

Isaac Ayensu

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<https://scholar.google.com/citations>

Personal Profile

I am a Professor of Pharmaceutical Chemistry and currently Head of the Department of Pharmaceutical Chemistry at the Kwame Nkrumah University of Science and Technology (KNUST), Kumasi. I have extensive experience in teaching, research management, institutional leadership, and international academic collaboration. I previously served three terms as Head of the Department of Pharmaceutical Chemistry (2014-2017) and Head of the Department of Herbal Medicine (2020-2022). I am a Fellow of the Ghana College of Pharmacists and the immediate past Chairman of the Academic, Social and Research Pharmacists Association (ASRPA). I served on the Governing Board of the Pharmaceutical Society of Ghana (2019-2023) and currently serve on the Governing Board of the Traditional Medicine Practice Council. My research interests include pharmacokinetics, bioavailability, stability evaluation of allopathic and plant medicines, pharmaceutical analysis, drug regulation, quality control, and novel drug formulation development. I have published extensively in peer-reviewed international journals and presented at numerous conferences, and I serve as a reviewer for several international journals. Since returning to Ghana after my PhD, I have contributed to bridging the academia-industry gap and strengthened the professional training for PharmD and allied health programmes. I have supervised seven (7) PhD graduates since 2019 who are now academics and professionals globally. I also serve as a Visiting Professor at Madonna University Nigeria and China Pharmaceutical University,(Nanjing, China).

PERSONAL INFORMATION

Date of Birth: 23rd July 1973, Cape Coast

Nationality: Ghanaian

Marital Status: Married with 4 Children

Next of Kin: Mrs. Olivia Ayensu

Hobbies: Composing songs, Singing, Playing of Guitar and Drums

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Scopus Author ID: 54405559700

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Google Scholar: Citations: 1,152 | h-index: 16 | i10-index: 20

ResearchGate: Score: 601.2

EDUCATION

Fellow, Ghana College of Pharmacist
(Fellow),

University of Greenwich

Doctor of Philosophy (PhD), 2013), Commonwealth Scholarship

Kwame Nkrumah University of Science and Technology (KNUST)

Commonwealth Executive Masters in Public Administration (CEMPA), 2015),

Kwame Nkrumah University of Science and Technology (KNUST)

MSc. Pharm. Analysis and Quality Control, 2003),

University of Science and Technology (UST)

B. Pharm (First Class Hons), 1999),

Mfantsipim School

GCE O' and A' Levels 1991 and 1993 respectively.),

Accra, Ghana

August, 2025

UK

2009-2013

Kumasi, Ghana

2013-2015

Kumasi, Ghana

2000-2002

Kumasi, Ghana

1994-1999

Cape Coast, Ghana

1988 - 1993

WORK EXPERIENCE

UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

Professor Department of Pharmaceutical Chemistry, KNUST, Ghana	2023 - Date
Associate Professor Department of Pharmaceutical Chemistry, KNUST, Ghana	2019 - 2023
Senior Lecturer Department of Pharmaceutical Chemistry, KNUST, Ghana	2013 - 2019
Lecturer Department of Pharmaceutical Chemistry, KNUST, Ghana	2003 - 2013
Teaching Assistant Department of Pharmaceutical Chemistry, Faculty of Pharmacy, KNUST	2002
Demonstrator Department of Pharmaceutical Chemistry, Faculty of Pharmacy, KNUST	2000

Visiting Academic Appointments

Visiting Professor <i>China Pharmaceutical University, Nanjing, China</i>	2021 to Date
• Invited Lecturer (2021-2025)	
• Research collaboration and exchange	
Visiting Professor <i>Madonna University, Nigeria</i>	June 2016 to Date
• Regular visiting lectureship and research collaboration	
Assistant Lecturer/Academic Support <i>University of Greenwich School of Science, UK</i>	2010 - 2012
• Provided academic support and assistance in teaching during PhD studies	
Part-Time Lecturer <i>Dispensing Technology Department, Kumasi Polytechnic</i>	2003 - 2005
• Lectured in Dispensing Technology	

Research Areas/Expertise

Research Areas

1. Medicinal plants isolation and characterization.
2. Pharmaceutical analysis, characterization and quality control.
3. Pharmaceutical and heavy metal contaminants in the environment.
4. Novel drug formulation and development.
5. Medicinal Chemistry.
6. Novel Application of hydrotropic Solubilization technique in drug analysis.
7. Cosmetological studies.

CURRENT AND RECENT RESEARCH PROJECTS

On-going Projects	2025
1. Ghanaian Cannabis: Classification of major Phyto-cannabinoids and the link between elemental content and geographic location	
2. Towards Harnessing the full Therapeutic Potential of Xylopic Acid: Studies on selected topical gray areas	
3. Phthalates in Pharmaceuticals: A case of locally manufactured liquid Pharmaceuticals in the Ashanti Region of Ghana	
4. Evaluation of the Anticancer, Antioxidant and Phytochemical Constituents of <i>Adansonia Digitata</i> L. (Malvaceae)	
5. Exploratory Bioavailability studies on Herbal products	
6. Development and Validation of Stability indicating HPLC Method for selected Herbal Pharmaceuticals	

7. Filtration systems for water bodies contaminated by heavy metals from mining activities and pharmaceutical residues
8. Development and Validation of Stability indicating HPLC Method for the Simultaneous Estimation of Selected Analgesics
9. Anti-Infective Extracts and Phytoconstituents Isolated from Zea Mays and other Ghanaian Medicinal Plants
10. Synthesis of 'clicked' compounds and their phosphonium salts as targets against some tropical infections
11. Isolation, characterization and microbial assay of a biomarker (Bergenin) and development of RP-HPLC method for the quality control of the roots of *securinega virosa*
12. Detection and quantification of aphrodisiac adulterants in alcoholic beverages in Ghana
13. Qualitation and Quantification of Tryptophan in Hausa Koko (Spicy Millet Porridge): A Ghanaian Beverage
14. Novel Application of hydrotropic Solubilization technique in the formulation and analysis of poorly soluble drugs
15. Phytochemical Screening, Antimicrobial, Antioxidant and Anti-inflammatory activities of various extracts of the leaves and stem bark of *Allanblackia parviflora* (A Chevalier)
16. Comparative quantitative and activity analysis of antibiotics. Case study of NHIS and non-NHIS medicines
17. Determination of levels of lead in popularly patronised cosmetic products
18. Antimicrobial activities and phytochemical screening of the stem bark of *Trichilia tessemannii* (Harms) of the family Meliaceae
19. Development characterisation of laminated thiolated chitosan-based lyophilised xerogels for potential buccal delivery of macromolecules
20. Effect of protease enzyme inhibitors on mucoadhesion and release kinetics of macromolecules from laminated thiolated-chitosan freeze-dried xerogels

RECENT PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Khongorzul, P., Mainza, N., Tiiba, I. J. deen, Ibrahim, T. S., Goku, F., Ayensu, I., & Alolga, R. N. (2026). Role of gut microbiota in the anti-rheumatoid arthritis activity of xylopic acid. *Natural Product Research*, 1-11. <https://doi.org/10.1080/14786419.2026.2647368>
2. Alolga, R. N., Adobagna, L. A., Ayensu, I., Changqing, L., Goku, F., Ibrahim, T. S., & Mainza, N. (2025). A proteomics-metabolomics approach and mineral content analysis reveal inherent differences in the quality of Bambara groundnuts from two geographic regions. *Journal of the Science of Food and Agriculture*, 105 (2), 1001-1011.
3. Alolga, R. N., Ayensu, I., Boakye, P., Adobagna, L. A., Ofori, E. G., & Mainza, N. (2025). Low-temperature heat capacity and other thermodynamic characteristics of xylopic acid crystals. *Chemistry Africa*. Advance online publication.
4. Turkson, B. K., Nketia, R. I., Frimpong, C. K., Mensah, K. S., Sarfo, A. S., Safo, O. N., Bekoe, B. O., Ayensu, I., Mensah, M. L. K., & Zoiku, F. (2024). Antiplasmodial activity and toxicity of the leaves, stem

- and roots of *Parinari robusta* Oliv [CHRYSOBALANACEAE] in animal model. *South African Journal of Botany*, 168, 71-76.
5. Tordzagla, N., Ayensu, I., & Oppong-Kyekyeku, J. (2024). Phytochemical constituents from corn silk and antimicrobial activity of the isolates. *International Journal of Secondary Metabolite*, 11 (4), 604-622. <https://doi.org/10.21448/ijsm.1302694>
 6. Brobbey, A., Adu-Brimpong, B., Addotey, J. N., Asare-Nkansah, S., Ayensu, I., Appiah, E., & Derizie, A. (2023). Caffeine content in energy drinks can be determined using a validated liquid-liquid extraction method coupled to UV-visible spectrophotometry. *Nutrition & Food Science International Journal*, 12 (2), Article 555834. <https://doi.org/10.19080/NFSIJ.2023.12.555834>
 7. Alolga, R. N., Ayensu, I., & Sosu, J. S. (2023). Forced degradation studies, elucidation of degradation pathways and degradation kinetics of xylopic acid via LC and LC-MS/MS analyses. *Journal of Pharmaceutical Sciences*, 112 (8), 2029-2036.
 8. Alolga, R. A., Wang, S., Ayensu, I., & Nebeolisa, C. S. (2022). Pharmacokinetics and in vitro liver microsomal enzyme metabolism of xylopic acid. *Journal of Pharmaceutical and Biomedical Analysis*, 224, Article 115200.
 9. Douvris, C., Bentil, E., Ayensu, I., Osei Akoto, C., Amponsah, I. K., Adu, J., & Bussan, D. (2022). Trace metals in cannabis seized by law enforcement in Ghana and multivariate analysis to distinguish among different cannabis farms. *Toxics*, 10 (10), Article 567.
 10. Amengor, C. D. K., Brobbey, A., Ayensu, I., Orman, E., Peprah, P., Abudey, B. M., Ayibi, S. J., Attoh, C. N. D., Ade, A., Sodzi, P. K., & Aboagye, J. S. (2022). Acid-base indicator properties of synthesized phenylhydrazones. *Journal of Chemistry*, 2022, Article 3667814.
 11. Tordzagla, N., Ayensu, I., & Ofori, M. F. (2022). In vivo and in vitro antiplasmodial activity of extracts, fractions and an isolated compound from silk of *Zea mays* (corn silk). *Journal of Medical Pharmaceutical and Allied Sciences*, 11 (3), 4810-4816.
 12. Mensah, J. N., Brobbey, A. A., Addotey, J. N., Ayensu, I., Asare-Nkansah, S., Opuni, K. F. M., & Adutwum, L. A. (2021). Ultraviolet-visible spectroscopy and chemometric strategy enable the classification and detection of expired antimalarial herbal medicinal product in Ghana. *International Journal of Analytical Chemistry*, 2021, Article 5592217.
 13. Quartey, A. K., Ayensu, I., Orman, E., Mireku-Gyimah, N. A., Jibira, Y., & Goku, P. E. (2021). In-vivo anti-inflammatory activity of different parts of *Adansonia digitata*. *Journal of Medicinal Plants Research*, 15 (6), 252-259.
 14. Ade, A., Amengor, C. D. K., 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*, 2020, Article 2720697.
 15. Quartey, A. K., Jibira, Y., Forkuo-Donkor, A., Ayensu, I., Oduro-Kwarteng, A. A., Asuamah, 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.

