kumasi)
G. A. Okyere PHD, MSc (US), MSc, BSc (Kumasi)
S. K. Appiah PHD (Australia), MSc, BSc (Kumasi)
N. K. Frempong PHD (Kumasi), MSc (Belgium), BSc (Kumasi)
D. A. Owusu PHD, MSc, BSc (Kumasi)
V. K. Dedu MSc (Germany), BSc (Cape Coast)
A.Y. Omari-Sasu PHD (Tamale), MSc (Germany), BSc (Kumasi)
I. A. Adjei MSc (Belgium), MSc, BSc (Kumasi)
E. D-G.J. Owusu-Ansah PHD., MPhil, BSc (Kumasi)

Lecturers:

E. N. Aidoo PHD (Australia), MSc (Sweden), BSc (Cape Coast)
S. Twumasi-Ankrah PHD (Sri Lanka), MSc (Ukraine) BSc (Cape Coast)
C. Abaitey MPhil, BSc (Kumasi)
A. Boateng PHD, MPhil (Cape Coast), BEd (Akrokerri)
A. K. Agyakro PHD (South Africa), MPhil (Kumasi), MSc (UK), BSc (Cape Coast)
S. A. Gyamerah PHD (Kenya), MPhil (Kumasi), BSc (Cape Coast)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Asoega, K. A., Adedia, D. and Adebانji, A. O. (2020). Sensitivity Analysis of the Quadratic Discriminant Function for Predicting Pregnancy Outcomes.

Journal of Scientific Research and Reports, 26(2): 60-69. <https://doi.org/10.9734/jsrr/2020/v26i230225>

2. Paul Butakor, Qi Guo and Atinuke O. Adebajji (2020). Using structural equation modeling to examine the relationship between Ghanaian teachers' emotional intelligence, job satisfaction, professional identity, and work engagement; *Psychology in the Schools*. Wiley Online, <https://doi.org/10.1002/pits.22462>.
3. David Adedia, Atinuke O. Adebajji and Simon Kojo Appiah (2020). Comparative Analysis of some Structural Equation Model Estimation methods with applications to Coronary Heart Disease Risk. *Hindawi Journal of Probability and Statistics*, 2020: <https://doi.org/10.1155/2020/4181426>.
4. Emmanuel D. J. Owusu-Ansah, Atinuke Adebajji and Eric Nimako-Aidoo (2020). Data Driven Modeling of Projected Mitigation and Suppressing Strategy Interventions for SARS-COV 2 in Ghana. *Populations and Evolution (q-bio.PE); Applications (stat.AP)*, arXiv:2004.0900.
5. Killian Asosega, David Adedia. and Atinuke Adebajji (2020). Sensitivity Analysis of the Quadratic Discriminant Function for Predicting Pregnancy Outcomes. *Journal of Scientific Research and Reports*, 26(2): 60-69. <https://doi.org/10.9734/jsrr/2020/v26i230225>
6. David Adedia, Atinuke O. Adebajji, Simon K. Appiah (2020). Comparative analysis of some structural equation model estimation methods with application to coronary heart disease risk. *Journal of Probability and Statistics*. <https://doi.org/10.1155/2020/4181426>
7. Simon K. Appiah, David Adedia, Livingstone Asem, Salifu Nanga, Yeboah Boateng, Kwabena O. Duedu (2020). Assessment of hypertension-induced deaths in Ghana: A nation-wide study from 2012 to 2016. *Journal of Data Analysis and Information Processing*, 8(3): 158-170.
8. Aidoo E.N., Simon K. Appiah & Alex Boateng (2020). Brief research report: A Monte Carlo simulation study of small sample bias in ordered logit model under multicollinearity. *The Journal of Experimental Education*, 88(1): 1-9.
9. Aidoo E.N., Williams Ackaah, Simon K. Appiah, Ernest K. Appiah, Joseph Addae, Haruna Alhassan (2019). A bivariate probit analysis of child passenger's sitting behaviour and restraint use in motor vehicle. *Accident Analysis & Prevention*, 129: 225-229. <https://doi.org/10.1016/j.aap.2019.05.022>.
10. Boateng, A., Claudio-Quiroga, G. and Gil-Alana, L.A., (2020). Exchange rate dynamics in South Africa, *Applied Economics*, Taylor & Francis Journals, 52(22): 2339-2352. <https://doi.org/10.1080/00036846.2019.1688245>.

11. Aidoo, E.N., Appiah, S.K. and Boateng, A., (2020). Brief research report: A Monte Carlo simulation study of small sample bias in ordered logit model under multicollinearity, *The Journal of Experimental Education*, DOI: 10.1080/00220973.2019.1708233
- Makwelantle Asnath Sehlabana, M. A., Maposa, D. and Boateng, A. (2020). Modelling Malaria Incidence in the Limpopo Province, South Africa: Comparison of Classical and Bayesian Methods of Estimation. *Int. J. Environ. Res. Public Health*, 17(14): 5016.
12. Nembidzane, C., Monyeke, K.D., Boateng, A. and Makgae, P.J., (2020). Using the SITAR Method to Estimate Age at Peak Height Velocity of Children in Rural South Africa. *Ellisras Longitudinal Study, Children*, 7(3): 17.
 13. Williams Ackaah & Eric N. Aidoo, (2020). Modelling risk factors for red light violation in the Kumasi Metropolis, Ghana. *International Journal of Injury Control and Safety Promotion*, DOI: [10.1080/17457300.2020.1792936](https://doi.org/10.1080/17457300.2020.1792936).
 14. Eric Nimako Aidoo, Simon K. Appiah & Alexander Boateng, (2020). Brief research report: A Monte Carlo simulation study of small sample bias in ordered logit model under multicollinearity. *The Journal of Experimental Education*, DOI: [10.1080/00220973.2019.1708233](https://doi.org/10.1080/00220973.2019.1708233).
 15. Aidoo E.N., Williams Ackaah, Simon K. Appiah, Ernest K. Appiah, Joseph Addae, Haruna Alhassan, (2019). A bivariate probit analysis of child passenger's sitting behaviour and restraint use in motor vehicle. *Accident Analysis & Prevention*, 129: 225-229, <https://doi.org/10.1016/j.aap.2019.05.022>.
 16. Samuel Asante Gyamerah, Edwin Moyo, (2020). Long-Term Exchange Rate Probability Density Forecasting Using Gaussian Kernel and Quantile Random Forest. *Complexity*, <https://doi.org/10.1155/2020/1972962>
 17. Samuel Asante Gyamerah, (2020). On forecasting the intraday Bitcoin price using ensemble of variational mode decomposition and generalized additive model, *Journal of King Saud University – Computer and Information Sciences*, <https://doi.org/10.1016/j.jksuci.2020.01.006>.
 18. Samuel Asante Gyamerah, Philip Ngare, Dennis Ikpe, (2020). Probabilistic forecasting of crop yields via quantile random forest and Epanechnikov Kernel function, *Agricultural and Forest Meteorology*, 280, <https://doi.org/10.1016/j.agrformet.2019.107808>.
 19. Isaac Adjei Mensah, Mei Sun, Cuixia Gao, Akoto Yaw Omari-Sasu, Huaping Sun, Benjamin Chris Ampimah, Alfred Quarcoo (2020). Investigation on key contributors of energy consumption in dynamic heterogeneous panel data (DHPD) model for African countries: fresh evidence from dynamic

common correlated effect (DCCE) approach. *Environmental Science and Pollution Research*, 27(31): 38674-38694.

