**CURRICULUM VITAE**

**1.0. PERSONAL DETAILS**

**NAME:** **Akwasi Acheampong (PhD)**

**ADDRESS:** Department of Chemistry. KNUST

Kumasi, Ghana.

**DATE AND PLACE OF BIRTH:** 13th December, 1970. Kumasi.

**NATIONALITY:** Ghanaian

**MARITAL STATUS:** Married

**TELEPHONE**

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**Office:** +233 322 060305

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**Web-pages:** <http://staff.knust.edu.gh/cv.php?sid=6177930>

<https://webapps.knust.edu.gh/staff/dirsearch/profile/summary/05a3ce03f848.html>

<http://www.researchgate.net/profile/Akwasi_Acheampong3>

<https://scholar.google.com/citations?user=Q_b7qDEAAAAJ&hl=en>

<https://gh.linkedin.com/in/akwasi-acheampong-ph-d-14675bb>

<https://knust.academia.edu/ACHEAMPONGAKWASI>

**1.1 Academic degrees earned and Institutions attended with dates**

Université Paris - Sud, Orsay, France.

**Doctor of Philosophy (PhD). 2011**

Kwame Nkrumah University of Science & Technology, Kumasi. Ghana.

**Doctor of Philosophy (PhD). 2011**

Kwame Nkrumah University of Science & Technology, Kumasi. Ghana.

**Master of Science (MSc. Pharm Anal. & Qlty. Ctrl.) 2005**

University of Cape Coast, Cape Coast. Ghana.

**Bachelor of Science (Hons.) Chemistry. 1999**

Opoku Ware School, Kumasi. Ghana.

**General Certificate of Education, Advanced Level (GCE, A/Level). 1992**

Asanteman Secondary School, Kumasi. Ghana.

**General Certificate of Education, Ordinary Level (GCE, O/Level). 1990**

**1.2 Membership of Professional Bodies**

1. Member, Ghana Science Association (GSA)
2. Member, Ghana Chemical Society (GCS)
3. Member, University Teachers Association of Ghana (UTAG)
4. Member, National Executive Committee of UTAG
5. Member, Pan African Chemistry Network (PACN)
6. Member, Royal Society of Chemistry, U.K.

**1.3 Awards / Prizes**

* 2001 – 2003: Government of Ghana Bursary - MSc Pharmaceutical Analysis and Qlty. Ctrl., KNUST.
* Sept 2008 – May 2009: French Government Scholarship (Bourse de Gouvernment Francaise (BGF)) - PhD Analytical Chemistry, Univ. Paris-Sud, Orsay – France.
* Sept 2008 – May 2009: Paris-Sud Univ. Top Up for Needy International Student, International Programmes Office, Univ Paris-Sud, Orsay France.
* Sept 2010 – June 2011: French Government Scholarship (Bourse de Gouvernment Francaise (BGF)) - PhD Analytical Chemistry, Univ. Paris-Sud, Orsay, France.
* Sept 2010 – June 2011: Paris-Sud Univ. Top Up for Needy International Students, International Programmes Office, Univ Paris-Sud, Orsay France.
* June 2017: Certificate of Outstanding Contribution in Reviewing, Journal of Food Chemistry (Elsevier).
* May 2019 – Overall best author with the highest number of abstracts. 8th GSA Research Seminar and Poster Presentation themed ‘Using Science, Technology and Innovation to Improve Quality Health Care Delivery in Ghana’ , KNUST, Kumasi.

**2.0. TEACHING EXPERIENCE**

**Associate Professor** Aug. 2020 – Date

Department of Chemistry

Kwame Nkrumah University of Science & Technology

Kumasi, Ghana

Courses Taught: Organic and Analytical Chemistry

**Senior Lecturer** Aug. 2015 – July 2020

Department of Chemistry

Kwame Nkrumah University of Science & Technology

Kumasi, Ghana

Courses Taught: Organic and Analytical Chemistry

**Lecturer** June 2006 – July 2015

Department of Chemistry

Kwame Nkrumah University of Science & Technology

Kumasi, Ghana

Courses Taught: Organic, Analytical and Inorganic Chemistry

**Lecturer** (Part-Time) Aug 2006 – Sept. 2008

Department of Dispensing Technology

Kumasi Technical University

Kumasi, Ghana

Courses Taught: Chemistry theory and practicals

**Teacher** 1999 - 2006

Opoku Ware School

Kumasi, Ghana

Courses Taught: Chemistry theory and practicals

**Demonstrator** 2001 – 2003

Department of Pharmaceutical Chemistry

Kwame Nkrumah University of Science & Technology

Kumasi, Ghana

Courses Taught: Undergraduate Labs

**Teacher** 1992 – 1993

Oppon Memorial Sec. School

Kokofu, Ghana

Courses Taught: Biology (SSCE) and General Science (O’ Level)

**2.1. Summary of Courses Taught at the Kwame Nkrumah University of Science and Technology.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course**  **Code** | **Course Title** | **Class(es)**  **Taught** | **Semester /**  **Year** |
| CHEM 153  CHEM 154  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C4  PG 1  PG1 | 1,2  2019/20 |
| CHEM 153  CHEM 154  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C4  PG 1  PG1 | 1,2  2018/19 |
| CHEM 153  CHEM 154  CHEM 253  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Functional Chemistry II  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C4  PG 1  PG1 | 1,2  2017/18 |
| CHEM 153  CHEM 154  CHEM 254  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Organic Reaction Mechanisms  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C4  PG 1  PG1 | 1,2 2016/2017 |
| CHEM 153  CHEM 154  CHEM 254  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Organic Reaction Mechanisms  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C4  PG 1  PG1 | 1,2 2015/2016 |
| CHEM 153  CHEM 154  CHEM 253  CHEM 254  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Functional Group Chemistry II  Organic Reaction Mechanisms  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C2  C4  PG 1  PG1 | 1,2 2014/2015 |
| CHEM 153  CHEM 154  CHEM 253  CHEM 254  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Functional Group Chemistry II  Organic Reaction Mechanisms  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C2  C4  PG 1  PG1 | 1,2 2013/2014 |
| CHEM 153  CHEM 154  CHEM 253  CHEM 254  CHEM 453  CHEM 531  CHEM 534 | Basic Organic Chemistry  Functional Group Chemistry I  Functional Group Chemistry II  Organic Reaction Mechanisms  Physiologically Active Compounds  Physical Organic Chemistry  Natural Products | BC1  BC1  C2  C2  C4  PG 1  PG1 | 1,2 2012/2013 |
| CHEM 151  CHEM 152  CHEM 153  CHEM 154  CHEM 269  CHEM 270  CHEM 531 | Basic Inorganic Chemistry  Coordination Chemistry  Basic Organic Chemistry  Functional Group Chemistry I  Practical Chemistry III  Practical IV  Physical Organic Chemistry | C1  C1  BC1  BC1  C2  C2  PG 1 | 1,2 2011/2012 |
| CHEM 253  CHEM 254  CHEM 269  CHEM 270 | Functional Group Chemistry II  Organic Reaction Mechanism  Practical Chemistry III  Practical IV | C2  C2  C2  C2 | 1,2 2009/2010 |
| CHEM 253  CHEM 254  CHEM 269  CHEM 270 | Functional Group Chemistry II  Organic Reaction Mechanism  Practical Chemistry III  Practical IV | C2  C2  C2  C2 | 1,2 2007/2008 |
| CHEM 253  CHEM 254  CHEM 269  CHEM 270 | Functional Group Chemistry II  Organic Reaction Mechanism  Practical Chemistry III  Practical IV | C2  C2  C2  C2 | 1,2 2006/2007 |