16. 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*, *10*, Article e00589.
17. 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.
18. 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), Article e5287.
19. Adu, J. K., Dzakadzie, F., Orman, E., Ayensu, I., Amengor, C. D. K., & Kwofie, S. (2019). 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*, Article 106932.
20. Yir-Erong, B., Bayor, M. T., Ayensu, I., Gbedema, S. Y., & Boateng, J. S. (2019). Oral thin films as a remedy for noncompliance in pediatric and geriatric patients. *Therapeutic Delivery*, *10* (7), 443-464.
21. Yir-Erong, B., Bayor, M. T., Ayensu, I., Gbedema, S. Y., & Boateng, J. (2018). The challenges and knowledge gaps in malaria therapy: A stakeholder approach to improving oral quinine use in the treatment of childhood malaria in Ghana. *Journal of Pharmaceutics*, *2018*, Article 1784645.
22. Opoku, S., Ayensu, I., Brobbey, A. A., & Adjavon, K. A. (2018). Metronidazole analysis: Method development and validation via hydrotropic solubilization. *International Journal of Pharmacy and Pharmaceutical Research*, *12* (4), 1-13.
23. Tordzagla, N., Adosraku, R. K., Ayensu, I., Aseidu-Larbi, J., Ocloo, A., Ofori, M. F., & Antwi, S. (2018). In vivo antiplasmodial activity of extracts of selected Ghanaian medicinal plants. *Investigational Medicinal Chemistry and Pharmacology*, *1* (2), Article 12.
24. Ayensu, I., Adu, J. K., & Boateng, J. S. (2017). Stability evaluation of protein drugs in optimised thiolated-chitosan based buccal xerogels. *Journal of Science and Technology*, *37* (3), 46-53.
25. Mintah, D. N., Quartey, A. K., Oppong, A. B., Ayensu, I., & Apenteng, J. A. (2017). Synergistic in-vitro anthelmintic potentials of *Vernonia amygdalina* Delile stem and *Carica papaya* Lin. seeds. *World Journal of Pharmacy and Pharmaceutical Sciences*, *6* (10), 103-115.
26. Brobbey, A. A., Somuah-Asante, S., Asare-Nkansah, S., Osei, B. F., & Ayensu, I. (2017). Preliminary phytochemical screening and scientific validation of the anti-diabetic effect of the dried husk of *Zea mays* L. (corn, Poaceae). *International Journal of Phytopharmacy*, *7* (1), 1-5.
27. Adu, J. K., Amoah, E., Ayensu, I., Osei-Djarbeng, S., & Jagri, P. (2016). Phytochemical screening and antimicrobial activities of the stem bark of *Allanblackia parviflora* Chev (Clusiaceae). *The Journal of Phytopharmacology*, *5* (6), 215-224.
28. Ayensu, I., Doe, E., Brobbey, A. A., & Adosraku, R. (2016). Assessment of bioequivalence profile of locally produced flucloxacillin sodium capsules via urinary excretory rates. *Journal of Science and Innovative Research*, *5* (4), 125-129.

29. Ayensu, I., & Quartey, A. K. (2015). Phytochemical screening and in-vitro antioxidant properties of the stem bark of *Trichilia tessmannii* (Hams) (Meliaceae). *World Journal of Pharmacy and Pharmaceutical Sciences*, 4 (3), 76-90.
30. Brobbey, A. A., Quartey, A. K., Otuo-Serebour, S., & Ayensu, I. (2015). Determination of the phytochemical constituents, antimicrobial and antitussive activities of the leaves of *Solanum torvum* (Swartz). *World Journal of Pharmacy and Pharmaceutical Sciences*, 5 (1), 1363-1375.
31. Ayensu, I., & Quartey, A. K. (2015). Antimicrobial activities of the stem bark of *Trichilia tessmannii* (Hams) and *Trichilia monadelpha* (Thonn) J.J. de Wilde both of the family Meliaceae. *World Journal of Pharmacy and Pharmaceutical Sciences*, 4 (9), 1351-1362.
32. Ofori-Kwakye, K., Ayensu, I., Akyina, B., Kipo, S. L., & Boakye-Gyasi, M. E. (2014). Adulteration of Ghanaian topical herbal preparation with dexamethasone. *World Journal of Pharmacy and Pharmaceutical Science*, 3 (6), 134-141.
33. Boateng, J. S., Mitchell, J. C., Pawar, H., & Ayensu, I. (2014). Functional characterisation and permeation studies of lyophilised thiolated chitosan xerogels for buccal delivery of insulin. *Peptide and Protein Letters*, 21 (11), 1163-1175.
34. Pawar, H., Boateng, J. S., Ayensu, I., & Tetteh, J. (2014). Multifunctional medicated lyophilised wafer dressing for effective chronic wound healing. *Journal of Pharmaceutical Sciences*, 103 (6), 1720-1733.
35. Boateng, J., & Ayensu, I. (2014). Preparation and characterisation of laminated thiolated chitosan-based freeze-dried wafers for potential buccal delivery of macromolecules. *Drug Development and Industrial Pharmacy*, 40 (5), 611-618.
36. Giovino, C., Ayensu, I., Tetteh, J., & Boateng, J. (2013). An integrated buccal delivery system combining chitosan films impregnated with peptide loaded PEG-b-PLA nanoparticles. *Colloids and Surfaces B: Biointerfaces*, 112, 9-15.
37. Kianfar, F., Ayensu, I., & Boateng, J. (2013). Development and physico-mechanical characterization of carrageenan and poloxamer based lyophilized polymeric matrix as a potential buccal drug delivery system. *Drug Development and Industrial Pharmacy*, 40 (3), 361-369.
38. Ayensu, I., & Boateng, J. S. (2012). Development and evaluation of lyophilized thiolated-chitosan wafers for buccal delivery of protein. *Journal of Science and Technology*, 32 (2), 46-55.
39. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). Effect of membrane dialysis on characteristics of lyophilised chitosan wafers for potential buccal delivery of proteins. *International Journal of Biological Macromolecules*, 50, 905-909.
40. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). In vitro characterisation of chitosan based xerogels for potential buccal delivery of proteins. *Carbohydrate Polymers*, 89, 935-941.
41. Giovino, C., Ayensu, I., Tetteh, J., & Boateng, J. S. (2012). Development and characterisation of chitosan films impregnated with insulin loaded PEG- β -PLA nanoparticles (NPs): A potential approach for buccal delivery of macromolecules. *International Journal of Pharmaceutics*, 428, 143-151.

42. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Development and physico-mechanical characterisation of lyophilised chitosan wafers as potential protein drug delivery systems via the buccal mucosa. *Colloids and Surfaces B: Biointerfaces*, 91, 258-265.
43. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Formulation and evaluation of lyophilised thiolated chitosan wafers for buccal mucosal delivery of proteins. *The AAPS Journal*, 13 (Suppl. 2), M1144.
44. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2010). Freeze-dried thiolated chitosan formulations for protein delivery via the buccal mucosa. *Journal of Pharmacy and Pharmacology*, 62 (10), 1273-1274.
45. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2010). Novel lyophilisation cycle development of chitosan-based formulations for buccal delivery using paracetamol as model drug. *The AAPS Journal*, 12 (Suppl. 2), W4170.
46. Ayensu, I., & Okine, N. N. A. (2008). Determination of relative bioavailability of paracetamol tablets using urinary excretory data. *The Ghana Pharmaceutical Journal*, 33 (2), 9-18.

Book Chapter

2014

- Boateng J, Ayensu I, Pawar H. (2014). Chitosan in: Khutoryanskiy (Editor). *Mucoadhesive Materials and Drug Delivery Systems* John Wiley and Sons Ltd, West Sussex, United Kingdom. ISBN 9781119941439. 235-254.

Published Thesis

1999 - 2015

- Ayensu I. (2015). Evaluating the Performance of the Collegiate System at KNUST.-MSc. Thesis submitted to KNUST.
- Ayensu I. (2012). Development of novel formulations for mucosal delivery of protein-based drugs. - PhD Thesis, submitted to the University of Greenwich, (UK). Commonwealth Scholarship Grant.
- Ayensu I. (2002). Determination of Bio-availability of a locally manufactured Paracetamol Tablets Using Urinary Excretory Data.
- MSc. Thesis submitted to KNUST.
- Ayensu I. (1999). Assay of Morphine hydrochloride ampoules. - B.Pharm Thesis submitted to UST.

Conference Proceedings

2010 - 2021

1. Turkson, B. K., Mensah, M. L. K., Ayensu, I., & Amponsah, I. K. (2021). Toward collaboration to improve the integration of traditional and orthodox medicine for holistic healthcare delivery in Ghana. *9th Biennial Scientific Conference of the College of Health Sciences, KNUST*. (Poster No. 44).
2. Ayensu, I., Bekoe, S. O., Adu, J. K., Brobbey, A. A., & Appiah, E. (2019). Evaluation of acid neutralizing and buffering capacity of selected antacids in Ghana. *Annual General Meeting of the Pharmaceutical Society of Ghana*. Accra, Ghana.