20. Henry Martin, Peter Amoako-Yirenkyi, Aarne Pohjonen, Nana K Frempong, Jukka Komi, Mahesh Somani (2020). Statistical Modeling for Prediction of CCT Diagrams of Steels Involving Interaction of Alloying Elements. *Metallurgical and Materials Transactions B*, 52: 223–235, <https://doi.org/10.1007/s11663-020-01991-w>.
21. Smart A. Sarpong, Richard Kodzo Avuglah, N. N. N. Nsowah-Nuamah (2020). Application of Joint Generalized Linear Models in Determining Physical Support Factors that Influence Crop Yield in Northern Ghana. *Universal Journal of Agricultural Research*, 8(4): 124-130. <https://doi.org/10.13189/ujar.2020.080404>.
22. Gilbert Biney, Gabriel Asare Okyere, Abukari Alhassan (2020). Adaptive scheme for ANOVA models. *Journal of Advances in Mathematics and Computer Science*, 35(4): 12-23.
23. Onwona-Agyeman, G., Oduro, F. T., Okyere, G. A., & Obeng, A. (2020). Error Analysis of Meshfree Approximation in Nonlinear Black-Scholes Model. *Asian Journal of Probability and Statistics*, 8(3): 55-63. <https://doi.org/10.9734/ajpas/2020/v8i330210>
24. Portia Annabelle Opoku, Geophrey K Anornu, Abass Gibrilla, Emmanuel de-Graft Johnson Owusu-Ansah, Samuel Y Ganyaglo, Courage D Egbi, (2020). Spatial distributions and probabilistic risk assessment of exposure to heavy metals in groundwater in a peri-urban settlement: case study of Atonsu-Kumasi, Ghana. *Groundwater for Sustainable Development*, 10: 100327. DOI: 10.1016/j.gsd.2019.100327.
25. Tetteh AW, Thomford KP, Mensah ML, Boadu KO, Thomford AK, Amposah IK, Amofa G, Turkson BK, Agyemang MO, Owusu-Ansah ED, (2020). Ghanaian herbal medicines for malaria: An Evaluation of the Clinical Safety and Effectiveness of “Time Herbal Mixture” in uncomplicated malaria. *Phcog Res.*, 12:71-75.
26. Owusu-Ansah, Emmanuel De-Graft Johnson, Elvis K. Donkoh, Bernard Atta Adjei, Dominic Otoo, and Francois Mahama, (2020). Impact Optimization of Battery Energy Storage System In Microgrid Operation. (2020). *New York Business Global, Pure Appl. Math*, 13(1): 96-107.
27. Jonathan Kwaku Afriyie, Sampson Twumasi-Ankrah, Kwasi Baah Gyamfi, Doris Arthur, Wilhemina Adoma Pels, (2020). Evaluating the Performance of Unit Root Tests in Single Time Series Processes, *Mathematics and Statistics*, 8(6): 656-664, <https://dx.doi.org/10.13189/ms.2020.080605>.

28. Arti Singh, Gabriel Okello, Sean Semple, Fiona Dobbie, Tarja I Kinnunen, Kwabena F Lartey, Linda Bauld, Sampson T Ankrah, Ann McNeill, Ellis Owusu-Dabo, (2020). Exposure to secondhand smoke in hospitality settings in Ghana: Evidence of changes since implementation of smoke-free legislation. *Tobacco Induced Diseases*, 18: 44, <https://dx.doi.org/10.18332/tid/120934>
29. Samuel Nkansah Darko, Henry Hanson, Sampson Twumasi-Ankrah, Sandra Baffour-Awuah, Priscilla Adjei-Kusi, Denis Yar, Ellis Owusu-Dabo, (2020). Three monthly doses of 60 mg/kg praziquantel for *Schistosoma haematobium* infection is a safe and effective treatment regimen. *BMC Infectious Diseases*. 20: 1-9. <https://doi.org/10.1186/s12879-020-05053-z>
30. Twumasi-Ankrah, S., Pels, W.A., Danquah, D.K. and Arthur, D., (2020). Modeling the Effect of Climate Change and Economic Growth on food Security Indicators in Ghana. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 9(8). 909-917. DOI: 10.35940/ijitee.B7265.069820
31. Pels, W.A., Adebajji, A. O., Twumasi-Ankrah, S., (2020). Comparison of Parameter Estimators for Generalized Pareto Distribution under Peak over Threshold. *Mathematics and Statistics*, 8(6): 711-720. DOI: 10.13189/ms.2020.080612.

DEPARTMENT OF THEORETICAL AND APPLIED BIOLOGY

ACADEMIC STAFF

Professor:

R.C. Abaidoo	PhD (USA), MSc, BSc (Kumasi)
--------------	------------------------------

Associate Professors:

B.W. L. Lawson	PhD (UK), MSc, BSc (Kumasi)
P.K. Baidoo	PhD, MPhil, BSc, Dip.Ed (Cape Coast)
M.G. Addo	PhD (Kumasi), PhD (France) MSc (Norway), BSc (Kumasi), BSc (Norway), Cert.
W.G. Akanwariwiak	MPhil, BSc (Kumasi), Cert.
K.O. Owusu-Daaku	PhD, MSc, MSc (UK), BSc (Kumasi)

Senior Lecturers:

J.I. Adam	PhD (Norway), MPhil (Legon), BSc, Dip.Ed. (Cape Coast), ICCROM, GIMPA, Cert. (Italy)
J.A. Larbi	PhD, MPhil, BSc (Kumasi)
P.Addo–Fordjour	PhD (Malaysia), MSc, BSc (Kumasi)
A.K. Anning	PhD (US), MSc, BSc (Kumasi)
S. Akyeampong	MPhil (Cape Coast), BSc (Kumasi)
E.J. D. Belford	PhD (Germany), MSc, BSc (Sierra Leone)
L.A. Ofori	PhD (Denmark), MSc, BSc (Kumasi)
A.K. Apetorgbor	MPhil, BSc (Legon), Cert (Netherlands)

Lecturers:

J.L. Terlabie	MPhil (Legon), BSc, Dip.Ed (Cape Coast)
M.A. Arkoh	MPhil (Kumasi), BSc, Dip (Cape Coast)
K. Badu	PhD, MPhil, BSc (Kumasi)
A.A. Sylverken	PhD, MPhil, BSc (Kumasi)
S.A. Kwarteng	PhD, MPhil, BSc, Dip (Kumasi)
E. Awortwi	PhD, MPhil, BSc (Kumasi)
K. Boampong	PhD, MSc (UK), BSc (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Burimuah, V., Sylverken, A., Owusu, M., El-Duah, P., Yeboah, R., Lamptey, J., & Emikpe, B. (2020). Sero-prevalence, cross-species infection and serological determinants of prevalence of Bovine Coronavirus in Cattle, Sheep and Goats in Ghana. *Veterinary microbiology*, 241: 108544.
2. Simsek, C., Corman, V. M., Everling, H. U., Lukashev, A. N., Rasche, A., Maganga, G. D., & Gloza-Rausch, F. (2020). At least seven distinct rotavirus genotype constellations in bats with evidence of reassortment and zoonotic transmissions. *bioRxiv*. <https://doi.org/10.1101/2020.08.13.250464>
3. Sylverken, A. A., El-Duah, P., Owusu, M., Schneider, J., Yeboah, R., Ayisi-Boateng, A. B., & Aryeetey, S. (2021). Transmission of SARS-CoV-2 in

northern Ghana: insights from whole-genome sequencing. *Arch Virol*, <https://doi.org/10.1007/s00705-021-04986-3>