**2.2. Supervision of Students’ project work / theses/ research**

1. Number of undergraduate students’ research project supervised - 110
2. Number of postgraduate students’ thesis supervised - 18

**2.2.1. Some of the Undergraduate Research work Supervised**

**2018/2019 Academic Year**

1. In vitro Analysis of some Metronidazole tablets on the Ghanaian market – Nobel Agyei Awuah
2. Quality Assessment of Griseofulvin tablets on the Ghanaian market – Ellen Bannerman
3. In vitro Analysis of Penicillin potassium tablets – Richard Sarfo Osei
4. In vitro Analysis Local and Foreign Citirizen HCl tablets sold on the Ghanaian market – Priscilla Brago Ampadu
5. Quality assessment of Diazepam tablets on the Ghanaian market – Angela Frimpong-Wiafe.
6. In vitro Analysis of Ciprofloxacin HCl tablets – Jemima Damtse
7. In vitro Analysis of Metformin tablets on the Ghanaian market – Patrick Agyenim Boateng
8. In vitro Analysis of some analgesic drugs made of a combination of Paracetamol and Diclofenac sodium on the Ghanaian market– Nathan Kwabena Coomson
9. Quality assessment of aspirin tablets (Local and foreign) on the Ghanaian market – Rosetta Nana Aba Friar.
10. In vitro Analysis of combined analgesics (Paracetamol, Ibuprofen and Caffeine) on the Ghanaian market – Priscilla Ansomaa Nyarko.
11. In vitro Analysis of local and foreign Aspirin tablets on the Ghanaian market – Jefferson Tuffour Addai-Poku.
12. In vitro Analysis of locally manufactured combined analgesics (Paracetamol, Aspirin and Caffeine) on the Ghanaian market – Joshua Dwamena Ehun.
13. In vitro Analysis of local and foreign Folic Acid tablets on the Ghanaian market – Margaret Aning.
14. Assessment of the quantity of caffeine in energy drinks available on the Ghanaian market – Bertson Owusu Ansah
15. Antimicrobial and Antioxidant activities of the leaf extracts of *Griffonia simplicifolia* - Kingsley Bortey, Prosper Dodzi Tagbor
16. Investigating the pharmacological activities of *Ocimum basilicum* seeds - Adoma H. Derrick, Abdul A. Naazo
17. Anthelminthic, Anti-inflamatory, and anti-oxidant activities of *Sclerocarya birrea* root - Gideon Kwarteng, Benjamin Kwadwo Kokloku

**2017/2018 Academic Year**

1. In vitro Analysis of some Metronidazole tablets on the Ghanaian market –Clifford Asare.
2. Quality Assessment of Amlodipine besylate tablets produced by local and foreign pharmaceutical companies sold on the Ghanaian market – Joseph Wakpal.
3. In vitro Analysis of Folic acid tablets on the Ghanaian market – Nana Aba Idun
4. In vitro Analysis Erythromycin tablets on the Ghanaian market – Amina Banda
5. Quality assessment of locally manufactured glibenclamide on the Ghanaian market – Benedicta Donkor.
6. In vitro Analysis of Metformin tablets on the Ghanaian market – Patrick Agyenim Boateng
7. In vitro Analysis of ciprofloxacin tablets on the Ghanaian market – Perpetual Asantewa
8. In vitro Analysis of co-trimoxazole (septrin) tablets– Kennedy Gedzah
9. Quality assessment of aspirin tablets (Local and foreign) on the Ghanaian market – Rosetta Nana Aba Friar.
10. In vitro Analysis of different brands of Diazepam tablets on the Ghanaian market – Badwah Martin Sam.
11. Assessment of the quantity of caffeine in energy drinks available on the Ghanaian market – Bertson Owusu Ansah

**2016/2017 Academic Year**

1. In vitro Analysis of some Metformin hydrochloride tablets on the Ghanaian market – Abdallah Sualley
2. Assessment of the quality of bore-hole water at Appiadu Community and some hostels at Kotei – William Kwaku Addai
3. Determination of the Physico-chemical properties and Antimicrobial load of tap water used by the people of Nungua in the Greater Accra region – Mary Amoanoo
4. In vitro Analysis of Glucosamine sulfate potassium chloride tablets – Churchil Dornu Dugbartey
5. In vitro Analysis of some anti HIV drugs, Lamivudine tablets, Nevirapine tablets and Efavirence capsules – Carllykate Owusu Brenya
6. In vitro Analysis of Atenolol tablets on the Ghanaian market – Abena Fosua Frimpomaa
7. In vitro Analysis of Erythromycin tablets – Samuel Ababio Buahen
8. In vitro Analysis of Amitriptyline hydrochloride tablets– Kwame Anim Afriyie
9. Formulation of a cream and alata samina with improved anti-microbial properties using noni juice – Rosetta Nana Aba Friar.

**2015/2016 Academic Year**

1. In vitro Analysis of Local and foreign Glibenclamide tablets sold on the Ghanaian market – Prince Amoako
2. Assessment of the quality of some combined analgesic drug products on the Ghanaian market – Emmanuel Gideon Ansah
3. Antimicrobial and Antioxidant activities of the methanol root extract of *Cnestic feruginea* and ethanol root extract of *citrus limon* – Samuel Okyem
4. Antimicrobial and Antioxidant activities of the methanol extract of the stem bark of *Baphia nitida*
5. In vitro Analysis of two brands of carbimazole tablets on the Ghanaian market – Tetteh Anum
6. In vitro Analysis of metronidazole tablets sold on the Ghanaian market – Atiemoh Nicholas Manukure
7. In vitro Analysis of some artesunate amodiaquine tablets on the Ghanaian market – Ellis Kpabitey
8. In vitro Analysis of Levonorgestrel tablets on the Ghanaian market – Nancy Nipah
9. In vitro Analysis of Nifedipine extended-release tablets on the Ghanaian market – Adwoa Werekoah Asamoah
10. Assessment of the quality of phenoxymethylpenicillin potassium (Penicillin V K) tablets – Samuel Addo Kissi.