3. Ade, A., Brobbey, A. A., Ayensu, I., Amengor, C., & Adu, J. K. (2019). Synthesis and antimicrobial activities of 2,4-dinitrophenylhydrazone derivatives. *Pharmacy Graduate Students' Week*. (Poster No. PP004). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
4. Quartey, A. K., & Ayensu, I. (2019). Anti-inflammatory properties of various parts of *Adansonia digitata* (Malvaceae). *Pharmacy Graduate Students' Week*. (Poster No. PP005). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
5. Danson, D., Ehoneah, O., Ayensu, I., Brobbey, A. A., Adu, J. K., & Bekoe, S. O. (2019). Qualitation and quantification of tryptophan in Hausa Koko (spicy millet porridge): A Ghanaian beverage. *Pharmacy Graduate Students' Week*. (Poster No. PP019). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
6. Amenu, J. D., Ayensu, I., Bekoe, S. O., & Ahimsa, Y. (2019). Characterization and RP-HPLC method development of a biomarker (bergenin) from the roots of *Securinega virosa*. *Pharmacy Graduate Students' Week*. (Poster No. PP021). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
7. Safrega, B., & Ayensu, I. (2019). Development and validation of stability indicating HPLC method for simultaneous estimation of paracetamol, ibuprofen and caffeine in drug formulation. *Pharmacy Graduate Students' Week*. (Poster No. PP038). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
8. Ayensu, I., Agyeman, S., Appiah, E., & Jackson, E. (2017). Hydrotropic solubilization method for the analysis of furosemide in pure powders and formulated tablets. *BSU II Conference*. (Poster No. H7). Kumasi, Ghana.
9. Buabeng, K. O., Ayensu, I., Mensah, K. B., Owusu-Ofori, A., Bekoe, S. O., Boakye-Gyasi, E., Anto, B. P., Mantey, P., & Adu, O. A. (2017). Assessing water quality in the Asante Akim Districts in Ghana. *BSU II Conference*. (Poster No. H2). Kumasi, Ghana.
10. Ayensu, I., Amoah, E., Adjavon, K. A., Osei-Djarbeng, S., & Adjei, E. (2017). Anti-oxidant activities of the stem bark of *Allanblackia parviflora* Chev. (Clusiaceae). *BSU II Conference*. (Poster No. C21). Kumasi, Ghana.
11. Ayensu, I., & Quartey, A. K. (2015). Phytochemical, antimicrobial and antioxidant constituents of *Trichilia monadelpha* (Thonn) J.J. de Wilde and *Trichilia tessemannii* (Harms) both of the family Meliaceae. *Postgraduate Day, Faculty of Pharmacy and Pharmaceutical Sciences, KNUST*. (Poster No. 31). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
12. Quartey, A. K., & Ayensu, I. (2014). Antimicrobial activities of the stem bark of *Trichilia monadelpha* (Thonn) J.J. de Wilde of the family Meliaceae. *7th Annual Research Conference, Graduate Students Association of Ghana, KNUST*. (Poster No. 7). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
13. Quartey, A. K., & Ayensu, I. (2014). Antimicrobial activities of the stem bark of *Trichilia tessemannii* (Harms) of the family Meliaceae. *Workshop on Medicinal Plant Research*. (Poster No. 1). Noguchi Memorial Institute for Medical Research and SATRPS (JICA/JST), Accra, Ghana.

14. Pawar, H., Ayensu, I., Tetteh, J., & Boateng, J. (2013). Sodium alginate based antimicrobial wound dressings for chronic wound healing. *1st Hydrocolloids Symposium*. University of Huddersfield, Huddersfield, United Kingdom.
15. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). Development of laminated chitosan based lyophilized xerogels for potential buccal delivery of macromolecules. *UKPharmSci 2012*. (Abstract No. 42). Nottingham, United Kingdom.
16. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). In-vitro permeation studies of insulin using lamb buccal tissue and Epi-oral TM buccal tissue construct. *UKPharmSci 2012*. (Abstract No. 60). Nottingham, United Kingdom.
17. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). Evaluation of enzyme inhibitors on laminated thiolated chitosan xerogels for buccal delivery of insulin. *2012 AAPS Annual Meeting and Exposition*. (Abstract I.D. AM-12-01660). Chicago, IL, United States.
18. Ayensu, I. (2012). Development of novel formulations for mucosal delivery of protein-based drugs [Research presentation]. University of Greenwich, London, United Kingdom.
19. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Development and characterisation of lyophilised chitosan wafers: Effect of membrane dialysis. *UKPharmSci 2011*. (Abstract No. 59). Nottingham, United Kingdom.
20. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Formulation and evaluation of lyophilised thiolated wafers for buccal mucosa delivery of proteins. *The AAPS Journal*, 13 (Suppl. 2).
21. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Characterisation and evaluation of lyophilised chitosan (CS) wafers for protein delivery via the buccal mucosa. *UKPharmSci 2011*. (Abstract No. 43). Nottingham, United Kingdom.
22. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2010). Freeze dried thiolated chitosan formulations for protein delivery via the buccal mucosa. *UKPharmSci 2010*. (Abstract No. 42). Nottingham, United Kingdom.
23. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2010). Freeze dried thiolated chitosan formulations for protein delivery via the buccal mucosa. School of Science, University of Greenwich at Medway, Chatham Maritime, United Kingdom.
24. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2010). Novel lyophilization cycle development of chitosan-based formulation for buccal delivery using paracetamol as a model drug. *AAPS PharmSciTech*, 11 (Suppl. 2), W4170.

Podium Presentations

2004 - 2024

25. Adu, O. A., Brobbey, A. A., & Ayensu, I. (2024, June 5). Phthalates in pharmaceuticals: A case of locally manufactured liquid pharmaceuticals in the Ashanti Region of Ghana [Conference presentation]. *2nd Annual College of Health Sciences Postgraduate Conference*, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

26. Alolga, R. N., Oppong-Kyekyeku, J., Adosraku, R. K., & Ayensu, I. (2024, June 5). Towards harnessing the full therapeutic potential of xylopic acid: Studies on selected gray areas [Conference presentation]. *2nd Annual College of Health Sciences Postgraduate Conference*, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
27. Quartey, A. K., & Ayensu, I. (2021). Toxicity and in-vivo anti-inflammatory activity of different parts of *Adansonia digitata* [Conference presentation]. *9th Biennial Scientific Conference of the College of Health Sciences, KNUST*. (Oral Presentation 15). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
28. Agbetiameh, B. K., Essel, E., & Ayensu, I. (2020, November 19). Public health risks and content evaluation of hydroquinone containing creams [Conference presentation]. *COBREG 2020 Virtual Conference*.
29. Ayensu, I., Bekoe, S. O., Adu, J. K., Brobbey, A. A., & Appiah, E. (2019). Evaluation of acid neutralizing and buffering capacity of selected antacids in Ghana [Conference presentation]. *Annual General Meeting of the Pharmaceutical Society of Ghana*, Accra, Ghana.
30. Tordzagla, N., Adosraku, R. K., Ayensu, I., Asiedu-Larbi, J., Ocloo, A., Fokuo, O. M., & Antwi, S. (2019). In-vivo antiplasmodial activity of extracts of selected Ghanaian medicinal plants [Conference presentation]. *Pharmacy Graduate Students' Week*. (OP013). Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
31. Bekoe, S. O., Ayensu, I., Buabeng, K. O., Boakye-Gyasi, E., Mensah, K. B., & Adu, A. O. (2017). Detection of pharmaceutical contaminants in water sources in two peri-urban communities in Ghana [Conference presentation]. *BSU II Research Conference*, Kumasi, Ghana.
32. Ayensu, I., Agyeman, S., & Aryee, K. A. (2017). Development and validation of novel method of analysis of metronidazole via hydrotropic solubilization [Conference presentation]. *BSU II Research Conference*, Kumasi, Ghana.
33. Quartey, A. K., & Ayensu, I. (2014, August). Phytochemical, antimicrobial and antioxidant constituents of *Trichilia monadelpha* (Thonn) J.J. de Wilde and *Trichilia tessemannii* (Harms) both of the family Meliaceae [Conference presentation]. *Annual General Meeting of the Pharmaceutical Society of Ghana*, Ghana.
34. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2012). Development of laminated chitosan based lyophilized xerogels for potential buccal delivery of macromolecules [Conference presentation]. *UKPharmSci 2012*, Nottingham, United Kingdom.
35. Ayensu, I., Mitchell, J. C., & Boateng, J. S. (2011). Characterisation and evaluation of lyophilized chitosan wafers for protein delivery via the buccal mucosa [Conference presentation]. *UKPharmSci 2011*, Nottingham, United Kingdom.
36. Ayensu, I., Banning, K., & Debrah, P. (2008). Promoting "NEW-START" (Nutrition, Exercise, Water, Sunlight, Temperance, Air, Rest and Trust in God) approach towards regenerative health [Conference presentation]. *Annual General Meeting of the Pharmaceutical Society of Ghana*, Ghana.

37. Okine, N. N. A., Adosraku, R., Ayensu, I., & Baidoo, S. P. (2006). Bioavailability assessment of some locally manufactured chloroquine phosphate tablets [Conference presentation]. *Annual General Meeting of the Pharmaceutical Society of Ghana*, Ghana.
38. Okine, N. N. A., & Ayensu, I. (2004). Bio-availability studies on locally manufactured paracetamol tablets using urine samples [Conference presentation]. *Annual General Meeting of the Pharmaceutical Society of Ghana*, Ghana.

SUPERVISION OF STUDENT PROJECT WORK/THESIS/RESEARCH

Supervision Summary

I have supervised to completion **7 PhD students, 25 MPhil students and 92 undergraduate student projects** since I was appointed a lecturer. I am currently supervising **4 PhD students, 2 MPhil students and 7 undergraduate students**.