4. Burimuah, V., Sylverken, A., Owusu, M. et al. (2020). Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *BMC Vet Res.*, 16: 405, <https://doi.org/10.1186/s12917-020-02606-x>
5. Aloui-Zarrouk, Z., El Youssfi, L., Badu, K., Fagbamigbe, A. F., Matoke-Muhia, D., Ngugi, C., & Mwaura, G. (2020). The wearing of face masks in African countries under the COVID-19 crisis: luxury or necessity? *AAS Open Research*, 3(36): 36.
6. Badu, K., Thorn, J. P., Goonoo, N., Dukhi, N., Fagbamigbe, A. F., Kulohoma, B. W., & Sylverken, A. A. (2020). Africa's response to the COVID-19 pandemic: A review of the nature of the virus, impacts and implications for preparedness. *AAS Open Research*, 3(19): 19.
7. Addo, M. G., Raissa, M. A., Badu, K., & Agordzo, S. (2020). Bacterial Contamination of Chicken Eggs from Poultry Farms and Retail Markets in the New Juaben Municipality, Ghana. *Microbiology Research Journal International*, 30(7): 58-66.
8. Addo, M. G., Mutala, A. H., & Badu, K. (2020). A Comparative Study on the Antimicrobial Activity of Natural and Artificial (Adulterated) Honey Produced in Some Localities in Ghana. *Int. J. Curr. Microbiol. App. Sci*, 9(5): 962-972.
9. Awuah, F., Clement Abaidoo, R., & Badu, K. (2020). Determination of Faecal Contamination of the Groundwater Resources from Tano Districts of Ghana. *European Scientific Journal*, ESJ, 16(24), 173. <https://doi.org/10.19044/esj.2020.v16n24p173>
10. Addo, M. G., Mutala, A. H., & Badu, K. (2020). Comparison of Microbiological and Sensory Qualities of 'fufu' Processed from Grinding Machines and the Traditional Method at Ayigya in the Kumasi Metropolis, Ghana. *Microbiology Research Journal International*, 30(5): 20-26.
11. Tuffour-Mills, D., Antwi-Agyei, P., & Addo-Fordjour, P. (2020). Trends and drivers of land cover changes in a tropical urban forest in Ghana. *Trees, Forests and People*, 2: 100040. DOI: 10.1016/j.tfp.2020.100040
12. Addo-Fordjour, P., Ofosu-Bamfo, B., Kwofie, F., Akyea-Bobi, N., Rahman, F. A., & Amoah, E. (2020). Changes in liana community structure and functional traits along a chronosequence of selective logging in a moist semi-deciduous forest in Ghana. *Plant Ecology & Diversity*, 13(1): 75-84.

13. Matthew Glover Addo, Samuel Agordzo and Kingsley Badu (2020). Efficacy of Vinegar, Salt Solution and Lemon Juice as Antimicrobial Agents in Reducing the Microbial Load of Lettuce sold at Ayeduase, a suburb of Kumasi, Ghana. *International Journal of Current Research*, 12(04): 10036-10042.
14. Addo-Fordjour, P., Boakye, E.K. & Rahmad, Z.B. (2020). Logging and topographic effects on tree community structure and habitat associations in a tropical upland evergreen forest. *Ghana Journal of Forestry Research* (IF1.689), DOI: 10.1007/s11676-020-01203-wP.
15. Paintsil, E. K., Omari-Sasu, A. Y., Addo, M. G., & Boateng, M. A. (2019). Analysis of Haematological Parameters as Predictors of Malaria Infection Using a Logistic Regression Model: A Case Study of a Hospital in the Ashanti Region of Ghana. *Malaria research and treatment*, doi: 10.1155/2019/1486370
16. Adu-Gyamfi, P., Larbi, J. A., & Addo, M. G. (2020). Water quality index (WQI) and bacteriological assessment of some selected hand-dug wells in the Adenta municipality, Ghana. *African Journal of Microbiology Research*, 14(8): 402-409.
17. Bekoe, A., Azorliade, R., Ablordey, A., & Addo, M. G. (2020). Antibiotic resistance and genotypic detection of extended spectrum beta-lactamase producing pathogens in catheter associated urinary tract infection at a teaching facility in Kumasi, Ghana. *African Journal of Microbiology Research*, 14(8): 395-401.
18. Adu-Poku, M., & Addo, M. G. (2020). Antimicrobial Susceptibility Profile of Urinary Tract Pathogenic Infections in Diabetic Patients Attending a Health Facility in Kumasi, Ghana. *International Journal of Pathogen Research*, 4(2): 37-45. DOI: 10.9734/ijpr/2020/v4i230109
19. Ofori, I., Larbi, J. A., Abubakari, A., Addo, M. G., & Essiaw-Quayson, G. (2019). Microbial and Chemical Risk Assessment of River Bukuruwa Used as Drinking Water by Farming Communities. *International Journal of Biology*, 11(1): 22-28
20. Azanu, D., Jørgensen, S. E., Darko, G., Styrihave, B., & Abaidoo, R. C. (2020). Antibiotic Uptake by Plant Model. *Environmental Modeling & Assessment*, 25: 545–553. <https://doi.org/10.1007/s10666-020-09712-y>
21. Ulzen J, Abaidoo RC, Ewusi-Mensah N, Osei O, Masso C and Opoku A (2020) Organic Manure Improves Soybean Response to Rhizobia Inoculant and P-Fertilizer in Northern Ghana. *Front. Agron.* 2:9. doi: 10.3389/fagro.2020.00009

22. Essel, B., Abaidoo, R. C., Opoku, A., & Ewusi-Mensah, N. (2020). Economically Optimal Rate for Nutrient Application to Maize in the Semi-deciduous Forest Zone of Ghana. *Journal of Soil Science and Plant Nutrition*, 20:1703-1713, <https://doi.org/10.1007/s42729-020-00240-y>
23. Issoufa, B. B., Ibrahim, A., & Abaidoo, R. C. (2020). Agronomic and economic benefits of integrated nutrient management options for cowpea production. *Experimental Agriculture*, 56(3): 440-452.
24. Ankar-Brewoo, Gloria Mathanda, Godfred Darko, Robert Clement Abaidoo, Anders Dalsgaard, Paa-Nii Johnson, William Otoo Ellis, and Leon Brimer (2020). Health risks of toxic metals (Al, Fe and Pb) in two common street vende d foods, fufu and fried-rice, in Kumasi, Ghana. *Scientific African*, 7: e00289. <https://doi.org/10.1016/j.sciaf.2020.e00289>.
25. Ulzen, J., Abaidoo, R. C., Ewusi-Mensah, N., & Masso, C. (2020). Combined application of inoculant, phosphorus and organic manure improves grain yield of cowpea. *Archives of Agronomy and Soil Science*, 66(10): 1358-1372.
26. Uka, U. N., & Belford, E. J. (2020). Response of roadside tree leaves in a tropical city to automobile pollution. *Notulae Scientia Biologicae*, 12(3): 752-768. <https://doi.org/10.15835/nsb12310703>
27. Nyarko RA, Larbie C, Anning AK, Baidoo PK (2019). Phytochemical constituents, antioxidant activity and toxicity assessment of hydroethanolic leaf extract of *Griffonia simplicifolia*. *International Journal of Phytopharmacology*, 10(1): 6-18.
28. Dogor GKF, Anning AK, Oteng-Yeboah A (2019). Plant diversity and distribution patterns in a tropical montain forest in Ghana. *Journal of the Ghana Science Association*, 18(2): 1-10.
29. Osei-Twumasi, D., Fei-Baffoe, B., Anning, A. K., & Danquah, K. O. (2020). Synergistic effects of compost, cow bile and bacterial culture on bioremediation of hydrocarbon-contaminated drill mud waste. *Environmental Pollution*, 266: 115202.
30. Osei-Twumasi, D., Fei-Baffoe, B., Anning, A. K., & Danquah, K. O. (2020). Biodegradation of Hydrocarbon-Contaminated Drill Mud Waste with Compost and Cow Bile. *Environmental Processes*, 7: 1111-1127. DOI:10.1007/s40710-020-00464-1
31. Dogor G.F.K., AK Anning, A Oteng-Yeboah (2019). Plant diversity and distribution patterns in a tropical mountain forest in Ghana. *Journal of Ghana Science Association*, 18(2): 1-10.