**2014/2015 Academic Year**

1. In vitro Analysis of Aluminium hydroxide tablets – Stephen Awuku
2. Physico-chemical, microbial and heavy metal analysis of the rivers that feed the barekese dam – Gerald Cyril Opoku
3. Assessing the quality of well water at the Aboabo Number 1 Community – Linda Bortey.
4. Assessment of the quality of bore-hole water in Appiadu township – Boakye Kwame Abedi.
5. In vitro Analysis of some foreign and locally manufactured paracetamol tablets on the Ghanaian market – Joseph Derick Amoani
6. In vitro Analysis of some selected metronidazole tablets on the Ghanaian market – Emmanuel Boateng
7. In vitro Analysis of Diclofenac sodium tablets – Caleb Nana Kofi Nyame
8. In vitro Analysis of aspirin and determination of salicylic acid impurity in our locally manufactured analgesic tablet formulations by UV-Spectrophotometry – Emmanuel Arkoh Mensah

**2013/2014 Academic Year**

1. In vitro Analysis of Sulphadoxine –pyramethamine combinational drugs sold in the Kumasi Metropolis. Otoo Bernice
2. In vitro Analysis of Mebendazole Tablets on the Ghanaian Market. Opoku Charles Dickson
3. In vitro analysis of Acetaminophen, Aspirin and Caffeine in pharmaceutical drugs on the Ghanaian market. Audrey Asare
4. In vitro analysis of some combined Analgesic Tablets manufactured in Ghana. Suleiman Hud Kusi Appiah
5. In vitro analysis of a two component Analgesic. Deveer Naa Koshie Angela
6. In vitro Analysis of drug Cetirizine hydrochloride. Dokyi Gifty
7. Stability of Sulphadoxine Pyrimethamine Antimalarial Tablets. Doku Lynda Chalker Maame Ama
8. In vitro analysis of Albendazole Tablets on the Ghanaian market. Ameyaw Afrifa Godson
9. In vitro analysis of Artemether Lumefantrine in fixed dose combination tablets on the Ghanaian market. Anyomih Winnifred Delali
10. In vitro analysis of sulphadoxine pyrimethamine tablets. Odamptey Samuel
11. Assessment of water quality of wells in Asuofia north in the Ashanti region of Ghana. Koomson Abdul-Rahman

**2011/2012 Academic Year**

1. In vitro analysis of Paracetamol and Diclofenac sodium tablets. Omari Isaac Obeng.
2. In vitro analysis of Amodiaquine hydrochloride tablets. Mensah Dominic Agbesi.
3. Determination of antimicrobial and antioxidant components of neem leaf. Amuah Joe King.
4. In vitro analysis of Diclofenac sodium tablets. Tetteh Nathanael
5. Determination of Caffeine in some common analgesic drugs on the Ghanaian market. Lionel Nortey.
6. Phyto-chemical investigation on the bulbs of *allium sativum.*
7. Analysis of different brands of sachet water in Kumasi. Ade Esinam Alberta.
8. Assessment of water quality parameters in different brands of sachet water sold in the Kumasi Metropolis. Koomson Ebenezer Barnabas.
9. Development of HPLC method for the analysis of sulphadoxine-pyrymethamine tablets. Benjamin O. Peprah.

**2009/2010 Academic Year**

1. In vitro analysis of Vitamin C on the Ghanaian market. Stanley Sheshie.
2. In vitro analysis of locally manufactured paracetamol on the Ghanaian market. Amoah Jones.
3. In vitro analysis of locally manufactured acetylsalicylic acid (Aspirin) tablets. Assifuah Mathew.
4. Proximate Analysis of the two species of Aloe plant and preparation of Aloe Vera Cream. Rosemary Osei-Wusu.
5. In vitro Analysis of Metronidazole Tablets on the Ghanaian market. Raphael Opoku.

**2007/2008 Academic Year**

1. Phyto-chemical analysis of powdered moringa leaves sold on the Ghanaian market. Arthur Augustine and Ansah Samuel
2. Drug analysis of Chloramphenicol capsules. Francis Nana Osei.
3. In vitro analysis of Salbutamol tablets. Isaac Debrah
4. In vitro analysis of some locally manufactured paracetamol. Rebecca Apenteng Ahunubea.
5. In vitro analysis of Septrin Tablets. Lydia Atuah.
6. In vitro analysis of some locally manufactured paracetamol. Georgina Boadu.
7. In vitro analysis of Co-trimoxazole tablets. Chormey Dotse Selali
8. In vitro analysis of Vitamin C tablets. David Quartey.
9. In vitro Analysis of Penicillin V on the local market.
10. Phytochemical investigations into the seeds of Sesame.

**2006/2007 Academic Year**

1. In vitro analysis of locally manufactured paracetamol on the Ghanaian market. Emmanuel Arkorful (supervised together with Dr. Godfred Darko).