PhD SUPERVISION (Completed)

- | | |
|--|-------------------|
| 1. Bentil Edward PhD, Pharmaceutical Chemistry | March 2025 |
| • Ghanaian Cannabis: Classification of major Phyto-cannabinoids and the link between elemental content and geographic location | |
| • Status: Completed | |
| 2. Raphael Alolga PhD, Pharmaceutical Chemistry | Nov. 2024 |
| • Towards harnessing the full therapeutic potential of xylopic acid: Studies on selected gray areas | |
| • Status: Completed | |
| 3. Adu Owusuaa Abena PhD, Pharmaceutical Chemistry | Nov. 2024 |
| • Phthalates in Pharmaceuticals: A case of locally manufactured liquid Pharmaceuticals in the Ashanti Region of Ghana | |
| • Status: Completed | |
| 4. Okey Edith Nwakaego PhD, Civil Engineering (Co-Supervisor) | April 2023 |
| • Environmental pollution of water bodies by pharmaceutical residues | |
| • Status: Completed | |
| 5. Quartey A.K. PhD, Pharmaceutical Chemistry | Jan. 2023 |
| • Characterisation of some Bioactive Compounds from <i>Adansonia digitata</i> l. (malvaceae) | |
| • Status: Completed | |
| 6. Tordzagla N. PhD, Pharmaceutical Chemistry | Nov. 2019 |
| • Anti-Infective Extracts and Phytoconstituents Isolated from <i>Zea Mays</i> and other Ghanaian Medicinal Plants | |
| • Status: Completed | |
| 7. Amengor C.D.K. PhD, Pharmaceutical Chemistry | Feb. 2019 |
| • Synthesis of 'clicked' compounds and their phosphonium salts as targets against some tropical infections | |
| • Status: Completed | |

MPHIL SUPERVISION (Main Supervisor, Dept. Pharmaceutical Chemistry)

- | | |
|---|-------------|
| 1. Bediako Winfred Ashie MPhil, Pharmaceutical Chemistry | 2026 |
| • Unravelling the enzyme-like activity of custom-designed nanozymes for application in the development of diagnostic assays | |

- Status: Completed
- 2026**
- 2. **Evans Kwesi Amankwah | MPhil, Pharmaceutical Chemistry**
- Development and validation of analytical methods and sampling methodology for trace level of paracetamol, caffeine, and aspirin in support of cleaning validation
- Status: Completed
- 2024**
- 3. **Noble Awuah | MPhil, Pharmaceutical Chemistry**
- Determination of quality markers in a polyherbal formulation using a developed and validated RP-HPLC method
- Status: Completed
- 2024**
- 4. **Sala Ahmed | MPhil, Pharmaceutical Chemistry**
- Reverse phase HPLC method development for the simultaneous determination of Mangiferin, azadirachtin and gallic acid in a polyherbal formulation
- Status: Completed
- 2022**
- 5. **Tabitha Agorku | MPhil, Pharmaceutical Chemistry**
- High performance liquid chromatography (HPLC) method development, validation and exploratory bioavailability study of Antiaris
- Status: Completed
- 2021**
- 6. **Abdulai Abdul-Razak | MPhil, Pharmaceutical Chemistry (Co-Supervisor)**
- The efficiency of ceramic filtration system in removing selected contaminants from domestic water: A case study of Amansie central district
- Status: Completed
- 2021**
- 7. **Ivy Nyarko | MPhil, Pharmaceutical Chemistry**
- Development of RP-HPLC and dissolution methods for artemether and lumefantrine fixed dose combinations
- Status: Completed
- 2020**
- 8. **Razak Abdulai | MPhil, Pharmaceutical Chemistry**
- Filtration systems for water bodies contaminated by heavy metals from mining activities and Pharmaceutical residues
- Status: Completed
- 2019**
- 9. **Safrega Baba | MPhil, Pharmaceutical Chemistry**
- Development and Validation of Stability indicating HPLC Method for the Simultaneous Estimation of Selected Analgesics
- Status: Completed
- 2018**
- 10. **Amenu J.D. | MPhil, Pharmaceutical Chemistry**
- Isolation, characterization and microbial assay of a biomarker and development of HPLC method for the quality control of the roots of securinega virosa
- Status: Completed
- 2017**
- 11. **Appiah S.O. | MPhil, Pharmaceutical Chemistry**
- Novel UV-visible spectrophotometric determination of quinine sulphate powder and formulations using hydrotropic characterization
- Status: Completed
- 2016**
- 12. **Onilimor P.J. | MPhil, Pharmaceutical Chemistry**
- Phytochemical screening, antimicrobial, antioxidant and anti-inflammatory activities of methanolic, aqueous and pet ether extracts of the leaves of allanblackia parviflora (A. Chevalier)
- Status: Completed
- 2016**
- 13. **Amoah E. | MPhil, Pharmaceutical Chemistry**

- Phytochemical screening, antimicrobial, anti-oxidant and anti-inflammatory activities of methanolic, aqueous and pet ether extracts of the stem bark of allanblackia parviflora (A. Chevalier)
 - Status: Completed
 - 14. Agyeman O.S. | MPhil, Pharmaceutical Chemistry** **2015**
 - Novel application of hydrotropic characterization in the quantitative estimation of furosemide, cefuroxime axetil and metronidazole in pure powders and tablet formulations
 - Status: Completed
 - 15. Quartey A.K. | MPhil, Pharmaceutical Chemistry** **2014**
 - Phytochemical, antimicrobial, and antioxidant constituents of trichilia monadelpha (thronn) J.J. de Wilde and trichilia tessmannii (harms) both of the family meliaceae
 - Status: Completed
- MPHIL CO-SUPERVISION (Dept. Pharmaceutical Chemistry)**
- 16. Anthony Kwabena Appiah-Yeboah | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2025**
 - Bioactivity assessment, isolation and characterization of the methanolic extract of the stem bark of Aningeria Robusta
 - Status: Completed
 - 17. Sackitey Solomon | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2023**
 - RP-HPLC method development and validation to identify and quantify selected NSAIDS and PARACETAMOL in herbal preparations
 - Status: Completed
 - 18. Daniel Nimako Amprako | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2022**
 - Development and validation of HPLC method for the Analysis of SILDENAFIL, TADALAFIL, and VARDENAFIL and application in the analysis of some herbal Aphrodisiacs on the Ghanaian market
 - Status: Completed
 - 19. Kingsley Ofori-Atta | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2022**
 - Quantification of caffeine in some energy drinks on a selected Ghanaian market using HPLC
 - Status: Completed
 - 20. Selina Baffour-Antwi | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2022**
 - Qualitative and Quantitative evaluation of cryptolepis-based herbal anti-malarial formulations in Ghana
 - Status: Completed
 - 21. Alberta ADE | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2019**
 - Synthesis, characterization and antimicrobial studies of novel 2,4-Dinitrophenylhydrazone derivatives
 - Status: Completed
 - 22. Monica Mame Soma Nyansa | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2017**
 - Development of HPLC method for the simultaneous estimation of Paracetamol/Tramadol Hydrochloride in fixed-dose combination tablets
 - Status: Completed
 - 23. Prince Yeboah | MPhil, Pharmaceutical Chemistry (Co-Supervisor)** **2016**
 - The use of surrogate reference standards in quantitative HPLC: A case study of the analysis of Amlodipine and Lisinopril tablets
 - Status: Completed

MPHIL CO-SUPERVISION (Dept. Pharmaceutics)

- 24. Yir-Erong B. | MPhil, Pharmaceutics (Co-Supervisor)** **2018**

- Formulation and characterisation of novel quinine oral thin film for paediatric use
 - Status: Completed
- 25. Owusu F.W.A. | MPhil, Pharmaceuticals (Co-Supervisor) 2018**
- Formulation of nifedipine suppository to meet the needs of the severely ill and geriatric hypertensive patients
 - Status: Completed

UNDERGRADUATE PROJECT SUPERVISION

- 1. Agyepong Maame Serwaa Akosua | Undergraduate Project 2025**
- UV-spectrophotometric method development and validation for the analysis of timolol ophthalmic preparations
 - Status: Completed
- 2. Osei Priscilla | Undergraduate Project 2025**
- Optimization of aspirin synthetic parameters using the plackett-burman experimental design
 - Status: Completed
- 3. Amoah Samuel Kwaku | Undergraduate Project 2025**
- Detection of adulterant antibiotics in selected herbal products
 - Status: Completed
- 4. Nabil Mohammed Opoku | Undergraduate Project 2025**
- Quality assessment of anhydrous cyproheptadine hydrochloride
 - Status: Completed
- 5. Abudu Ibrahim | Undergraduate Project 2025**
- Quality assessment of selected anti-infective herbal products available in Koforidua, Ghana
 - Status: Completed
- 6. Svetlana Ami Mortoo | Undergraduate Project 2025**
- Forced degradation studies on two different batches of paracetamol and aspirin tablets using UV spectrophotometry
 - Status: Completed
- 7. Bofo Sampson | Undergraduate Project 2025**
- Evaluation of heavy metals concentrations in some selected anti-infective herbal medicines using atomic absorption spectroscopy
 - Status: Completed
- 8. Awotwe David | Undergraduate Project 2024**
- The effect of pH and determining the appropriate water for reconstitution of Lonart suspension
 - Status: Completed
- 9. Kwarteng Andrews Sarpong | Undergraduate Project 2024**
- Determination of heavy metals in polyherbal product
 - Status: Completed
- 10. Charles Boateng | Undergraduate Project 2024**
- Investigating the impact of pH and constituents of feminine hygiene products on female reproductive health
 - Status: Completed
- 11. Kobbla Norbert Dodze | Undergraduate Project 2024**
- Quality assessment of different brands of sustained release diclofenac tablets on the Ghanaian market
 - Status: Completed

- 12. Nana Addo Asiako | Undergraduate Project** **2024**
- pH determination and heavy metal analysis of selected batches of a polyherbal distillate
 - Status: Completed
- 13. Acquah Paapa Kojo | Undergraduate Project** **2024**
- Assessment of the acid neutralizing capacity of pepsa mixture
 - Status: Completed
- 14. Darko Roselyn Asiaa | Undergraduate Project** **2024**
- A comparative study of microbial contamination, pH and assay of pediatric antipyretic syrups in different batches of the same brand
 - Status: Completed
- 15. Sakina Sambo | Undergraduate Project** **2024**
- A comparative chemical analysis of glucose content of white rice, brown rice and basmati rice
 - Status: Completed
- 16. Angelique Nana Esi Osei-Alomele | Undergraduate Project** **2023**
- Analysis of alcoholic bitters on the Ghanaian market
 - Status: Completed
- 17. Oware Boateng Junior | Undergraduate Project** **2023**
- Adulteration of alcoholic beverages with aphrodisiacs
 - Status: Completed
- 18. Twum Amankwaah | Undergraduate Project** **2023**
- Heavy metal analysis of selected local alcoholic beverages in Ghana
 - Status: Completed
- 19. Kelvin Mainoo | Undergraduate Project** **2023**
- Quality control of local alcoholic bitters
 - Status: Completed
- 20. Quayson Emmanuel Amponsah | Undergraduate Project** **2022**
- Determination of Iron content in selected Ghanaian Herbal Blood Tonics
 - Status: Completed
- 21. Stephen Kofi Mills | Undergraduate Project** **2022**
- Accessing the metallic contents in local aphrodisiac herbal products manufactured in Ghana
 - Status: Completed
- 22. Kwabena Wireko | Undergraduate Project** **2022**
- Spectrophotometric Determination of Artemether Lumefantrine suspensions marketed in Kumasi Metropolis
 - Status: Completed
- 23. Ohenewaah Onwona-Nyarko | Undergraduate Project** **2022**
- Determination of Acetic Acid of Vinegar using Visual End Point Determination and Potentiometry
 - Status: Completed
- 24. Richard Akoto Obuobi | Undergraduate Project** **2022**
- Determination of Heavy Metals in some selected skin lightening creams on the Ghanaian market
 - Status: Completed
- 25. Bernard Tsibu Baiden | Undergraduate Project** **2022**
- Determination of Benzoic Acid levels in Soft Drinks using UV Spectroscopy
 - Status: Completed
- 26. Agnes Harris | Undergraduate Project** **2021**