32. Belford, E. J. (2020). Response of roadside tree leaves in a tropical city to automobile pollution. *Notulae Scientia Biologicae*, 12(3), 752-768.
33. Motey, G. A., Johansen, P. G., Owusu-Kwarteng, J., Ofori, L. A., Obiri-Danso, K., Siegumfeldt, H., ... & Jespersen, L. (2020). Probiotic potential of *Saccharomyces cerevisiae* and *Kluyveromyces marxianus* isolated from West African spontaneously fermented cereal and milk products. *Yeast*, 37(9-10): 403-412. doi: 10.1002/yea.3513.
34. Egyir, N. A., Lawson, B. W. L., Desewu, K., Ampofo-Bekoe, R., Kumalo, H. M., & Amoako, D. G. (2019). Susceptibility of Anopheles Mosquito to Agricultural Insecticides in The Adansi North District, Ghana. *J Pure Appl Microbiol*, 13(2): 677-688.
35. Larbi, J. A., Akyeampong, S., Abubakari, A., Offei Addo, S., Okoto, D., & Hanson, H. (2020). Zoonotic Gastrointestinal Parasites of Baboons (*Papio anubis*) in the Shai Hill Reserve in Ghana. *BioMed Research International*, <https://doi.org/10.1155/2020/1083251>
36. Larbi, J. A., Akyeampong, S., Addo, S. O., Dakwa, K. B., Boampong, K., & Opoku-Nketiah, B. (2020). Distribution of intestinal parasites of baboons (*Papio anubis*) and warthogs (*Phacochoerus aethiopicus*) at the Mole National Park, Ghana. *Veterinary Medicine and Science*, 7(1): 251-255.
37. Otchere, K. G., Adam, J. I., Larbi, J. A., Basil, S. A., & Banunle, A. (2020). Analysis of insecticide residues in cabbage (*Brassica oleracea* var. *Capitata*) from three major markets in Kumasi. *Ann Environ Sci Toxicol*, 4(1): 019-023.
38. Osei, M. A., Amekudzi, L. K., Wemegah, D. D., Preko, K., Gyawu, E. S., & Obiri-Danso, K. (2019). The impact of climate and land-use changes on the hydrological processes of Owabi catchment from SWAT analysis. *Journal of Hydrology: Regional Studies*, 25: 100620.
39. Nimo-Paintsil, Shirley C., Elisabeth Fichet-Calvet, Benny Borremans, Andrew G. Letizia, Emad Mohareb, Joseph HK Bonney, Kwasi Obiri-Danso, William K. Ampofo, Randal J. Schoepp, and Karl C. Kronmann (2019). Rodent-borne infections in rural Ghanaian farming communities. *PloS one*, 14(4): e0215224.
40. Kumasi, T. C., Antwi-Agyei, P., & Obiri-Danso, K. (2019). Small-holder farmers' climate change adaptation practices in the Upper East Region of Ghana. *Environment, Development and Sustainability*, 21(2): 745-762.
41. Darko, S. N., Hanson, H., Twumasi-Ankrah, S., Baffour-Awuah, S., Adjei-Kusi, P., Yar, D., & Owusu-Dabo, E. (2020). Three monthly doses of 60 mg/kg praziquantel for *Schistosoma haematobium* infection is a safe and

- effective treatment regimen. *BMC Infectious Diseases*, 20: 1-9. <http://doi.org/10.1186/s12879-020-05053-z>
42. El-Duah, P., Dei, D., Binger, T. Sylverken A. et al. (2020). Detection and genomic characterization of hepatitis E virus genotype 3 from pigs in Ghana, Africa. *One Health Outlook* 2(10). <https://doi.org/10.1186/s42522-020-00018-3>.
 43. Awotwi, Alfred, Geophrey Kwame Anornu, Jonathan Arthur Quaye-Ballard, Thompson Annor, Eric Kwabena Forkuo, Emmanuel Harris, Jacob Agyekum, and John Lawer Terlabie (2019). Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986–2025. *Catena* 182: 104129.
 44. Captain-Esoah, M, Baidoo, P. K., Frempong, K. K., Adabie-Gomez, D., Chabi, J., Obuobi, D., et al., (2019). Biting behaviour and molecular identification of *Aedes aegypti* (Diptera:Culicidae) subspecies in some selected recent yellow fever outbreak communities in northern Ghana. *Journal of Medical Entomology*, 20(10): 1-7
 45. Owusu, M., Acheampong, G., Annan, A. et al. (2019). *Ralstonia mannitolilytica* sepsis: a case report. *J Med Case Reports*, 13: 318. <https://doi.org/10.1186/s13256-019-2235-0>
 46. Baah G.A., and Bernard Walter Lawson (2019). Mercury distribution and concentration in the Nile Tilapia (*Oreochromis niloticus*) and catfish (*Clarius gariepinus*). *International Journal of Science and Technology*, 14(12): 15-25.
 47. Attram, N., Lawson, B. W., Desewu, K., Ampofu-Bekoe, R., Kumalo, M. H., & Amoako, D. (2019). Susceptibility of Anophele mosquito to agricultural insecticides in the Adansi North District, Ghana. *Journal of Pure and Applied Microbiology*, 13(2): 677-688
 48. Boampong, Kwadwo (2019) Identification and characterisation of toxin-antitoxin systems in *Helicobacter pylori* tfs ICEs. PhD thesis, University of Nottingham
 49. El-Duah, P., Dei, D., Binger, T. et al. (2020). Detection and genomic characterization of hepatitis E virus genotype 3 from pigs in Ghana, Africa. *One Health Outlook* 2: 10. <https://doi.org/10.1186/s42522-020-00018-3>
 50. Mugabe, J.O., Kulohoma, B.K., Matoke-Muhia, D., Ubalijoro, E., Fagbamigbe, F.A., Mwaura, G., Gitaka, J., Thorn, J.P.R., Badu, K., Muchie, M. and Dukhi, N., (2020). Securing Africa's health sovereignty: why investing in science and innovation matters [version 1; not peer reviewed]. *AAS Open Res* 2020, 3: 52 (document), <https://doi.org/10.21955/aasopenres.1115135.1>

51. Gloria Mathanda Ankar-Brewoo, Godfred Darko, Robert Clement Abaidoo, Anders Dalsgaard, Paa-Nii Johnson, William Otoo Ellis & Leon Brimer (2020) Dietary Risk Assessment Due to the Consumption of Polycyclic Aromatic Hydrocarbon in Two Commonly Consumed Street Vended Foods. Polycyclic Aromatic Compounds, DOI: 10.1080/10406638.2020.1830128.

CONFERENCE/PROCEEDINGS/WORKSHOP ATTENDANCE/PAPERS

1. Afolayan, O. D., Firempong, C. K., Komlaga, G., Addo-Fordjour, P., & Narkwa, P. W. (2019). Universal access to healthcare-the role of the health Scientist. Convention of Biomedical Research Ghana. KNUST School of Business, Kumasi, July 30-31.
2. Mutala, Abdul-Hakim, Kingsley Badu, Austine Tweneboah, Samul Agordzo, and Dawood Ackom Abbas (2019). Accuracy of diagnosis and haematological difference among malaria patients in rural and urban areas in the Ashanti Region of Ghana. BMJ Global Health, 4(Suppl 3), <http://dx.doi.org/10.1136/bmjgh-2019-EDC.121>
3. Badu (2019). Secreted ookinete protein as a marker of infectious bites for assessing transmission dynamics at the population level. BMJ Global Health, 4(Suppl 3), <http://dx.doi.org/10.1136/bmjgh-2019-EDC.139>
4. Coleman S, Dadzie SK, Yihdego Y, Gyamfi, F Kolyada L, Dengela D, Seyoum A, Tongren JE, Zigirumugabe S, Dery D, George K, Armistead J, Appawu MA, Badu K, Obiri-Danso K, Boakyie D, Szumlas D., (2019). Feeding And Resting Behavior of Anopheles Gambiae Sl In Areas Getting Indoor Residual Spraying For Malaria Vector Control And Areas Not Sprayed In Northern Ghana. In American Journal of Tropical Medicine and Hygiene 8000 Westpark Dr, Ste 130, Mclean, Va 22101 USA. Amer Soc Trop Med & Hygiene, 101: 589-590.