**2.2.2. Postgraduate Research Supervised**

1. Validation and assay of mercury and heavy metal contamination in Omega-3 oils used as food supplements. Adolf Oti-Boakye. 2009/2010 (Took over supervision after Godfred Darko had left on study leave).
2. Development of HPLC-MS methods and the use of GC-MS methods for the identification of fatty acids and triacylglycerols in oils from non-traditional oil bearing plants in Ghana. Adolf Oti-Boakye. 2012/2013 (ongoing PhD research project).
3. Antimicrobial and Antioxidant activities of the methanol, chloroform and petroleum ether extracts of *Alchornea cordifolia*. Edward Sowah Mensah. 2013/2014
4. Radionuclide Pollution Associated with Gold mining in the Ankobra Basin within the Prestea- Huni Valley District of Ghana. Ibrahim Annan. 2013/2014.
5. Evaluation of free-radical quenching properties and determination of IC50 of some edible fruits and vegetables sold on the Ghanaian market. Andrews Yirenkyi Kwame Agyemang. 2013/2013 (co-supervised with Dr. (Mrs) Mercy Badu).
6. HPLC Method development for a multicomponent drug formulation containing paracetamol, chlorpheniramine maleate, and caffeine using both internal and external standards. Wilfred Owusu Gyasi. 2013/2014.
7. Development and validation of a RP-HPLC for simultaneous estimation of artemeter and Lumefantrine in fixed dose combination tablets. Latifa Alhassan. 2013/2014.
8. Development and validation of a RP-HPLC for simultaneous estimation of acetylsalicylic acid, paracetamol, and caffeine in fixed dose combination tablets. Sylvester Addai Arhin. 2014/2015.
9. Antimicrobial and Antioxidant activities of the methanol, chloroform and petroleum ether extracts of *Microdesmis puberula*. Lydia Tima Amankwah. 2015 – 2017.
10. Antimicrobial, Antioxidant and Anti-inflammatory properties of the hydro-ethanol stem bark extracts *Croton penduliflorus Hutch (Euphoibiaceae)*. Kennedy Ameyaw Baah. 2015- 2017.
11. Development and validation of a RP-HPLC for simultaneous estimation of sulphadoxine and pyrimethamine in fixed dose combination tablets. Albert Gyebi. 2015 – 2017.
12. Antimicrobial and Antioxidant activities of the methanol, chloroform and petroleum ether extracts of the leaves of *Microdesmis puberula*. Isaac Osei Owusu. Ongoing MPhil research.
13. Characterization of triacylglycerols in the seed oils of some non-traditional oil bearing plants. Adolf Oti Boakye. Ongoing PhD research.
14. Evaluation of levels of hazardous metals in some medicinal plants, their medicinal products and the soils on which they were grown and estimation of the bioavailability of the metals. Kofi Sarpong. Ongoing PhD research.
15. Extraction, identification, isolation and characterization of phytoconstituents of three Ghanaian plants known to have antimalarial activities – Kennedy Ameyaw Baah – Ongoing PhD research.

**2.3. Administration**

1. Departmental Examinations/Registration Officer July 2014 – July 2017

1. Departmental Examinations/Registration Officer June 2012–Dec 2013
2. Officer in charge of UV/Vis Spect. and other equipment 2007 - 2009

Department of Chemistry

1. Deputy Departmental Board Secretary 2007- 2010

Department of Chemistry

1. Academic Tutor 2006 - 2008

2009/2010

2011 – Date

**3.0** **DETAILS OF RESEARCH**

My research centers on natural products, analytical chemistry, chemical ecology, lipids, pharmaceutical analysis and quality control, and analysis of water, food and food supplements. In the area of natural products, I investigate the phytoconstituents of various medicinal plants as well as fruits and seeds known to have high medicinal values. I do investigate the antioxidant, anti-inflamatory, antiplasmodial, anthelminthic and antimicrobial activities of various plant extracts of medicinal plants as well as isolates.

In Chemical Ecology, my interest has been on the semiochemicals released by plants in defence of herbivory feeding, their identification, characterization and quantitation that will lead to the synthesis of blends that can be used as biological insecticides. Air entrainment kits, GC-FID and GC-MS have been the major tools employed in this research.

In lipid research, my focus has been on identifying various fatty acids and triacylglycerols (TAG) present in vegetable oils. The major interest has been the design of various HPLC-MS methodologies that permits the complete characterization and quantification of TAG. This aspect of the research seeks to find vegetable sources of essential fatty acids like omega-3 and omega-6 oils found in fish.

In pharmaceutical analysis, I focus on analyzing drug products in pharmacy shops in Ghana to see if they meet the quality parameters enshrined in the standard books, especially the British Pharmacopoeia. Again, this area of the research seeks to develop various HPLC-UV methods for the analysis of various multi-component drugs being produced locally and abroad.

Water quality assurance and quality control analysis is another area of interest. I have thus conducted some research to assess the quality of underground water (boreholes and wells), water from some rivers, as well as sachet water from different manufacturers in Kumasi to ascertain if the water is wholesome for drinking.

Radionuclide pollution is another area I have delved into. Currently, I am researching into the radionuclide pollution of soils, river sediments, surface water of rivers and fishes in rivers to ascertain whether they are radiologically safe for consumption and use. This research is currently centered on rivers polluted by mining activities.

In analyzing food and food supplements for their safety, I have been assessing food and food supplements for their safety with respect to heavy metal and pesticides contamination.

**3.1. Research conducted**

1. Design of High Performance Liquid Chromatography - Mass Spectrometry (HPLC - MS) methods for the identification of triacylglycerols in vegetable oils. 2008 - 2021.
2. Design of HPLC-UV methods for the analysis of multi-component drugs. 2010 – 2021.
3. In vitro analysis of various pharmaceutical products (foreign and local), especially drugs on the local market of Ghana. 2007-2021.
4. Bio-availability of various drugs (foreign and local) available in pharmacy shops in Ghana. 2006-2021.
5. Validation of method and assay of heavy metal contamination in Omega-3 oils used as food supplements. 2009-2021.
6. Assessment of water quality parameters of various sachet water products on the markets of Kumasi. 2011 – 2017.
7. Assessment of quality parameters of water from borehole, wells and rivers in Ghana. 2012 – 2021.
8. Antimicrobial, Antiinflamatory, Anthelminthic and Antioxidant activities of the methanol, chloroform and petroleum ether extracts of various plants. 2011 -2021.
9. Radionuclide Pollution Associated with Gold mining in the Ankobra Basin within the Prestea- Huni Valley District of Ghana. 2012-2019.
10. Chemical Ecology research on Crops. 2014 - 2021