- Evaluating the quality and some characteristic properties of locally produced honey sold in Kumasi using branded and unbranded honey samples
- Status: Completed
- 27. Eduah Bridget Otiwaa | Undergraduate Project** **2021**
- The use and quality assessment of cyproheptadine and cyproheptadine containing products in Ghana
- Status: Completed
- 28. Ayipeh Emmanuel | Undergraduate Project** **2021**
- Determination of metals in tap water using atomic absorption spectrometry
- Status: Completed
- 29. Gifty Donkor | Undergraduate Project** **2021**
- The Quality of Alcohol rub hand sanitizers on the Ghanaian Market
- Status: Completed
- 30. Agyemang Joel Kweku | Undergraduate Project** **2021**
- Evaluation and analysis of the quality of selected metronidazole infusions on the Kumasi market
- Status: Completed
- 31. Josephine Gyankama Bediako | Undergraduate Project** **2021**
- Comparative determination of dexamethasone content in pharmaceutical tablets and dompe dompe tablets
- Status: Completed
- 32. Oduro Kofi | Undergraduate Project** **2021**
- Heavy metals analysis in agriculture
- Status: Completed
- 33. Afua Ohemaa Amponsah-Kaakyre | Undergraduate Project** **2021**
- Using ultra-violet spectroscopic techniques to assess the quality of some brands of paracetamol infusions
- Status: Completed
- 34. Jerry Abieku Sackson | Undergraduate Project** **2021**
- Comparative analysis of raw honey and processed honey in the Kumasi, Ghana
- Status: Completed
- 35. Samuel Whyte Emmanuel Henaku | Undergraduate Project** **2020**
- Quality assessment of Herbal anti-malarials preparations on the Ghanaian Market
- Status: Completed
- 36. Erika Owusu | Undergraduate Project** **2020**
- Assessment of heavy metals introduced into food (Fufu) through milling process
- Status: Completed
- 37. Gerald Acheampong | Undergraduate Project** **2020**
- Anti-infective and modulatory properties of Casein
- Status: Completed
- 38. Samuel Ntow-Aninkora | Undergraduate Project** **2020**
- Anti-infective and modulatory properties of Casein
- Status: Completed
- 39. Odira Ubajaka | Undergraduate Project** **2020**
- TLC and UV-Visible determination of suspected Tadalafil in Alcoholic beverages
- Status: Completed
- 40. Annabelle Udeagbala | Undergraduate Project** **2020**
- TLC and UV-Visible determination of suspected Tadalafil in Alcoholic beverages
- Status: Completed
- 41. Erica Owusu Ansah | Undergraduate Project** **2019**

- Physicochemical Analysis of Ghanaian Alcoholic Bitters
- Status: Completed
- 42. Jeffrey-King Nsiah Darko | Undergraduate Project** **2019**
- Phyto-Chemical Analysis of Ghanaian Alcoholic Bitters
- Status: Completed
- 43. Derrick Buku | Undergraduate Project** **2019**
- Sub-Acute Toxicity Testing of Three Brands of Alcoholic Bitters Suspected to Contain Aphrodisiacs
- Status: Completed
- 44. Koduah Asare | Undergraduate Project** **2019**
- Analysis of Alcoholic Bitters on the Ghanaian Market
- Status: Completed
- 45. Kwarteng Yaw Obeng | Undergraduate Project** **2019**
- UV-Visible Spectrophotometric Quantification of Nifedipine Tablets using Mixed Hydrotropic Solubilization
- Status: Completed
- 46. Asare Peter Kenneth | Undergraduate Project** **2019**
- UV-Visible Spectrophotometric Quantification of Nifedipine Tablets using Mixed Hydrotropic Solubilization
- Status: Completed
- 47. Ehoneah O. | Undergraduate Project** **2018**
- Qualitation & quantification of tryptophan in Hausa Koko; a local Ghanaian beverage
- Status: Completed
- 48. Danson D.A. | Undergraduate Project** **2018**
- Qualitation & quantification of tryptophan in Hausa Koko; a local Ghanaian beverage
- Status: Completed
- 49. Offei S.K. | Undergraduate Project** **2018**
- UV spectrophotometric assay of nifedipine available in the Kumasi metropolis
- Status: Completed
- 50. Amponsah E. | Undergraduate Project** **2018**
- Test for antimicrobial activity and antioxidant activity of a selected herbal soap
- Status: Completed
- 51. Yirenkyi K. | Undergraduate Project** **2018**
- UV-Visible spectrophotometric quantification of diclofenac sodium powder and tablets using hydrotropic solubilisation
- Status: Completed
- 52. Emmanuel Oppong Nketia | Undergraduate Project** **2018**
- UV-Visible Spectrophotometric Quantification of Quinine Sulphate Powder and Tablets using Hydrotropic Solubilisation
- Status: Completed
- 53. Frimpong-Manso K. | Undergraduate Project** **2017**
- Aqueous solubilisation and UV spectrophotometric assay of albendazole by hydrotrophy
- Status: Completed
- 54. Boateng R.A. | Undergraduate Project** **2017**
- Aqueous solubilisation and UV spectrophotometric assay of albendazole by hydrotrophy
- Status: Completed
- 55. Essel E.T. | Undergraduate Project** **2017**

- Quantitative and qualitative determination of hydroquinone content in surveyed skin bleaching creams on the Ghanaian market
- Status: Completed
- 56. Agbetiameh B.K. | Undergraduate Project** **2017**
- Quantitative and qualitative determination of hydroquinone content in surveyed skin bleaching creams on the Ghanaian market
- Status: Completed
- 57. Kumi N.O. | Undergraduate Project** **2016**
- An audit of research activities of the Department of Pharmaceutical Chemistry (1971-2015), Faculty of Pharmacy
- Status: Completed
- 58. Appiah O.J. | Undergraduate Project** **2016**
- Analysis of furosemide tablets using hydrotropic solubilisation
- Status: Completed
- 59. Evbodi O.A. | Undergraduate Project** **2016**
- The hazards of food dyes
- Status: Completed
- 60. Torsoo P.M.R. | Undergraduate Project** **2016**
- Assay of brands of cefuroxime axetil tablet formulations using hydrotropic solubilisation
- Status: Completed
- 61. Nyanor A.K. | Undergraduate Project** **2016**
- Assay of various brands of metronidazole tablets using hydrotropic methods
- Status: Completed
- 62. Otchere R.O. | Undergraduate Project** **2016**
- Quality assessment and phytochemical screening of herbal anti-diabetic product
- Status: Completed
- 63. Edzia R.Y. | Undergraduate Project** **2015**
- Qualitative and Quantitative analysis of two brands of metronidazole tablets on the Ghanaian market
- Status: Completed
- 64. Ndigwe C.G. | Undergraduate Project** **2015**
- Quality assessment of some selected brands of amoxicillin and clavulanic acid combination antibiotic tablets on the Ghanaian market
- Status: Completed
- 65. Attafua A.A. | Undergraduate Project** **2015**
- Quality characteristics of Shea cosmetics produced by local manufacturers
- Status: Completed
- 66. Anyinam-Boateng A. | Undergraduate Project** **2015**
- Quantitative assessment of lead in selected brands of lipsticks
- Status: Completed
- 67. Ofodum C.A. | Undergraduate Project** **2015**
- Analysis of health insured amoxicillin capsules and non-health insured amoxicillin capsules in Kumasi Metropolis
- Status: Completed
- 68. Seidu I. | Undergraduate Project** **2014**
- The stability study of various brands of paracetamol syrups under various storage conditions using UV-visible spectrophotometry

- Status: Completed
- 69. Darkwa K.K. | Undergraduate Project** **2014**
- Assessment of stability status of some selected freshly prepared yoghurt - a case study on KNUST campus
- Status: Completed
- 70. Arthur R.L. | Undergraduate Project** **2014**
- Investigating the bioactive constituents of the leaves, the stem and the root of nephrolepis exaltata (Iomariopsidaceae)
- Status: Completed
- 71. Ofori-Antwi V. | Undergraduate Project** **2014**
- Assessing the quality of Metformin hydrochloride oral solid dosage preparations on the Ghanaian market
- Status: Completed
- 72. Sarpong Y. | Undergraduate Project** **2014**
- Determination of percentage content and dissolution profiles of Lumefantrine in local and imported generics of Artemether-Lumefantrine Combination Products on the Kumasi Metropolis
- Status: Completed
- 73. Selma R.A. | Undergraduate Project** **2014**
- A Qualitative and Quantitative Assay of Diclofenac sodium tablets in the Kumasi Metropolis
- Status: Completed
- 74. Appiah B.C. | Undergraduate Project** **2014**
- The pH, phosphoric acid content and health implications of commonly available brands of Coca Cola soft drink on the local Ghanaian market
- Status: Completed
- 75. Owusu P. | Undergraduate Project** **2009**
- The effect of magnetized water on streptozotocin-induced diabetic rats
- Status: Completed
- 76. Abilba F.A. | Undergraduate Project** **2009**
- Effects of combined product of alkaline and magnetized water on streptozotocin-induced diabetic rats
- Status: Completed
- 77. Asamoah A.A. | Undergraduate Project** **2009**
- The effect of alkaline water on streptozotocin-induced diabetic rats
- Status: Completed
- 78. Mills S. | Undergraduate Project** **2009**
- Effects of Magnetized water on the solubility of paracetamol tablets
- Status: Completed
- 79. Mozu R.E. | Undergraduate Project** **2009**
- The effect of Magnetized water on pharmaceutical analysis using Amodiaquine Hydrochloride as prototype
- Status: Completed
- 80. Abugri I. | Undergraduate Project** **2008**
- Establishing a stability protocol for Herbal products; a case study of three Herbal Antimalarial oral products
- Status: Completed
- 81. Teye F. | Undergraduate Project** **2008**
- Development of stability protocol for oral herbal products (a case study of three locally manufactured products against piles)
- Status: Completed

- 82. Afosah D. | Undergraduate Project** **2007**
 - Qualitative and Quantitative assessment of Herbal creams and ointments on the Ghanaian Market: A case study of their Corticosteroid content with respect to Dexamethasone
 - Status: Completed
- 83. Appiah G. | Undergraduate Project** **2007**
 - Semi-literacy in Herbal Medicine practice in Ghana
 - Status: Completed
- 84. Gyekye E.P. | Undergraduate Project** **2007**
 - The effect of sugar on some vitamins in Multivitamin syrups
 - Status: Completed
- 85. Nikoi J.A.K. | Undergraduate Project** **2006**
 - Vitamin deficiency- the silent killer. A case study with UV and Iodimetric analysis
 - Status: Completed
- 86. Blay T.D. | Undergraduate Project** **2006**
 - Vitamin deficiency- the silent killer. A case study using HPLC analysis
 - Status: Completed
- 87. Osei-Appau G. | Undergraduate Project** **2006**
 - Vitamin deficiency- the silent killer. A case study using HPLC analysis
 - Status: Completed
- 88. Nkansah A.A.K. | Undergraduate Project** **2005**
 - The effect of Temperature on the stability of Chloramphenicol capsules
 - Status: Completed
- 89. Arthur-Hayward N. | Undergraduate Project** **2005**
 - Market Survey and quality assessment of Anthelmintics (A case study of Mebendazole and Albendazole)
 - Status: Completed
- 90. Cobbina E. | Undergraduate Project** **2005**
 - Qualitative and quantitative assessment of herbal ointment on the Ghanaian Market. A case study of their Sulphur content
 - Status: Completed
- 91. Osei T.E. | Undergraduate Project** **2004**
 - Quality Evaluation and Market Survey on some brands of Artesunate
 - Status: Completed
- 92. Buabeng B. | Undergraduate Project** **2004**
 - Quality Evaluation of some brands of Artesunate tablets in the Kumasi Metropolis
 - Status: Completed

Selected conferences and seminars attended.