LABORATORY FOR INTERDISCIPLINARY STATISTICAL ANALYSIS (LISA)

ACADEMIC STAFF

Associate Professor:

- A. O. Adebajji PhD (Nigeria), MPH (Kumasi), MSc (Nigeria), BSc (Nigeria)

Lecturers:

E. J. Owusu-Ansah DeGraft	PhD, MPhil, BSc (Kumasi)
A. Boateng	PhD, MPhil (Cape Coast), BEd (Akrokerri)
S. A. Gyamerah	PhD (Kenya), MPhil (Kumasi), BSc (Cape Coast)
G. E. Awashie	PhD, MPhil, BSc (Kumasi)
E. N. Aidoo	PhD (Australia), MSc (Germany), BSc (Kumasi)

Assistant Lecturer:

*W. A. Pels MPhil (Kumasi), MSc (Senegal), BSc (Kumasi)

*Part-Time

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Adedia D., Adebajji A.O., and Appiah S.K. (2020). Comparative Analysis of Some Structural Equation Model Estimation Methods with Application to Coronary Heart Disease Risk. *Journal of Probability and Statistics*, vol. 2020, Article ID 4181426, 15 pages, 2020. <https://doi.org/10.1155/2020/4181426>
2. Asosega, K. A., Adedia, D. and Adebajji, A. O. (2020); Sensitivity Analysis of the Quadratic Discriminant Function for Predicting Pregnancy Outcomes. *Journal of Scientific Research and Reports*, 26(2): 60-69. <https://doi.org/10.9734/jsrr/2020/v26i230225>
3. Owusu Ansah E.D.J., Adebajji A.O., and Nimako-Aidoo E. (2020); Data driven modelling of projected mitigation and suppressing strategy interventions for SARS-COV 2 in Ghana, *Quantitative Biology-Populations and Evolution*, arXiv. <https://arxiv.org/abs/2004.09009v1>
4. Ocran, E. K., Adebajji, A. O. and Sarpong, S (2019); Modelling domestic tourism demand for Ghana. *Journal of Tourism, Hospitality and Sports*, 40: 94-109. DOI:10.7176/jths/40-09
5. Ocran, E. K., Adebajji, A. O. and Sarpong, S (2019). The impact of socio-demographic factors on domestic tourism expenditure in Ghana. *Journal of Tourism, Hospitality and Sports*, 41: 35-45.
6. Pels, W.A., Twumasi-Ankrah, S. and A. O. Adebajji (2019); Information Criterion for Selecting Competing Models using different Weighting Schemes. *International Journal of Applied Mathematics and Statistics*, 58(2): 54-63.

7. Twumasi-Ankrah, S., Pels, W. A., Danquah, D. K., Arthur, D. (2020). Modeling the effect of climate change and economic growth on food security indicators in Ghana. *International Journal of Innovative Technology and Exploring Engineering*, <https://doi.org/10.35940/ijitee.B7265.0698205>
8. Opoku, P. A., Anornu, G. K., Gibrilla, A., Owusu-Ansah, E. D. G. J., Ganyaglo, S. Y., & Egbi, C. D. (2020). Spatial distributions and probabilistic risk assessment of exposure to heavy metals in groundwater in a peri-urban settlement: case study of Atonsu-Kumasi, Ghana. *Groundwater for Sustainable Development*, 10: 100327, <https://doi.org/10.1016/j.gsd.2019.100327>
9. Tetteh, A. W., Thomford, K. P., Mensah, M. L., Boadu, K. O., Thomford, A. K., Amposah, I. K., ... & Owusu-Ansah, E. D. (2020). Ghanaian herbal medicines for malaria: An Evaluation of the Clinical Safety and Effectiveness of "Time Herbal Mixture" in uncomplicated malaria. *Pharmacognosy Research*, 12(1): 71.
10. Adjei, B., Donkoh, E. K., Otoo, D., Owusu-Ansah, E. D. G. J., & Mahama, F. (2020). Impact Optimization of Battery Energy Storage System in Microgrid Operation. *European Journal of Pure and Applied Mathematics*, 13(1): 96-107.
11. Donkoh, E. K., Davis, R., Owusu-Ansah, E. D., Antwi, E. A., & Mensah, M. (2019). Application of combinatorial techniques to the Ghanaian board game Zaminamina draft. *European Journal of Pure and Applied Mathematics*, 12(1): 159-175.
12. Boateng, A., Claudio-Quiroga, G. and Gil-Alana, L.A., (2020). Exchange rate dynamics in South Africa. *Applied Economics*, 52(22): 2339-2352 <https://doi.org/10.1080/00036846.2019.1688245>
13. Aidoo, E.N., Appiah, S.K. and Boateng, A., (2020). Brief research report: A Monte Carlo simulation study of small sample bias in ordered logit model under multicollinearity. *The Journal of Experimental Education*, <https://doi.org/10.1080/00220973.2019.1708233>
14. Makwelantle Asnath Sehlabana, M. A., Maposa, D. and Boateng, A. (2020). Modelling Malaria Incidence in the Limpopo Province, South Africa: Comparison of Classical and Bayesian Methods of Estimation. *Int. J. Environ. Res. Public Health*, 17(14): 5016.
15. Nembidzane, C., Monyeke, K.D., Boateng, A. and Makgae, P.J., (2020). Using the SITAR Method to Estimate Age at Peak Height Velocity of Children in Rural South Africa: Ellisras Longitudinal Study. *Children*, 7(3): 17. <https://doi.org/10.3390/children7030017>

16. Gyamerah, S. A., Moyo E. (2020). Long-term exchange rate probabilistic forecasting using Gaussian kernel and quantile random forest. Complexity. <https://doi.org/10.1155/2020/1972962>
17. Gyamerah, S. A., (2020). On forecasting the intraday Bitcoin price using ensemble of variational model decomposition and Generalized additive model. Journal of King Saud University-Computer and Information Sciences. <https://doi.org/10.1016/j.jksuci.2020.01.006>
18. Gyamerah, S. A., Ngare P, and Ikpe, D. (2020). Probabilistic forecasting of crop yields Via Quantile Random Forest and Epanechnikov kernel function. Agricultural and Forest Meteorology, 280. <https://doi.org/10.1016/j.agrformet.2019.107808>
19. Gyamerah, S. A. (2019). Modelling the volatility of Bitcoin Returns using GARCH models. Quantitative Finance and Economics, 3(4): 739-753. <https://doi.org/10.3934/QFE.2019.4.739>
20. Gyamerah, S. A., Ngare P, and Ikpe, D. (2019). Mitigating geographical basis risk of weather derivatives using spatial-temporal regime switching temperature models. AIMS Mathematics, 4(4): 1274-1290. <https://doi.org/10.3934/math.2019.4.1274>
21. Awashie, G. E., Amoako-Yirenkyi, P., & Dontwi, I. K. (2019). Chebyshev wavelets collocation method for simulating a two-phase flow of immiscible fluids in a reservoir with different capillary effects. Journal of Petroleum Exploration and Production Technology, 9(3): 2039-2051.
22. Ackaah, W., & Aidoo, E. N. (2020). Modelling risk factors for red light violation in the Kumasi Metropolis, Ghana. International journal of injury control and safety promotion, 27(4): 432-437. <https://doi.org/10.1080/17457300.2020.1792936>
23. Aidoo, E. N., & Ackaah, W. (2019). A generalized ordered logit analysis of risk factors associated with driver injury severity. Journal of Public Health, 1-7. <https://doi.org/10.1007/s10389-019-01135-8>
24. Aidoo, E. N., Ackaah, W., Appiah, S. K., Appiah, E. K., Addae, J., & Alhassan, H. (2019). A bivariate probit analysis of child passenger's sitting behaviour and restraint use in motor vehicle. Accident Analysis & Prevention, 129: 225-229. <https://doi.org/10.1016/j.app.2019.05.022>

DEPARTMENT OF MATHEMATICS

ACADEMIC STAFF

Professors:

#I. K. Dontwi PhD (Ukraine), MSc (Kishnev), BSc (Kumasi)

Associate Professors:

K.F. Darkwah MSc, BSc (Kumasi)

W. Obeng-Denteh (Rev.) PhD, MSc, BSc (Kumasi)

J.A. Ackora-Prah PhD, MSc, BSc (Kumasi)

Senior Lecturers:

K. Baah Gyamfi PhD (Kumasi), MSc (Norway), BSc (Kumasi)

C. Sebil PhD, MSc, BSc (Kumasi)

P.A. Yirenkyi PhD, BSc (Kumasi)

Y.E. Ayekple PhD, MSc, BSc (Kumasi)

R.K. Boadi PhD (Kumasi), MSc (UK), BSc (Kumasi)

E.Owusu-Ansah MSc, BSc (Kumasi)

Lecturers:

G. Parker-Lamptey PhD, MPhil, BSc (Kumasi)

J. Ezearn PhD, MPhil, BSc (Kumasi)

G.E. Awashie PhD, MPhil, BSc (Kumasi)

I. Takyi PhD, MSc (South Africa), BSc (Legon)

B. Barnes PhD, MPhil (Kumasi), BSc (Cape Coast)

A. Sakyi PhD, MPhil, BSc (Kumasi)

R.N. Borkor PhD, MPhil, BSc (Kumasi)

K. Amouzouvi BSc, MSc, PhD (South), MSc (Saltpond), BSc (Togo)

B.E. Owusu PhD (Thailand), MSc, BSc (Kumasi)

B.O. Bainson

PhD (UK), MSc (Kumasi) BSc (Cape Coast)

Part-Time Lectures:

K. A. Awuah-Mensah

BSc, Mphil, PhD

E. Bonyah

BSc, Mphil, PhD

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Okyere, E., Ackora-Prah J., Oduro, F. T. (2020). A Caputo based sirs and sis fractional order models with standered incidence rate and varying population. *Communications in Mathematical Biology and Neuroscience*, 2020: 1-25, 60.
2. Asare J.O., J. K. Appati and K. Darkwah (2020). Formulation and Analysis of Patterns in a Score Matrix for Global Sequence and Alignment. *International Journal of Mathematics and Mathematical Sciences*. <https://doi.org/10.1155/2020/3858057>
3. Gyimah K., J. K. Appati, K. Darkwah and K. Ansah (2019). An Improved Geo Textual Based Features Extraction Vector for Offline Signature Verification. *Journal of Advances in Mathematics and Computer Science*, 32(2): 1-14.
4. Aidoo A., K. B. Gyamfi and F. Yang (2019). Construction of Irreducible Polynomials in Galois fields, GF. *Journal of Advances in Mathematics and Computer Science*, 33(3): 1-6.
5. Gyamfi K.B., E. Akweitley and M. A. Sarpong (2020). Galois Fields and some of its Applications. *International Journal of Scientific and Research Publications*; 10(5): 336-341.
6. Akweitley E., K. B. Gyamfi and G. O. Fosu (2019). On the Solution of an Inverse Eigenvalue Problem by Newton's Method on a Fibre Bundle with Structure Group $SO(n)$. *International Journal of Mathematics Trends and Technology*, 63(12): 83-93.
7. Boateng F.O., J. Ackora-Prah and A. Y. Aidoo (2019). Solution to the Dirichlet Problem on Irregular Domains Using Wavelet-Based Approach. *Journal of Advances in Mathematics and Computer Science*, 30(1): 1-14.
8. Brew L., W. Obeng-Denteh and F. Asante-Mensah (2020). Analytical Consideration of Growth in Population via Homological Invariant in Algebraic Topology. *Journal of Mathematics*, 2020. <https://doi.org/10.1155/2020/4948304>

9. Effah-Poku S., W. Obeng-Dentah and I. K. Dontwi (2018). A Study of Chaos in Dynamical Systems. *Journal of Mathematics*, 2018.. <https://doi.org/10.1155/2018/1808953>
10. Eghan R.E., P. Amoako-Yirenkyi, A. Y. Omari-Sasu and N. K. Frimpong (2019). Time-Frequency Coherence and Forecast Analysis of Selected Stock Returns in Ghana Using Haar Wavelet. *Journal of Advances in Mathematics and Computer Science*, 30(5): 1-12.
11. Owusu – Ansah E.D.J., B. Barnes, E. K. Donkoh, J. Appau, B. Effah and M. M. Nartey (2019). Quantifying Economic Risk: An Application of Extreme Value Theory for Measuring Fire Outbreaks Financial Loss. *Financial Mathematics and Applications*, 4(1): 1-12.
12. Barnes B., F. O. Boateng, C. Sebil, E. Owusu (2020). Mathematical Modelling of Wastes Pile-Up in Kwadaso Municipality in Ashanti, Ghana. *European Journal of Pure and Applied Mathematics*, 13: 893-913.
13. Awashie G.E., P. Amoako-Yirenkyi, I. K. Dontwi (2019). Chebyshev Wavelets Collocation Methods for Simulating a Two-Phase Flow and Immiscible Fluids in a Reservoir with Different Capillary Effects. *Journal of Petroleum Exploration and Production Technology*, Springer, 9(3): 2039-2051.
14. Adu S., P. Amoako-Yirenkyi and I. K. Dontwi (2019). A Formal Homogenization Approach to Piping Flow Erosion with Deposition in a Spatially Heterogeneous Soil. *Journal of Advances in Mathematics and Computer Science*, 35(3):26-45.
15. Adu S., P. Amoako-Yirenkyi and I. K. Dontwi (2019). A Rigorous Homogenization in a Two-Scale Convergence Approach to Piping Flow Erosion with Deposition in a Spatially Heterogeneous Soil. *Journal of Advances in Mathematics and Computer Science*, 35(3): 9-25
16. Takyi I. and H. Weigel (2019). Nucleon Structure Functions from the NJL – Model Chiral Soliton. *European Journal of Physics A*, 55: 128-148.
17. Weigel H. and I. Takyi (2020), Chiral Soliton Models and Nucleon Structure Functions. *Symmetry*; Vol. 13 pp 108-147.
18. Takyi I., M. K. Matfunjwa and H. Weigel (2020), Quantum Corrections to Solitons in the Phi-8 Model. *Physics Review D*; Vol. 102 pp 116004-116013.

CONFERENCE/PROCEEDINGS/WORKSHOP ATTENDANCE/PAPERS

1. Taki I., and H. Weigel (2019). Structure Functions of the Nucleon in a Soliton Model. *The Physical Society of Japan Conference Proceeding*, ; Vol. 26, pp. 031002-031007.

DEPARTMENT OF PHYSICS

ACADEMIC STAFF

Professor Emeritus:

K. Singh PhD, MSc, BSc (India), DSc (Kumasi), FGInstP, CPhys, FInstP

Professors:

A. Menyeh PhD, MSc (UK), BSc (Kumasi), CPhys, MInstP

F. Boakye PhD, MSc, BSc (Kumasi)

R.K. Nkum DSc (Israel), MSc, BSc (Kumasi), CPhys, MInstP

S.K. Danuor PhD, BSc (Kumasi), MSc (Germany), MInstP, MGhInstG, FGA

Associate Professors:

L.K. Amekudzi PhD (Germany), MPhil, BSc, DipEd (Cape Coast), MInstP

K. Preko Dr.rer.nat., MSc (Germany), BSc (Kumasi)

R.Y. Tamakloe PhD, MSc, BSc (Kumasi), PGDE (Cape Coast)

K. Ampong PhD, MPhil, BSc (Kumasi)

Senior Lecturers:

A.A. Aning PhD (France), MSc, BSc (Kumasi)

E.C.K. Addison MSc, BSc (Kumasi)

E.K.K. Abavare PhD (Japan), MSc, BSc (UK)

B. Kwakye-Awuah PhD (UK), MSc (Germany), BSc (Cape Coast)

V.S. Asare MSc, BSc (Kumasi)

D.D. Wemegah PhD, MSc (Kumasi), BSc (Legon)

I. Nkrumah MSc (Sweden), MSc, BSc (Kumasi)

E. Quansah PhD (Nigeria), MIS (UK), MSc (Germany), BSc, Dip Ed (Cape Coast)

T. Annor	PhD (Nigeria), MSc (Germany), BSc Kumasi
M.K.E. Donkor	PhD, BSc (Kumasi)
R.M. Noye	MSc, BSc (Kumasi)

Lecturers:

O.A. Nunoo	MSc., BSc (Kumasi)
A. Britwum	PhD., MSc., BSc (Kumasi)
E.I. Yamba	PhD (Germany), MSc., BSc (Kumasi)
J. N. A. Aryee	PhD., MPhil., BSc (Kumasi)
W. A. Atiah	PhD (Kumasi), MSc (Senegal), BSc (Kumasi)
M. Owusu-Mensah	PhD., MSc (France), BSc (Kumasi)
C. Subaar	PhD (Cape Coast), MPhil (Legon), BSc., Cer't "A", (Tamale)
H. Martin	PhD (Kumasi), MSc (Italy), BSc (Kumasi), Dip., Adv Dip (UK)
C. D. Boateng	PhD (China), MSc., BSc (Kumasi)

Part-Time Lecturer:

J.K. Gbadago	PhD (Legon), MSc (Legon), PG.Dip (South Africa), BSc (Kumasi)
--------------	---

Technicians:

E. K. Bawa	HND (Kumasi)
E. Amoah	Dip (Kumasi)
W. Acheampong	BSc (Kumasi)
M. A. Kusi	HND (Sunyani)
T. Dwomoh	HND (Kumasi)
R. Asumadu	HND (Takoradi)
J. Lutuga	HND (Kumasi)

ARTICLES PUBLISHED IN REFEREED JOURNALS

1. Atiah W. A., G. Mengistu Tsidu and L. K. Amekudzi (2020). Investigating the merits of gauge and satellite rainfall data at local scales in Ghana, West Africa. *Weather and Climate Extremes*, 30:100292 DOI: 10.1016/j.wace.2020.100292
2. Nyatuame M., L. K. Amekudzi, and S. K. Agodzo (2020). Assessing the land use/land cover and climate change impact on water balance on Tordzie watershed. *J. Remote Sens App: Society and Environment*, 20: 100381, doi.org/10.1016/j.rsase.2020.100381
3. Osei M.A., L. K. Amekudzi, C. R. Ferguson, and S. K. Danuor (2020). Inter-Comparison of AIRS Temperature and Relative Humidity Profiles with AMMA and DACCIIWA Radiosonde Observations over West Africa. *Remote Sens.*, 12(16), 2631. <https://doi.org/10.3390/rs12162631>
4. Nyamekye C., Schönbrodt-Stitt S., Amekudzi L.K., Zoungrana B.J-B., and Thiel M. (2020). Usage of MODIS NDVI to evaluate the effect of soil and water conservation measures on vegetation in Burkina Faso. [Land Degrad Dev. 2021](https://doi.org/10.1002/ldr.3654), 32: 7–19. <https://doi.org/10.1002/ldr.3654>.
5. Wemegah C.S., E.I. Yamba, J.N.A. Aryee, F. Sam, and L.K. Amekudzi (2020). Assessment of Urban Heat Island Warming in the Greater Accra Region. *Scientific African*, 8: e00426. DIO: 10.1016/j.sciaf.2020.e00426.
6. Atiah W. A., L. K. Amekudzi, Aryee J. N. A, K. Preko and S. K. Danuor (2020). Validation of Satellite and Merged rainfall data over Ghana, West Africa. *Atmosphere*, 11(8): 859. <https://doi.org/10.3390/atmos11080859>
7. Atiah W. A., G. Mengistu Tsidu, L. K. Amekudzi, and C. Yorke (2020). Trends and Interannual variability of extreme rainfall indices over Ghana, West Africa. *Journal of Theoretical and Applied Climatology*, 140: 1393–1407. <https://doi.org/10.1007/s00704-020-03114-6>
8. Maranan M., A. H. Fink, P. Knippertz, L.K. Amekudzi W. A. Atiah and M. Stengel (2020). A process-based validation of GPM IMERG and its sources using a mesoscale rain gauge network in the West African forest zone. *Journal of Hydrometeorology*, 21(4): 729-749. DIO:10.1175/JHM-D-19-0257.1
9. Yamba E. I., A. M. Tompkins, A. H. Fink, V. Ermert, M.D. Amelie, L. K. Amekudzi and O. J. T. Briët (2020). Monthly Entomological Inoculation Rate data for studying the seasonality of malaria transmission in Africa. *Data*, 5(2): 31. <https://doi.org/10.3390/data5020031>
10. Aryee J. N. A, L.K. Amekudzi, K. Preko, W. A. Atiah, and S. K. Danuor, (2019). Estimation of planetary boundary layer height from radiosonde profiles over West Africa during the AMMA field campaign: Intercomparison of

- different methods. *Scientific Africa*, 7: e00228. DIO: 10.1016/j.sciaf. 2019. e00228
11. Osei M. A., L. K. Amekudzi, D. D. Wemegah, K. Preko, E. S. Gyawu and K. Obiri-Danso, (2019). The impact of climate and land-use changes on the hydrological processes of Owabi catchment from SWAT analysis. *Journal of Hydrology: Regional Studies*, 25100620. DIO: 10.1016/j.ejrh.2019.100620
 12. Forson E.D., Menyeh A., Wemegah D.D., Danuor S.K., Adjovu, I., Appiah I., (2020). Mesothermal gold prospectivity mapping of the southern Kibi-Winneba belt of Ghana based on Fuzzy analytical hierarchy process, concentration-area (C-A) fractal model and prediction-area (P-A) plot. *Journal of Applied Geophysics*, 174. <https://doi.org/10.1016/j.jappgeo.2020.103971>.
 13. Aning, A.A., Asare V.S., Wemegah, D.D., Noye R.M., Preko, K. and Danuor S.K., (2019). Integrated geophysical and geological mapping of the lithological and geological structures in a proposed generator site. *Journal of Geoscience and Environment. Protection* 7(12): 73. <https://doi.org/10.4236/gep.2019.712005>.
 14. Brempong, F., Wemegah, D.D., Preko, K., Armah, T., Boadi, B., Menyeh, A., Oppong, I.A., Quarshie, M.M., Aning, A.A., Asare, V.S. and Noye, R.M., (2019). Interpretation of Geological Structures Hosting Potential Gold Deposits in the Konongo Gold Mine Using Airborne Magnetic, Electromagnetic and Radiometric Datasets. *Journal of Geoscience and Environment. Protection*, 7(6): 203-225.
 15. Takyi-Kyeremeh, K., Wemegah, D.D., Preko, K. and Menyeh, A., (2019). Integrated Geophysical Study of the Subika Gold Deposit in the Sefwi Belt, Ghana. *Cogent Geoscience*, 5(1). <https://doi.org/10.1080/23312041.2019.1585406>.
 16. Martin H., Amoako-Yirenkyi P., Pohjonen A., Frempong N. K., Kömi J., Somani C. M. (2020). Statistical Modelling for Prediction of CCT Diagrams of Steels Involving Interaction of Alloying Elements. *Metallurgical and Materials Transactions B*, 52: 223–235. DIO: 10.1007/s11663-020-01991-w
 17. Atiah, W.A., Amekudzi, L.K., Aryee, J.N.A., Preko, K., Danuor, S.K., (2020). Validation of satellite and merged rainfall data over Ghana, West Africa. *Atmosphere*, 11(8): 859. <https://doi.org/10.3390/atmos11080859>
 18. Qamar Yasin, Syrine Baklouti, Pervez Khalid, Syed Haroon Ali, Cyril D. Boateng and Qizhen Du (2021). Evaluation of shale gas reservoirs in complex structural enclosures: A case study from Patala Formation in the Kohat-Potwar Plateau, Pakistan. *Journal of Petroleum Science and Engineering*, 198. <https://doi.org/10.1016/j.petrol.2020.108225>.