**3.2.** **Publications Arising From Recent Research Activities**

1. C. O. Akoto, **A. Acheampong**, P. D. Tagbor. K. Bortey. 2020. Determination of the Antimicrobial and Antioxidant activities of the leaf extracts of Griffonia simplicifolia. Journal of Pharmacognosy and Phytochemistry, 9(2): 537-545.
2. C. O. Akoto, **A. Acheampong**, Y. D. Boakye, B. K. Kokloku and G. Kwarteng. 2020. In vitro anthelminthic, anti-inflamatory, antioxidant activities and FTIR analysis of Sclerocarya birrea. Journal of Pharmacognosy and Phytochemistry, 9(2): 1389-1401.
3. C. O. Akoto, **A. Acheampong**, Y. D. Boakye, A. A. Naazo, D. H. Adomah. 2020. Anti-inflamatory, Antioxidant and Anthelminthic Activities of *Ocimum basilicum* (Sweet Basil) Fruits. Journal of Chemistry. ID: 2153534. <https://doi.org/10.1155/2020/2153534>
4. Clement Osei Akoto, **Akwasi Acheampong**, Yaw Duah Boakye, Desmond Akwata and Michael Okine. 2019. In vitro Anthelminthic, antimicrobial and antioxidant activities and FTIR analysis of extracts of Alchornea cordifolia leaves. Journal of Pharmacognosy and Phytochemistry, 8(4): 2462-2442.
5. Godfred Darko, Kwadwo Owusu Boakye, Marian Asantewaa Nkansah, Opoku Gyamfi, Eugene Ansah, Lily Lisa Yevugah, **Akwasi Acheampong**, Matt Dodd. 2019. [Human Health Risk and Bioaccessibility of Toxic Metals in Topsoils from Gbani Mining Community in Ghana](javascript:void(0)). Journal of Health and Pollution, 9 (22), 190602.
6. Clement Osei Akoto, **Akwasi Acheampong**, Yaw Duah Boakye, Samuel Takyi, and Rukaya Garba. 2019. Phytochemical screening and in vitro antioxidant and antimicrobial activities of the extracts of the stem-bark of Psydrax peruviana. Journal of Medicinal Plants Studies, 7(5): 28-34.
7. Joseph Apau, **Akwasi Acheampong**, E. Adua. 2018. Exposure to bisphenol A, bisphenol F, and bisphenol S can result in obesity in human body. Cogent Chemistry, 4 (1): 1506601.
8. **Akwasi Acheampong**, Samuel Okyem, Clement Osei Akoto, Kennedy Ameyaw Baah. 2018. [Antioxidant, antimicrobial and FTIR analysis of methanol root extract of *Cnestis ferruginea* and ethanol root extract of *Citrus limon*](javascript:void(0)). Journal of Pharmacognosy and Phytochemistry, 7(4): 2938-2946.
9. **Akwasi Acheampong**, Lydia T. Amankwaa, Isaac O. Afriyie, Kennedy A. Baah. 2018. Antioxidant and Antimicrobial Activities of the methanol and petroleum ether extracts of the stem of *Microdesmis puberula*. The Pharmaceutical and Chemical Journal, 5(1): 38-48.
10. Adolf Oti-Boakye, **Akwasi Acheampong,** Ohene Gyang Nathan, Amoah Charles Agyei, Akorfa Akosua Agbosu. 2018. Comparative assessment of some physico-chemical properties of seed oils of *Parkia biglobosa* and *Monodora myristica* with some commercial oils. African Journal of Food Science, 12(1): 1-5. DOI: 10.5897/AJFS2015.1336.
11. **Akwasi Acheampong**, Albert Gyebi, Godfred Darko, Joseph Apau, Wilfred Owusu Gyasi, Sylvester Addai Arhin. 2018. [Development and validation of RP-HPLC method for simultaneous estimation of sulfadoxine and pyrimethamine in tablet dosage form using diclofenac as internal standard](javascript:void(0)). Cogent Chemistry 4 (1), 1472198
12. Adolf Oti-Boakye, **Akwasi Acheampong,** Ohene Gyang Nathan, Akorfa Akosua Agbosu, Amoah Charles Agyei. 2017. Determination of mercury and cadmium levels in omega-3 food supplements available on the Ghanaian market. African Journal of Pure and Applied Chemistry, 12(6): 50-53. DOI: 10.5897/AJPAC2016.0675.
13. Jonathan Osei-Owusu, **Akwasi Acheampong**, J.V.K. Afun, Samuel Osafo Acquaah. 2017. Chemical Composition of the Headspace Volatiles of Chromolaena odorata (L.) R.M. King in Ghana. Journal of Essential Oil Bearing Plants, 20(5): 1418-1423. DOI: 10.1080/0972060X.2017.1396928
14. Kennedy Ameyaw Baah, **Akwasi Acheampong**, Isaac Kingsley Amponsah, Yakubu Jibira, Mary Osei Owusu, Lydia Amankwaa Tima. 2017. Evaluation of the anti-inflamatory, antimicrobial and antioxidant activities of the stem bark extract of *Croton penduliflorus* Hutch (Euphorbiaceae). Journal of Pharmacognosy and Phytochemistry, 6(6): 1705-1710.
15. Godfred Darko, Lawrence Sheringham Borquaye, **Akwasi Acheampong**, Kwasi Oppong. 2017. Veterinary antibiotics in dairy products from Kumasi, Ghana. Cogent Chemistry, 3: 1343636. DOI: 10.1080/23312009.2017.1343636
16. **Akwasi Acheampong**, Mercy Badu, Andrews Yirenkyi Agyemang. 2016. Comparative Total Phenolics and Antioxidant activities of *Xanthosoma colocasia, Solanum torvum and Allium ascalonicum L.* International journal of Chemical and Biomolecular Science (IJCBS), 2(4): 73-79.
17. **Akwasi Acheampong**, Wilfred Owusu Gyasi, Godfred Darko, Joseph Appau, Sylvester Addai-Arhin. 2016. Validated RP-HPLC method for simultaneous determination and quantification of Chlorpheniramine maleate, Paracetamol and Caffeine in tablet formulation. SpringerPlus, 5: 625.

DOI 10.1186/s40064-2241-2

1. J. Apau, **A. Acheampong**, O. Akoto, E. Duah Boateng. 2015. Physicochemical and Microbial Analysis of Water from selected Hand-dug wells in Ayeduase, Kumasi. International journal of Chemical and Biomolecular Science, 1(4): 292-296.
2. **A. Acheampong**, S. Addai-Arhin, J. Apau, W. O. Gyasi. 2015. Development and Validation of a RP-HPLC Method with PDA Detection for the Simultaneous Estimation of Acetylsalicylic Acid, Paracetamol and Caffeine in Fixed Dose Combination Tablets. International journal of Chemical and Biomolecular Science, 1(4): 211-217.
3. G. Darko, A. Faanu, O. Akoto, A. **Acheampong**, E. J. Goode, O. Gyamfi. 2015. Distribution of natural and artificial radioactivity in soils, water and tuber crops. Environmental Monitoring and Assessment, 187(6): 1–11.
4. **A. Acheampong**, L. S. Borquaye, S. O. Acquaah, J. Osei-Owusu, G. K. Tuani. 2015. Antimicrobial Activities of Some Leaves and Fruit Peels Hydrosols. Internation Journal of Chemical and Biomolecular Science, 1(3): 158–162.