KNUST

- 11th Biennial Scientific Conference | College of Health Sciences, KNUST** **2025**
 - Participant
- Microsoft 365 Training | UITS Laboratory KNUST** **13th February 2025**
 - Participant
- Trainer of Trainees Workshop and Retreat | College of Health Sciences Senior Staff, Rock City** **2024**
 - Participant
- 10th Biennial Scientific Conference | College of Health Sciences, KNUST** **2023**

- Participant
Skilled Helper Programme | Novel Counselling Skills Course, KNUST Counselling Center **July 2022**
- Short course in Novel Counselling Skills
Workshop on Online Promotion System | CHS **June 2022**
- Participant
Training Workshop on Accreditation Processes and Procedures | QAPO **April 2022**
- Participant
Workshops on University Policies | QAPO/CHS **2022**
- Guidelines for Tracer Studies Policy - May 2022
- Peer-peer Evaluation on Teaching Policy - April 2022
- Maintenance Policy - April 2022
- Admissions Policy - March 2022
- Ethical Review Policy - March 2022
- Anti-sexual Harassment Policy - March 2022
- Disability Policy - March 2022
Continuous Professional Development | Stress and Anxiety in Academia **March 2022**
- Participant
Orientation Programme for Deans and Heads of Department | KNUST **January 2022**
- Participant
9th Biennial Scientific Conference | College of Health Sciences, KNUST **2021**
- Participant and Chairman of Parallel Session
KNUST Summer School Workshops | KNUST **2021-2025**
- Annual participant
KNUST Online Teaching Training Course | KNUST **September 2020-2022**
- Psychology of Online Teaching
- Introduction to KNUST Virtual Academic Space
- Uploading of Resources and Setting up Activities Online
- Conducting Live Class Teaching
- Developing Study Guide
- Quality Metrics for Online Learning
- Online Assessment
Invigilation Workshop for all Senior Members | KNUST **November 2019**
- Participant
Predatory Journal/Publishers, Plagiarism and Digital Commons | KNUST **November 2019**
- Participant
8th College of Science Scientific Conference | KNUST **2019**
- Participant
Author Workshop: How to Publish in Peer Review Journals | Elsevier, IDL Conference Centre, KNUST **February 2019**
- Participant
Electronic Learning and Virtual Classroom | CDC, CHS, KNUST **March 2018**
- Participant
BSU II Research Conference | Golden Bean Hotel, Kumasi **March 2017**
- Presenter and Participant
BSUII Workshop Write Shop | University of Ghana, Accra **February 2017**
- Participant

- **Administration and Leadership Workshop for Deans and Heads of Department | *KNUST*** September 2014-2015
- Annual participant
BSUII Work Package III | *Short Course on Water and Sanitation* April 2016
- Participant
CDC-CHS Staff Development Workshop | *KNUST* April 2016
- Participant
BSUII Workshop: Building Research Capacity to foster Academia-Industry Partnership | *KNUST* March 2015
- Participant
CDC-CHS Staff Development Seminar | *KNUST* February 2016
- Participant
1st National Conference on Problem-Based Learning and E-learning | *KNUST* September 2016
- Participant
KNUST Summer School Workshops | *KNUST* August 2013-2018
- Annual participant
Training Workshop on Quality Control of Drugs | *Action Medeor (Germany) and KNUST* 2013
- Participant
1st, 2nd and 6th Annual Scientific Conference | *College of Health Sciences, KNUST* August 2009, 2008, 2013
- Participant and Presenter
Training Workshop on Quality Control of Drugs | *Action Medeor (Germany), KNUST and Food and Drugs Board* July 2009
- Participant
Enhancing Education of Health Professionals through Strategic Leadership and Management January 2009
- Participant | *Seminar for Senior Members, CHS, KNUST*
Trainer of Trainers' Workshop on Competency Based Teaching and Learning August 2006
- Participant | *Quality Assurance and Planning Units, KNUST*
Taliff Workshop | *KNUST* 2005
- Participant
Induction and Training Workshop for Newly Appointed Lecturers | *Quality Assurance and Planning Unit, KNUST* August 2005
- Participant
Training of Trainers' Workshop on MCQ | *Quality Assurance and Planning Units, KNUST* March 2004
- Participant
Seminar on 'Improved Pedagogy and Research Proposal Writing' | *Quality Assurance and Planning Units, KNUST* February 2004
- Participant

National

- **Continuing Professional Development | *Pharmacy Council*** 2014-2025
- Annual participant
Pharmaceutical Society of Ghana Annual General Meetings/Conferences | *Various Venues* 2001-2009, 2013-2014
- Regular participant and presenter
COBREG 2020 Virtual Conference | *Online* 2020
- Presenter
Continuing Professional Development | *Pharmacy Council and USAID* July 2014
- Participant

- **Packaging Workshop for Stakeholders | *Institute of Packaging Ghana*** July 2014
- Resource Person
- **Continuing Education/Professional Development | *Pharmacy Council and Ghana Health Service*** 2013
- Participant
- **GMP for Quality Control and Production Managers | *Food and Drugs Board*** January 2008
- Participant
- **Pharmacy Council Continuing Education/Professional Development | *Pharmacy Council*** 2004-2009
- Regular participant

International

- **10th Calestous Juma Executive Dialogue | *Kumasi, Ghana*** September 2024
- Resource Person
- **International Webinar: Revisiting Antacids for Gastric Acidity | *Shalina Healthcare Ltd*** June 2021
- Resource Person
- **Third Topical Meeting | *United Nations Commission on Narcotic Drugs, Vienna (Virtual)*** October 2020
- Member of Ghanaian Delegation
- **Webinar: Malaria Elimination - Current Status, Challenges and Strategies | *Shalina Healthcare*** July 2020
- Participant
- **First Topical Meeting | *United Nations Commission on Narcotic Drugs, Vienna (Virtual)*** 24-25 June 2020
- Member of Ghanaian Delegation (Speaker)
- **Association of Commonwealth Universities Representative | *African Academy of Sciences Seminar*** October 2020
- Representative - Royal Society, UK
- **Academy of Pharmaceutical Scientists (APS) - The Science of Medicine Conference** September 2012, 2011, 2010
- Presenter and Participant | *Nottingham University, UK*
- **American Association of Pharmaceutical Sciences (AAPS) Annual Meeting and Exposition | *Washington DC, USA*** November 2011
- Presenter
- **Research Ethics Training: "Identifying Vulnerability and Taking Responsibility in Research"** June 2011
- Participant | *University of Greenwich, UK*
- **Developing the Inquiring Mind for Lifelong Skills | *The Higher Education Academy/University of Greenwich*** April 2010
- Participant | *Medway, UK*
- **Teaching Learning and Assessing in Higher Education | *University of Greenwich, UK*** April 2010
- Participant
- **Maximizing the Impact: Science and Technology for Society | *Commonwealth Scholarship Commission, UK*** March 2010
- Participant
- **Demonstrators Workshop | *The Engineering Subject Centre and UK Physical Science Centre, University of Greenwich*** March 2010
- Participant
- **Roles and Responsibility Training Event | *University of Greenwich, UK*** December 2009
- Participant
- **Equal Opportunities and Diversity Essentials Course | *University of Greenwich, UK*** October 2009
- Participant

Other Professionally Related Experience

- **Chair, PhD and MPhil Vivas** | *School of Graduate Studies, KNUST* 2025 to date
- Chaired 7 PhD and 20 MPhil vivas examinations
- **External Assessor (Senior Lecturer to Professorial Rank)** | *Center for Plant Medicine Research, Mampong* 2025
- Promotion assessment
- **External Assessor (Lecturer to Senior Lecturer)** | *School of Pharmacy, UDS, Tamale* 2024
- Promotion assessment
- **External Assessor (Senior Lecturer to Professorial Rank)** | *School of Pharmacy, University of Ibadan, Nigeria* 2024
- Promotion assessment
- **Invited Lecturer** | *China Pharmaceutical University, Nanjing, China* March 2021-2025
- Annual invited lectureship
- **External Moderator for Pharmaceutical Chemistry** | *School of Pharmacy, University of Development Studies, Tamale* 2023-2024
- Moderation of examinations and curriculum
- **External Assessor (Lecturer to Senior Lecturer)** | *School of Pharmacy, University of Ghana* 2022
- Dr. Michael Lartey - Promotion assessment
- **External Examiner for PhD Thesis** | *Institute of Environmental Studies, University of Ghana* 2021
- Emmanuel Kaboja Magna - PhD examination
- **External Assessor** | *Appointment and Promotions Board, Sunyani Technical University* April 2021
- Promotion assessment
- **External Examiner for MPhil Thesis** | *Department of Chemistry, University of Ghana* 2016 to date
- Perpetual Aboabea Anom (2021)
- Emmanuel Yeboah Bonsu (2020)
- Coffie Eric (2019)
- Tofah Kwasi Pascal (2019)
- **External Examiner for PhD Thesis** | *China Pharmaceutical University, China* May 2018
- PhD thesis examination
- **Internal Examiner for PhD Theses** | *Department of Pharmaceutical Chemistry, KNUST* 2016-2024
- Regular internal examiner for PhD examinations
- **Internal Examiner for PhD Theses** | *Department of Pharmacognosy, KNUST* 2016
- PhD thesis examination
- **External Assessor (Lecturer to Senior Lecturer)** | *School of Applied Science and Arts, Accra Polytechnic* 2016
- Promotion assessment
- **External Examiner for PhD Thesis** | *Department of Chemistry, University of Ghana* 2016
- PhD thesis examination
- **Visiting Senior Lecturer** | *Madonna University, Nigeria* June 2016 to Date
- Regular visiting lectureship
- **Internal Examiner for MSc and MPhil Theses** | *Department of Pharmaceutical Chemistry, KNUST* 2005, 2014
- Two (2) MSc. theses examined
- Thirteen (13) MPhil theses examined
- **Assistant Lecturer/Academic Support** | *University of Greenwich School of Science, UK* 2010-2012
- Provided academic support and assistance in teaching
- **Aim-High Associate** | *University of Greenwich, UK* 2011