19. Muhammad Younis Khan, Guo-Qiang Xue, Wei-Ying Chen and Cyril D. Boateng (2020). Investigation of Groundwater In-rush Zone using Petrophysical Logs and Short-offset Transient Electromagnetic (SOTEM) Data. *Journal of Environmental and Engineering Geophysics*, 25: 433-437. DOI: <https://doi.org/10.32389/JEEG18-111>.
20. Boateng Cyril D, Li-Yun Fu and Sylvester K. Danuor (2020). Characterization of complex fluvio-deltaic deposits in Northeast China using multimodal machine learning fusion. *Scientific Reports*, 10: 13357. <https://doi.org/10.1038/s41598-020-70382-7>.
21. RAO Ying, FU Li-Yun, WU Yu, and Cyril D. Boateng (2020). Heterogeneous characteristic analysis of shale based on multi-component and multi-scale random media method. *Journal of Geophysics (in Chinese)*, 63(7): 2800-2809. DOI: 10.6038/cjg2020NOO62.
22. Mendez N. Jose, Qiang Jin, Maria Gonzalez, Wei Hehua and Cyril D. Boateng (2020). Predicting and 3D modeling of karst zones using seismic facies analysis in Ordovician carbonates of the Tahe oilfield, China. *Interpretation*, 8(2): 1M-T486. DOI: 10.1190/int-2019-0090.1
23. Mendez N. Jose, Qiang Jin, Maria Gonzalez, Xudong Zhang, Carlos Lobo, Cyril D. Boateng and Miller Zambrano (2020). Fracture characterization and modelling of karsted carbonate reservoirs: A case study in the Tahe oilfield, Tarim Basin (western China). *Marine and Petroleum Geology*, 112. DOI: 10.1016/j.marpetgeo.2019.104104.
24. Habimana E., Akwasi Acheampong Aning, Vandycke Asare Sarpong, Sylvester K. Danuor, Callistus Nero, (2019). Mapping the subsurface structure of the suevite deposit in the north of the Bosumtwi impact crater using electrical resistivity and seismic refraction tomographies. *Annals of Geophysics*, 63(2): 218. doi:10.4401/ag-7752
25. Aning, A.A., Asare, V., Wemegah, D., Noye, R., Preko, K. and Danuor, S. (2019). Integrated Geophysical and Geological Mapping of the Lithological and Geological Structures at a Proposed Generator Site. *Journal of Geoscience and Environment Protection*, 7: 73-85. doi: 10.4236/gep.2019.712005.
26. Sefa-Ntiri B., B. Kwakye-Awuah, R. Edziah, B. Anderson, F. A. Armah, P. Mensah-Amoah, S. S. Sackey, F. Sam, A. G. Akyea, S. Yunus, E. Tatchie, B. K. Nkansah, F. Kumi (2020). Dissolved organic matter in hand-dug well water as groundwater quality indicator: assessment using laser-induced fluorescence spectroscopy and multivariate statistical techniques. *SN Applied Sciences*.
27. Sefa-Ntiri B., B. Kwakye-Awuah, R. Edziah, B. Anderson, F. A. Armah, P. Mensah-Amoah, S. S. Sackey, F. Sam, A. G. Akyea, S. Yunus, E. Tatchie, B. K. Nkansah, F. Kumi (2020). Dissolved organic matter in hand-dug well

water as groundwater quality indicator: assessment using laser-induced fluorescence spectroscopy and multivariate statistical techniques. *SN Appl. Sci.* 2: 834. <https://doi.org/10.1007/s42452-020-2446-4>

28. Kwakye-Awuah B., Baah Sefa-Ntiri, Elizabeth Von-Kiti, Isaac Nkrumah Craig Williams (2019). Adsorptive Removal of Iron and Manganese from Groundwater Samples in Ghana by Zeolite Y Synthesized from Bauxite and Kaolin. *Water*, 11(9): 1-19.
29. Armah E.N.A.A, Martin Egblewogbe, Hubert Azoda Koffi, Alfred Ato Yankson, Francis Kofi Ampong, Francis Boakye, Josef Kwaku Ametefee Amuzu, Robert Kwame Nkum (2020). Solubility of Mn in ZnO Crystallites Synthesized Using Solid State Techniques. *Adv. Nan. Res.*, 3(1): 28-39.
30. Paal M., Isaac Nkrumah, Francis K. Ampong, David U. Ngbiche, Robert K. Nkum, and Francis Boakye (2020). The effect of deposition time and sulfurization temperature on the optical and structural properties of iron sulfide thin films deposited from acidic chemical baths. *Science Journal of University of Zakho*, 8(3): 97-104.
31. Danu B.Y., Eric S. Agorku Francis K. Ampong, Johannes A.M. Awudza, Vincent Torve, Caleb Amponsah, Ruth N.M Quaye, Onoyivwe M. Ama, Peter O. Osifo, Suprakas S. Ray (2020). FeS Encapsulated Chitosan Graft Polyacrylamide Nanocomposite for the Uptake of Model Anionic Eosin Y from Water: Isotherm, Kinetics and Equilibrium Studies. *Research Square*. DOI: <https://doi.org/10.21203/rs.3.rs-30309/v1>
32. Ngbiche D.U., Isaac Nkrumah, Francis K. Ampong, Mark Paal, Robert K. Nkum, Francis K. Boakye (2019). Optical and Structural Properties of Chemical Bath Deposited Cadmium Sulphur Selenide ($CdS_{1-x}Se_x$ ($0 \leq x \leq 1$)) Thin Films. *Open Journal of Applied Sciences*, 9: 785-798.
33. Britwum A., M. K. Donkor, F. K. Ampong, F. Boakye, R. K. Nkum (2019). Transport Properties of $K(NO_3)_{1-x}(ClO_3)_x$ Thick Films. *International Journal of Science and Research*, 8(11): 748-751
34. Armah E.N.A., Francis Kofi Ampong, Martin Egblewogbe, Hubert Azoda Koffi, Francis Boakye, Josef Kwaku Ametefee Amuzu, Robert Kwame Nkum (2019). Solubility of Mn in ZnO Nanocrystallites using Wet Chemical Synthesis. *Advanced Nano Research*, 2(1): 53-61
35. Botchway E.A., Francis K. Ampong, Isaac Nkrumah, Francis K. Boakye, Robert K. Nkum (2019). Growth of a Pure and Single Phase Iron Sulfide (Pyrite) Thin Film by Electrochemical Deposition for Photovoltaic Applications. *Open Journal of Applied Sciences*, 9(9): 725-735.

36. Elloh V.W., Abhishek K. Mishra, D. Dodoo-Arhin, Eric K. K. Abavare, G. Gebreyesus, E. Nyankson, J. K. Efavi, B. Onwona-Agyeman, A. Yaya (2020). Structural and Electronic properties of PVK/C60 Nanoheterostructure interfaces – A DFT Approach. *Surfaces and Interfaces* 20: 100556. <https://doi.org/10.1016/j.surfin.2020.100556>
37. Elloh V.W., Abu Yaya, Abhishek Kumas Misra, Gebremedhn, Kwabena Kan-Dapaah, Eric Kwabena Kyeh Abavare, Boateng Onwona-Agyeman (2020). Computational Modelling of Structural, Electronic, Optical and Vibrational Properties of PVK/C60 Nanoheterostructure Interfaces. *Biointerface Research in Applied Chemistry*, 11(3): 10864-10884

CONFERENCE PAPER/PROCEEDINGS

1. Forson, E.D., Menyeh, A., Danuor, S.K. and Wemegah, D.D., (2019). Comparison of basement depth values using 3D Euler Deconvolution from aeromagnetic and Satellite gravity datasets. GSA 31st Biennial Conference, University of Cape Coast, Cape Coast, 30th July – 2nd August.
2. Forson, E.D., Menyeh, A., Danuor, S.K., and Wemegah, D.D., (2019). Basement Depth Estimation from magnetic and gravity datasets using spectral techniques. GSA 31st Biennial Conference, University of Cape Coast, Cape Coast, 30th July – 2nd August.
3. Forson, E.D., Menyeh, A., Danuor, S.K., and Wemegah, D.D., (2019). Application of airbourne geophysical datasets to delineate lithological units, structural lineaments and potential groundwater zones within the West Gonja District of Ghana. GSA 31st Biennial Conference, University of Cape Coast, Cape Coast, 30th July – 2nd August.