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| 1. A. Adam, **A. Acheampong**. and I. Abdul-Mumeen. 2015. Effect of soil variation on quality of shea butter in selected areas of the northern region of Ghana. Journal of Agricultural Biotechnology and Sustainable Development, 7(5): 43-50. |

1. J. Apau, **A. Acheampong**, V. Bepule. 2014. Physicochemical and Microbial parameters of water from hand-dug wells from Nyamebekyere, a suburb of Obuasi, Ghana. International Journal of Science and Technology. 3(6):347-351.
2. J. Apau, **A. Acheampong**, J. A. Appiah, E. Ansong. 2014. Levels and health risk assessment of heavy metals in tubers from the Kumasi Metropolis, Ghana. International Journal of Science and Technology. 3(9): 534-539.
3. **A. Acheampong**, J. Apau, G. Darko, A. Oti-Boakye. 2014. Assessment of mercury levels in omega-3 food supplements available on the Ghanaian market. Asian Journal of Applied Sciences 2(5): 658-662. .
4. J. Apau, **A. Acheampong**, K. P. Morkings. 2014. Water quality assessment of the Densu river in Ghana in terms of its physico-chemical parameters. Journal of Ghana Chemical Society. (Accepted).
5. N. Leveque, **A. Acheampong**, S. Heron, A**.** Tchapla. 2012. Determination of triacylglycerol regioisomers using electrospray ionization- quadrupole ion trap mass spectrometer with a kinetic method. Analytica Chimica Acta. 722:80-86.
6. **A. Acheampong**, N. Leveque, S. Heron, A Tchapla. 2011. Simple complementary Liquid Chromatography and Mass Spectrometry approaches for the characterization of triacylglycerols in Pinus koraiensis oil, Journal of Chromatography A. 1218: 5087-5100.
7. N. N. A. Okine, S. Asare-Nkansah, S. O. Bekoe, **A.** **Acheampong**. 2007. Determination of Relative Bioavailability of locally manufactured co-trimoxazole tablets using urinary excretion data. Journal of Ghana Science Association.

9(1), 62-70.

1. N. N. A. Okine, S. Asare-Nkansah, A. **Acheampong.** 2006. Simultaneous determination of sulphamethoxazole and trimethoprim in co-trimoxazole tablets using RP-LC analysis. JST, 26(3), 66-76.
   1. **Books Published**

* **Akwasi Acheampong**. 2007. ‘Categorised and Solved Chemistry Past Questions (For WASSCE, ‘O’ Level and A’Level)’. Enlightened Series. Kumasi, Ghana.
* **Akwasi Acheampong**. 2007. ‘Time Management and Academic Excellence’. Enlightened Series. Kumasi, Ghana.
* **Akwasi Acheampong**. 2008. ‘Achieving Academic Excellence’. Enlightened Series. Kumasi, Ghana.

**3.4 Exhibitions**

1. Exhibitor for CHEDI products and Exhibitions Coordinator for Department of Chemistry, KNUST at Ghana Academy of Arts and Sciences Exhibitions, Trade Fair, Accra. 19th – 28th October, 2007.
2. Exhibitor for CHEDI products and exhibitions Coordinator for Department of Chemistry, KNUST for the KNUST Independence Day Exhibitions at the new KNUST Museum. 5th – 9th March, 2007.

**4.0 CONFERENCES / SEMINARS AND WORKSHOPS**

* Godfred Darko, Akwasi Acheampong, Ibrahim Annan. Public Exposure to naturally occurring radioactivity in gold miningcommunities in Ghana. 8th International Toxicology Symposium in Africa. Zagazig University, Giza, Egypt. (29th to 31st August, 2016)
* Kingsley Bortey, Prosper Dodzi Tagbor, Clement Osei Akoto, **Akwasi Acheampong**. Antimicrobial and Antioxidant activities of the leaf extracts of *Griffonia simplicifolia*. 8TH GSA Research seminar and poster presentation. Using Science, Technology and Innovation to Improve Quality Health Care Delivery in Ghana. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (1st May, 2019).
* Ehun Joshua Dwamena, Clement Osei Akoto, **Akwasi Acheampong**. In vitro analysis and derivatization of local combination analgesics: Paracetamol, aspirin and caffeine on the Ghanaian market. 8TH GSA Research seminar and poster presentation. Using Science, Technology and Innovation to Improve Quality Health Care Delivery in Ghana. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (1st May, 2019).
* Adoma H. Derrick, Abdul A. Naazo, **Akwasi Acheampong,** Clement Osei Akoto. Investigating the pharmacological activities of *Ocimum basilicum* seeds. 8TH GSA Research seminar and poster presentation. Using Science, Technology and Innovation to Improve Quality Health Care Delivery in Ghana.Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (1st May, 2019).
* Gideon Kwarteng, Benjamin Kwadwo Kokloku, Clement Osei Akoto, **Akwasi Acheampong.** Anti-helminthic, Anti-inflamatory, and anti-oxidant activities of *Sclerocarya birrea* root. 8TH GSA Research seminar and poster presentation. Using Science, Technology and Innovation to Improve Quality Health Care Delivery in Ghana. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (1st May, 2019).
* Facilitator – 8th KNUST Summer School. 20th – 24th August 2018.
* Facilitator – Mendeley Workshop organized by Writers Helpdesk Ghana for graduate students at KNUST. 26TH August, 2016.
* Participant – Atomic Absorption Spectroscopy Workshop, KNUST. 18th to 20th October, 2016.
* Participant - 1st NMR Structure Elucidation Training Workshop (NMR structure verification and elucidation workshop with focus on Natural Products) at KNUST – 31st August to 2nd September, 2015.
* Facilitator – Orientation for Postgraduate Distance Learning Students, Centre for Distance Education (I.E.D.E), University of Education Winneba. 26th September, 2015.
* Participant – Academic Mentorship for all lecturers and Assistant lecturers at College of Science Auditorium, KNUST. 20th March, 2014.
* Rapporteur. 1st Kumasi International Conference on Polymer Science and Technology (KIC-POST 1), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (16th – 18th April, 2012).
* **Akwasi Acheampong**, Nathalie Leveque, Reimel K. Adosraku, and Alain Tchapla. Characterization of triacylglycerols in *Taxus baccata* seed oil. 27th Biennial Ghana Science Association Conference, Kwame Nkrumah University of Science & Technology, Kumasi, Ghana (10th – 15th August, 2011).
* **Akwasi Acheampong**, Nathalie Leveque, Sylvie Heron and Alain Tchapla. Non-aqueous RPLC-ESI-MS method with post column addition of silver for characterization of triacylglycerols in *Pinus koraiensis* oil. International Journal of Arts and Sciences (IJAS) Conference, Rome, Italy. (22nd - 25th Nov. 2010).