- Motivated and helped young adults from lowest socio-economic categories and ethnic minority backgrounds
- First in family to progress to Higher Education
- Taught and supported mentees with challenging chemistry topics

Research Skills Online Completion Certificate | *University of Greenwich, UK*

December 2010

- Career Planning in the Sciences
- Ethics 1: Good Research Practice
- Ethics 2: Working with Human Subjects
- Getting Published in the Sciences
- IP in the Research Context
- Managing your Research Supervisor or Principal Investigator
- Project Management
- Research Methods (Sciences)
- Research Methods in Literature Review
- Selecting a Conference, Presenting and Networking

Part-Time Lecturer | *Dispensing Technology Department, Kumasi Polytechnic*

2003-2005

- Lectured in Dispensing Technology

Record of Service to the Community (University/National/International) with dates

University Service (KNUST)

Head of Pharmaceutical Chemistry | *Department of Pharmaceutical Chemistry*

Nov. 2022 to Date

- Leading the department and chairing all board meetings

Head of Herbal Medicine | *Department of Herbal Medicine*

August 2020 - October 2022

- Led the Department of Herbal Medicine and chaired board meetings

Head of Pharmaceutical Chemistry | *Department of Pharmaceutical Chemistry*

Aug 2014 to Jul 2015

- Leading the department and chairing all board meetings

Head of Pharmaceutical Chemistry | *Department of Pharmaceutical Chemistry*

Aug 2015 to Jul 2016

- Leading the department and chairing all board meetings

Head of Pharmaceutical Chemistry | *Department of Pharmaceutical Chemistry*

Aug 2016 to Jul 2017

- Leading the department and chairing all board meetings

Coordinator Problem-Based Learning | *College of Health Sciences*

December 2024 to Date

- Coordinating PBL initiatives across the College

Chairman | *Committee to review programme selection of applicants into the college of health science* 23/02/2026

- To Review programme selection of applicants into the College of Health Sciences

Chairman | *Herbal Medicine Curriculum Review Committee, Faculty of Pharmacy*

May 2022

- Chaired the committee to review the Herbal Medicine curriculum

Chairman | *Parallel Session - College of Health Sciences 9th Biennial Scientific Conference* September 2021

- Chaired a parallel session at the conference

Chairman | *Faculty Excellence Awards Committee*

July 2021

- Chaired the committee for Faculty Excellence Awards

Chairman | *Establishment of Liaison Office Committee*

July 2021

- Chaired committee for establishing a Liaison Office

Chairman | *Departmental Board, Pharmaceutical Chemistry*

August 2014 - July 2017

- Chaired departmental board meetings

Chairman | *Committee to Investigate Examination Fraud Allegation*

2013/2014 Academic Year

- Investigated examination fraud allegation against Mr. Lawrence Mensah
Vice Chair | College of Health Sciences Retreat Planning Committee **May 2024**
- Assisted in planning the College retreat
Vice-Chair | Faculty Production Unit Management Committee **2017 to Date**
- Serving as Vice-Chair of Production Unit
Subcommittee Chair | 11th Biennial Scientific Conference **2025**
- For the planning committee.
Leader | Koforidua Invigilation Team - Nursing and Midwifery Terminal Examination **July 2025**
- Led invigilation team for professional examinations
Faculty Reviewer | College Excellence Awards **2025**
- Reviewer for College Excellence Award nominations
Supervisor | 2026 Students Field Trip **2025**
- Supervisor for 2026 Students Field Trip
Member | KNUST Advancement and Alumni Relations Office Board **2025**
- Committee member for KNUST Advancement and Alumni Relations Office Board
Member | College Biennial Scientific Conference Planning Committee **2025**
- Committee member for conference organization
Resource Person | Open Forum on "Evaluation of Student's Report" - Faculty Retreat **November 2022**
- Presented on evaluation of student reports
Member | Cape Coast Invigilation Team - Nursing and Midwifery Terminal Examination **November 2024**
- Invigilation team member for professional examinations
Member | Sekondi Invigilation Team - Nursing and Midwifery Terminal Examination **September 2023**
- Invigilation team member for professional examinations
Leader | Sekondi Invigilation Team - Nursing and Midwifery Terminal Examination **November 2022**
- Led invigilation team for professional examinations
Member | College Board, College of Health Sciences **August 2020 to Date**
- Serving on the College governing board
Member | Faculty Board, Faculty of Pharmacy and Pharmaceutical Sciences **August 2020 to Date**
- Serving on the Faculty governing board
Member | College of Health Sciences Retreat Planning Committee **May 2022**
- Committee member for College retreat planning
Member | College of Health Sciences Committee for KNUST Olympic StaffGames **May 2022**
- Committee member for staffgames organization
Member | College of Health Sciences Excellence Award Ceremony Planning Committee **January 2022**
- Committee member for Excellence Award ceremony
Leader | Korle-Bu Invigilation Team - Nursing and Midwifery Terminal Examination **November 2021**
- Led invigilation team for professional examinations
Reviewer | Maiden CHS Research Grant Applications **October 2021**
- Reviewed research grant applications
Member | College Students and Staff Psychological Health Committee **July 2021**
- Committee member for psychological health initiatives
Member | Sub-committee for Staff and Leadership - FIDLET Strategy 7, College Strategic Plan **May 2021**
- Member of strategic plan implementation committee
College Representative | Association of Commonwealth Universities Champions **November 2020**
- Represented the College as ACU Champion
Leader | Asankragua RGN Invigilation Team - Nursing and Midwifery Terminal Examination **August 2020**

- Led invigilation team for professional examinations
Scrutineer | *Election of Convocation Representatives on University Council* 13th November 2019
- Served as scrutineer for university council elections
Leader | *Kokofu RGN Invigilation Team - Nursing and Midwifery Terminal Examination* June 2019
- Led invigilation team for professional examinations
Member | *Reaccreditation Committee, Faculty of Pharmacy* February 2019
- Committee member for faculty reaccreditation
Experiential Training Coordinator | *Faculty of Pharmacy and Pharmaceutical Sciences* March 2019 to Date
- Coordinating experiential training for students
Member | *Herbal Medicine Curriculum Review Committee* May 2018
- Committee member for curriculum review
Member | *PharmD Curriculum Review Committee* April 2018
- Committee member for PharmD curriculum review
Non-Professorial Representative | *Academic Board of KNUST (College of Health Sciences)* February 2017 - M
- Represented non-professorial staff on the Academic Board
Three-Time Head | *Department of Pharmaceutical Chemistry* 2014-2017
- Aug 2014 - July 2015
- Aug 2015 - July 2016
- Aug 2016 - July 2017
Member | *Faculty Board, Faculty of Pharmacy* August 2014 - July 2017
- Served on the Faculty Board
Member | *Reallocation of Provost and Accounts Office Spaces Committee* March 2017
- Committee member for office space reallocation
Member | *Committee for Evaluation of Faculty for African Quality Rating Mechanism* April 2017
- Evaluated faculty for quality rating
Member | *PharmD Top-up Implementation Committee* February 2017
- Committee member for PharmD top-up implementation
Member | *PharmD Implementation and Monitoring Committee* August 2014 to Date
- Committee member for PharmD program implementation
Industrial Coordinator | *PharmD Elective* October 2016 to Date
- Coordinating industrial placements for PharmD students
Member | *College Board, College of Health Sciences* August 2014 to Date
- Serving on the College governing board
Member | *Committee to Draft Syllabus for Graduate Entry to PharmD, FPPS* April 2016
- Committee member for graduate entry syllabus development
Member | *Review Committee on Proposed Creation of Department of Pharmaceutical Microbiology* 2016
- Reviewed proposal for new department
Secretary/Member | *Adhoc Committee for NCTE Support Letter on PharmD Accreditation* 2016
- Drafted letter of support for PharmD accreditation
Member | *Committee to Review Syllabus of Sports Science and Exercise* 2016
- Reviewed and contributed to syllabus revision
Graduate Programmes Coordinator (Acting) | *Faculty of Pharmacy* July - December 2013
- Coordinated graduate programmes on acting basis
Member | *Department of Pharmaceutical Chemistry Board* 2003 - 2014
- Served on departmental board
Member | *Faculty Examiner's Board, Faculty of Pharmacy* 2003 to Date

- Serving on Faculty Examiner's Board
Faculty Representative | Faculty of Biosciences Board 2007 - 2009
- Represented Faculty of Pharmacy on Biosciences Board
Head of Quality Control Unit | Department of Pharmaceutical Chemistry 2007 - 2009
- Led the Quality Control Unit
Deputy Director | MSc. Programme, Department of Pharmaceutical Chemistry 2007 - 2009
- Served as Deputy Director for MSc programme
Academic Tutor | B.Pharm, BSc. Herbal Medicine and PharmD Students 2003 - 2009
- Provided academic tutoring to undergraduate students
Mentor | FAMU and KNUST Collaboration 2008
- Served as mentor for collaborative programme
Member | Delegation for Inspection of Vacation Training 2003 - 2008
- Inspected vacation training of Pharmacy students
Head/Member | Organizing Team for Industrial Trips - MSc. Pharmaceutical Analysis 2005 - 2008
- Organized industrial trips for MSc students
Resource Person | "The State of the Faculty of Pharmacy" - Faculty Retreat 2007
- Presented a young lecturer's view on the Faculty
Secretary | PharmD Curriculum Development Committee 2004
- Served as secretary for curriculum development

National

- **Chairman | Accreditation of programs at UHAS- Ghana Tertiary Education Commission (GTEC)** 2024
- Assessed the university capability of starting a new program
Chairman | Academic, Social, Research Pharmacists Association (ASRPA) - Pharmaceutical Society of Ghana August 2021 - 2023
- Led the academic and research wing of PSGH
Chairman | Academic, Social, Research Pharmacists Association (ASRPA) - Pharmaceutical Society of Ghana August 2019 - 2021
- Led the academic and research wing of PSGH
Member | Traditional Medicine Practice Council June 2024 to Date
- Serving on the governing board of the Traditional Medicine Practice Council
Member | Technical Working Group to Review Monograph of Medicinal Plants Document (2009) September 2022 to Date
- Reviewing the national monograph of medicinal plants
Member | Traditional Medicine Practice Council June 2022 - 2024
- Served on the governing board
Member | Malaria Case Management Guideline Document Review Committee September 2022
- Reviewed national malaria case management guidelines
Member | Review Committee - National Antimalarial Drug Policy June 2022
- Reviewed and contributed to national antimalarial drug policy
Resource Person | Quality Control and GMP Training - Universal Plant Medicine and Traditional Healers Association March 2022
- Provided training on quality control and GMP
External Examiner | School of Pharmacy-Central University 2025
- Moderates and review the curriculum of the School.
External Assessor (Lecturer to Senior Lecturer) | School of Pharmacy, University of Ghana 2022

- Assessed Dr. Michael Lartey for promotion
External Assessor | *Appointment and Promotions Board, Sunyani Technical University* **April 2021**
- Promotion assessment
External Examiner for PhD Thesis | *Institute of Environmental Studies, University of Ghana* **2021**
- Examined PhD thesis of Emmanuel Kaboja Magna
External Examiner for MPhil Theses | *Department of Chemistry, University of Ghana* **2019-2022**
- Perpetual Aboabea Anom (2021)
- Emmanuel Yeboah Bonsu (2020)
- Coffie Eric (2019)
- Tofah Kwasi Pascal (2019)
Member | *Governing Board, Pharmaceutical Society of Ghana* **December 2021 - 2023**
- Served on the national governing board
Resource Person | *"Leading Academic Change Into An Uncertain Covid Era"* **August 2020**
- Delivered presentation on academic leadership during COVID-19 - Christian Service University College Staff Retreat
Member of Delegation (Speaker) | *Third Topical Meeting - United Nations Commission on Narcotic Drugs, Vienna* **October 2020**
- Represented Ghana at UN Commission on Narcotic Drugs(Virtual)
Member of Delegation (Speaker) | *First Topical Meeting - United Nations Commission on Narcotic Drugs, Vienna* **June 2020**
- Represented Ghana and spoke at UN Commission on Narcotic Drugs(Virtual)
Member | *Governing Board, Pharmaceutical Society of Ghana* **December 2019 - September 2021**
- Served on the national governing board
Member | *Strategic Committee, Pharmaceutical Society of Ghana* **December 2019 - September 2021**
- Served on strategic planning committee
Resource Person | *Leadership Retreat - Christian Service University College* **August 2020**
- Provided leadership training
Member | *National Technical Committee on Cosmetics* **July 2014 to Date**
- Serving on national technical committee for cosmetics regulation
Resource Person | *Packaging Workshop for Stakeholders - Institute of Packaging Ghana* **2014**
- Provided expertise on pharmaceutical packaging
Resource Person | *Public Education on Rational Drug Use - Hello FM, Kumasi* **2013**
- Educated the public on rational drug use through radio
Member | *Public Education Committee - Pharmaceutical Society of Ghana* **2005 - 2009**
- Contributed to public education initiatives
Resource Person | *"On the Diary" - Luv FM Kumasi - Public Education on Hepatitis B and C* **2008**
- Educated the public on hepatitis B and C through radio
Resource Person | *Health Talk - "Getting the best out of your medication" - Calvary Charismatic Centre, Kumasi* **2007 - 2008**
- Provided health education to the community
Script Writer and Signature Tune Composer | *"Let's talk about drugs"* **2005 - 2006**
- Wrote scripts and composed signature tune for national TV programme on drug education-Pharmaceutical Society of Ghana on Ghana Television

International

Invited Lecturer | *China Pharmaceutical University, Nanjing, China* **2023 - 2025**

- Annual invited lectureship
Resource Person | 10th Calestous Juma Executive Dialogue, Kumasi, Ghana September 2024
- Provided expertise at international executive dialogue
External Assessor (Senior Lecturer to Professorial Rank) | School of Pharmacy, University of Ibadan, Nigeria 2024
- Promotion assessment for international university
Resource Person | International Webinar - "Revisiting antacids for gastric acidity" - Shalina Healthcare Ltd. June 2021
- Presented at international webinar on antacids
Member of Ghanaian Delegation (Speaker) | First Topical Meeting - United Nations Commission on Narcotic Drugs June 2020
- Represented Ghana and spoke at UN Commission on Narcotic Drugs(Virtual,Vienna)
Member | International Standards Organisation (ISO) Technical Committee on Cosmetics 2015 to Date
- Appointed by Ghana Standards Authority to represent Ghana on ISO technical committee
Editorial Board Member | Herbal Medicine Journal 2016 to Date
- Serving on editorial board of international journal
Planning Committee Member | International Conference on National Sustainable Development Strategy - IDL, KNUST April 2017
- Committee member for international conference
Reviewer | International Journal of Pharmaceutics 2015
- Peer reviewer for international journal
Reviewer | Pharmaceutical Biology 2015
- Peer reviewer for international journal
Aim-High Associate | University of Greenwich, UK January 2011
- Motivated and helped young adults from disadvantaged backgrounds to access higher education
Founding Father | Medway Ghanaian Association (MGA), UK March 2011
- Co-founded community-based association for Ghanaian students and citizens in the UK
- Upheld Ghanaian culture and promoted physical health of ethnic minority group
International Liaison | Identification of Ghanaian Professors in the Diaspora June 2011
- Liaised for identification of Ghanaian professors abroad

PROFESSIONAL AFFILIATION

- **ISPOR | International Society for Pharmacoeconomics and Outcomes Research** 2019 to date
- Active member
University Teachers Association of Ghana | UTAG 2003 to date
- Active member
Pharmaceutical Society of Ghana | PSGH 2001 to date
- Active member
Royal Society of Chemistry (UK) | Associate Member 2010 - 2013
- Associate membership

FUNDING, FINANCIAL/RESOURCE MOBILIZATION AND GRANTS

Total Funding Mobilized: \$3,687,764.78

- **Award of Grant For PhD student** 2026
- **Amount: \$75,000**

- Equipment and laboratory instrumentation grant
Co-Investigator: ASPIRE Project | *Antimicrobial Stewardship and Infection Prevention in Africa* **2024**
Amount: €2.8M (\$3,313,386)
- Major international collaborative research project
Research Collaboration Grant | *China Pharmaceutical University, Nanjing, China* **2023-2025**
Amount: 280,000 rmb (\$40,300)
- Research collaboration and exchange funding
Curriculum Development Grant | *COA Research and Manufacturing Company Limited* **2022**
Amount: GHC 25,000 (\$2,283.21)
- Curriculum development for Postgraduate studies in Herbal Medicine
Symposium Sponsorship | *Kantanka, Ebenage, COA and Hollard Insurance* **2022**
Amount: GHC 19,000 (\$1,735.24)
- Symposium on "The State of the Integration of Herbal and Orthodox Medicine in Ghana, the Role of KNUST"
Facilitator - KN95 Face Mask Donation | *Thomas Scientific/Seeding Labs* **2021**
Amount: \$10,000 (value of donated masks)
- Facilitated donation of KN95 Face Masks to KNUST for COVID-19 protection
RSC Award - Research Exchange | *University of Greenwich/KNUST* **2020**
Amount: £10,000 (\$13,676)
- Royal Society of Chemistry Award for research exchange between University of Greenwich and KNUST
Multi-Grant Awardee - 5th KNUST Research Fund (KReF) | *KNUST* **2020**
Amount: GHC 30,000 (\$2,739.89)
- Competitive internal research grant
Commonwealth Post-Doctoral Fellowship | *University of Greenwich, UK* **2017-2018**
Amount: £15,000 (\$20,513.90)
- Commonwealth Fellowship for post-doctoral research
Instrumental Access Award | *Seeding Labs, USA* **2017-2018**
Amount: \$110,000
- Laboratory equipment and instrumentation grant
Coordinator - Alumni Donation | *1999 Year Group - Faculty of Pharmacy* **2018**
Amount: GHC 35,722 (\$3,252.43)
- Coordinated donation towards refurbishment of Drug Analysis and Quality Control Lab for Seeding Labs
Instrumental Access equipment
DFID PhD Research Funding | *University of Greenwich, UK* **2009-2013**
Amount: £62,000 (\$84,791)
- Three-year PhD research funding: "Novel formulations for mucosal delivery of protein-based drugs"
Department for International Development (DFID), UK
Co-Investigator - Safe Water for Good Health Project | *Building Stronger Universities* **2016**
Amount: \$9,923
- Research project on water quality and health

Funding Timeline (Chronological)

- **2026:** Instrumental Access Grant - Seeding Labs - \$75,000
- **2024:** ASPIRE Project (Co-Investigator) - \$3,313,386
- **2023-2025:** China Pharmaceutical University Collaboration - \$40,300

- **2022:** COA Curriculum Development Grant - \$2,283.21
- **2022:** Symposium Sponsorship - \$1,735.24
- **2021:** KN95 Face Mask Donation - \$10,000
- **2020:** RSC Award - University of Greenwich/KNUST Exchange - \$13,676
- **2020:** KNUST Research Fund (KReF) Multi-Grant Award - \$2,739.89
- **2017-2018:** Commonwealth Post-Doctoral Fellowship - \$20,513.90
- **2017-2018:** Seeding Labs Instrumental Access Award - \$110,000
- **2018:** 1999 Alumni Year Group Donation (Coordinator) - \$3,252.43
- **2016:** Building Stronger Universities - Safe Water Project - \$9,923
- **2009-2013:** DFID PhD Research Funding - \$84,791

REFEREES

Prof. T.C Fleischer

- Professor of Pharmacognosy
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- University of Health and Allied Sciences
- Ho, Ghana
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- College of Health Sciences, KNUST
- Kumasi, Ghana
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- **Tel:** +233(0)201964425

Prof. Joshua Boateng

- Professor in Pharmaceutical Sciences
- School of Science
- University of Greenwich
- Medway Chatham Maritime, Kent, UK
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COLLEGE OF HEALTH SCIENCES

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