* **Akwasi Acheampong**, Nathalie Leveque, Sylvie Heron, Alain Tchapla. Identification de la régiospécificité de triacylglycérols mixtes par de methode cinétique de Cooks. Conference de L’ecole Doctoral de Chimie, Université Paris Sud 11, Orsay, France. (27th - 28th Sept, 2010).
* Nathalie L. Leveque, Sylvie Heron, **Akwasi Acheampong**, Alain Tchapla. 27ème journéees francaise de spectrométrie de masse. Orsay, France (Sept 20-21, 2010).
* Nathalie Leveque, **Akwasi Acheampong**, Fathi Moussa, Alain Tchapla, Sylvie Heron. Regioisomer characterization of triacylglycerols by NARP chromatography/ electrospray ionization mass spectrometry using silver nitrate as a postcolumn reagent’, International Mass Spectrometry, Bremen, Germany. (30th Aug – 4th Sept. 2009).
* Nathalie L. Leveque, Sylvie Heron, **Akwasi Acheampong**, Alain Tchapla. Identification de la régiospécificité de triacylglycérols mixtes (AAB, ABC) par NARP-LC-MS5 grâce à la formation de leurs adduits argentés, SEP 09 Conference, Marseille, France. (30th Nov – 3rd Dec, 2009).
* **A. Acheampong**. In vitro analysis of Vitamin C tablets. 26th Biennial Ghana Science Association Conference at University of Cape Coast, Ghana. (4th – 8th August, 2009).
* **A. Acheampong** and G. Darko. In vitro analysis of Paracetamol tablets (Local and imported) being sold in pharmacy and chemical shops in the Kumasi metropolis. College of Science Retreat Conference at Chances Hotel, Ho-Ghana. (10th – 13th July, 2008).
* **A. Acheampong** and D. Quartey. In vitro analysis of Vitamin C tablets (Local and imported) being sold in pharmacy and chemical shops in the Kumasi metropolis. College of Science Retreat Conference at Chances Hotel, Ho-Ghana. (10th – 13th July, 2008).
* **A. Acheampong** and S. Oduro. In vitro analysis of Aspirin tablets (Local and imported) being sold in pharmacy and chemical shops in the Kumasi metropolis. College of Science Retreat Conference at Chances Hotel, Ho-Ghana. (10th – 13th July, 2008).
* N.N.A. Okine and **A. Acheampong**. ‘Determination of Relative Bioavailability of Locally Manufactured Co-trimoxazole tablets using urinary excretion data.’ 16th Annual National Conference of Ghana Chemical Society at Sasakawa Conference Centre, University of Cape Coast, Ghana. (21st – 24th March 2007).
* Participant - College of Science Retreat Conference at Busua Beach Resort, Ghana (21st – 24th July, 2006).
* Rapporteur and Master of Ceremony. Stake Holders Conference on MPhil Polymer Science and Technology Programme, Engineering Guest House, KNUST, Kumasi. 10th – 11th May, 2010.
* Participant. Induction Training / Seminar for new Lecturers and others, Quality Assurance and Planning Unit, KNUST. 14th – 16th August, 2006.
* Participant. 4th KNUST Summer School Workshop for Senior Members on the Advancing Science and Technology through Effective Communication. Quality Assurance and Planning Unit (Vice Chancellor’s office), KNUST. 18th – 22nd August, 2014.

**6.0 GRANTS / FUNDS**

* Leverhulme – Royal Society Africa Award – Rothamsted Chemical Ecology Research in the Department of Chemistry (Co - investigator) (2015 – 2020)

**7.0 SERVICE TO THE COMMUNITY**

1. **International**

Editorial board member – Universe Scientific Publishing

Reviewer – South Africa’s National Research Fund (NRF)

Reviewer – Journal of Pharmaceutical Sciences

Reviewer – Journal of Current Pharmaceutical Analysis (Bentham Science)

Reviewer – Journal of Molecular Biomarkers and Diagnosis

Reviewer – Beni-Suef University Journal of Basic and Applied Sciences

Reviewer – International Research Journal of Public and Environmental Health IRJPEH

Reviewer – Journal of Pharmaceutical Sciences (OMICS group)

Reviewer – Journal of Essential Oil Bearing Plants

Reviewer – Journal of Civil and Environmental Engineering (OMICS group)

Reviewer – Eurasian Journals of Analytical Chemistry

Reviewer – Pharmaceutica Analytica Acta

Reviewer – Journal of Radiological Protection

Reviewer - Analytical Methods (Royal Society of Chemistry)

Reviewer - Journal of Science and Technology (JUST)

Reviewer – Journal of Chromatography A (Elsevier)

Reviewer – Food Chemistry (Elsevier)

Reviewer – Asian Journal of Applied Sciences

Reviewer – Issues in Biological and Pharmaceutical Research (IBSPR) Journal

Reviewer – International Journal of Chemical and Biomolecular Science (IJCBS)

Reviewer - International Journal of Research in Environmental Studies (IJRES)

Reviewer – International Journal of Chemical Engineering and Analytical Science

Reviewer – American Journal of Microbiology and Immunology

Reviewer – 2nd International Conference on Applied Sciences and Technology

(ICAST 2015)

Reviewer - 3rd International Conference on Applied Sciences and Technology

(ICAST 2016)

Reviewer – 4th International Conference on Applied Sciences and Technology

(ICAST 2017)

Resource and Contact Person - Mane South Africa (PTY) Ltd

1. **National**

Chairman, Local Organizing Committee, committee for organizing STEM workshop for teachers in the Second Cycle School in Ghana. Workshop on behalf of Ghana Science Association in collaboration of Colleges of Science, Health Sciences and Engineering of Kwame Nkrumah University of Science and Technology. Feb 2020 – Nov 2020.

Senior Lecturer (Part time), Department of Science Education, College of Agriculture Education, Winneba. Feb 2019 to Date.

Senior Lecturer (part time), M.Ed programme by distance at the Centre for Distance Education (CDE), Institute for Educational Development and Extension (IEDE), University of Education Winneba, Winneba. April 2013 to Date.

Course Module Writer (Analytical Chemistry) for M.Ed Science (Chemistry) programme by distance mode, Centre for Distance Education (CDE), Institute for Educational Development and Extension (IEDE), University of Education Winneba, Winneba. April 2014.

External Assessor – University for Development Studies, Tamale - Ghana. November 2019 to date.

Member, Mendeley advisory team for teaching Mendeley referencing software in tertiary and research institutions, KNUST. March 2014 to Date.

Resource Person, Seminars organized by the Guidance and Counselling Unit of Kumasi Polytechnic on ‘Time Management and Concentration’. Kumasi Polytechnic, Kumasi. 15th – 30th November, 2007.

Resource Person, Seminars and workshops on ‘Achieving Academic Excellence, by choice or by chance? Juachie-Pramso Senior High School. 17th Jan., 2012.

Resource Person, Seminars and workshops on ‘Time Management and How to achieve Academic Excellence’. Afua Kobi Serwaa Ampem SHS. Ashanti Region.

Resource Person, Seminars and workshops on Time Management and How to achieve Academic Excellence. Opoku Ware School, Kumasi.

Resource Person, Seminars and workshops on Time Management and How to achieve Academic Excellence. Yaa Asantewaa SHS, Kumasi.

Resource Person, Seminars and workshops on Time Management and How to achieve Academic Excellence. Bonwire SHS, Bonwire – Ashanti.

Resource Person, First Years Orientation on theme ‘Time Management and How to achieve Academic Excellence’. Asanteman Secondary School, Kumasi. Nov. 2012.

Resource Person, Seminars and workshops on ‘Achieving Academic Excellence, by choice or by chance? Antoa SHS, Antoa – Ashanti. 9th Feb., 2012.

Resource Person, Seminars and workshops on ‘Time Management and How to achieve Academic Excellence’. Kumasi Girls SHS, Kumasi-Ashanti.

Resource Person, Seminars and workshops on ‘How to prepare effectively for Examinations and how to live with a heart of service unto God and a world in need’. IHCF – KNUST, Feb. 2008.

Guest Speaker, Science Festival with theme ‘Relishing Six decades of Scientific Experience’. Opoku Ware School Science Club. Kumasi- Ashanti. 11th Feb 2012.

Guest Speaker, Ashanti Regional SRC Week Celebration on thetheme‘Effective Stake Holder Collaboration, A Panacea for a Resilient Quality Educational System’. St. Louis SHS. Kumasi. 29th Jan., 2012.

Guest Speaker, Annual Science Festival dubbed ‘Unearthing Scientific Potentials through Ingenuity and Creativity’. Opoku Ware School Science Club. Kumasi. 9th Feb., 2013.

Guest Speaker and Chairman, Launching of Antoa Senior High School’s Science Association. Antoa-Ashanti. 21st Feb., 2013.

Chairman, Revival Explosion 2012. Opoku Ware School Protestant Community. 20th October, 2012.

Guest Speaker, Swearing in ceremony of new prefects of Juachie-Pramso SHS on the theme ‘The Importance of Servanthood’. March 2012 (Daily Graphic, 23rd March 2012, Page 15).

Resource Person, Streams of Life, Kessben FM, Kumasi. 2008 to Date.

Resource Person, Seminars and workshops on Time Management and How to achieve Academic Excellence. Komfo Anokye SHS, Wiamoase - Ashanti.

**(c) University**

* Chairman, KNUST Central Welfare Fund Management Committee. August 2018 to Date.
* Academic Mentor – Jan 2018 to Date
* Facilitator – 8th KNUST Summer School, 20-24th August, 2018.
* Member, Quality Assurance Committee for College of Science, KNUST. October 2016 to Date.
* Member, KNUST Central Welfare Fund Management Committee. August 2016 – July 2018.
* Member, Council of Convocation, KNUST. Jan 2018 to Date – Second term.
* Member, Council of Convocation, KNUST. Jan 2016 to Jan 2018 – First term.
* Member, University Welfare Services Board. July 2016 to Date.
* Member / Secretary, Committee for the Funeral rites of the Late Prof. S.K. Amponsah. July 24 to December 15, 2018.
* Member, Committee to Organize the 1st Night of Appreciation and Awards for Retired UTAG members. Jan 2017 to Feb 2017.
* Secretary, University Teachers Association of Ghana (UTAG). Sept 2015 to August 2017.
* Executive Officer, University Teachers Association of Ghana (UTAG). Dec. 2013 to Sept 2015 (2nd term)
* Examinations/Registration officer, Departmental of Chemistry, KNUST. Aug 2014 to July 2017.
* Executive Officer, University Teachers Association of Ghana (UTAG). Dec. 2011 to Dec. 2013 (1st term)
* Examinations/Registration officer, Departmental of Chemistry, KNUST. June 2012 to Dec 2013.
* Fellow, Republic Hall, KNUST. June 2013 to Date.
* Deputy Board Secretary, Departmental of Chemistry, KNUST. 2007 to 2010.
* Officer in charge of UV/Vis spectrophometer and other electronic equipment, Department of Chemistry. 2007- 2008.
* Academic Tutor. 2006-2008, 2009/2010, and 2011 to Date.
* Patron, Ghana Students Chemical Society, Department of Chemistry. 2011 to Date.
* Member, committee to establish the Modalities for the use of UTAG-KNUST bus. Nov 2012.
* Master of Ceremony (M.C.), College of Science Congregation. June 2012
* Member, College of Science Congregation Committee. June 2012.
* Member, committee to investigate alleged Examination Malpractices. College of Science. KNUST. Jan 2013.
* Member, Planning Committee for the 1st Kumasi International Conference on Polymer Science and Technology (KIC-POST 1), Kwame Nkrumah University of Science and Technology, Kumasi. March/April 2012.
* Resource Person, Fresher’s Orientation. Department of Chemistry., 2008. 2009, 2011, 2012 and 2013.
* Resource Person, Chemistry Christian Fellowship, Department of Chemistry, KNUST.
* Resource Person, College of Science Christian Fellowship, College of Science, KNUST. 17th November, 2012.
* Member, Mentorship Group, College of Science. KNUST.
* Chairman, Adhoc Committee For The Department Of Chemistry To Identify The Problem Hindering The Teaching/Learning Of Science And Mathematics In Senior High Schools. Department of Chemistry, KNUST.
* Chairman, Committee for the Review of Organic Chemistry Courses (Syllabi). Department of Chemistry, KNUST. November, 2011.
* Exhibitor and Exhibition Coordinator for Department of Chemistry, Ghana Academy of Arts and Sciences Exhibition, Trade Fair Centre, Accra – Ghana. 19th – 28th October, 2007.
* Exhibitor and Exhibition Coordinator for Department of Chemistry, KNUST Special Independence Day Exhibition at the New KNUST Museum. 5th – 9th March 2007.
* Rapporteur and M.C., Stake Holders Conference on MPhil Polymer Science and Technology Programme, Department of Chemistry, KNUST, Kumasi. 10th – 11th May, 2010.