



## JAMES KWAME KUSI

University of Education, Winneba, Department of Chemistry Education, P.O. Box 25, Winneba, Ghana.

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Ghanaian

### Areas of Expertise or Professional Skills

- Analytical Chemistry
- Environmental Chemistry
- Transition Elements and Coordination Chemistry

### Professional Qualification(s)

<i>Rank</i>	<i>Supporting evidence</i>	<i>Period</i>
PhD. Analytical Chemistry	PhD Chemistry	2021-2025
M.Phil Analytical Chemistry	M.Phil Certificate	2010-2013
B.Ed Science	B. Ed Science Certificate	2004-2008
Teacher Certificate	Cert “A”	1998-2001

### Professional Responsibilities

<i>Position</i>	<i>Office/Location</i>	<i>Period</i>
Lecturer	University of Education, Winneba	January 2024-date
Assistant Lecturer	University of Education, Winneba	June, 2021 to Dec 2023
Academic Counselor	University of Education, Winneba	February, 2023 to date
Tutor	Kumasi High School	Sept, 2019– June, 2021
Tutor	Adu Gyamfi Senior High	Sept, 2012-Sept, 2019
Demonstrator	KNUST, Kumasi	Oct, 2010-May, 2012
Tutor	Adventist Senior High, Bantama	Sept, 2008-Sept, 2010

Teacher	Fumso L/A Junior High School	Sept, 2001–Sept, 2004
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### Education and Academic Qualifications

PhD Analytical Chemistry	KNUST, Kumasi	2021 - 2025
M.Phil Analytical Chemistry	KNUST, Kumasi	2010– 2013
B.Ed Science	University of Cape Coast	2004-2008
SSSCE Certificate	Navrongo Senior High School	1994–1996

### Career History

<i>Position/Title</i>	<i>Name of Institution</i>	<i>Date</i>
Lecturer	University of Education, Winneba	January 2024-date
Assistant Lecturer	University of Education, Winneba	June, 2021– Dec 2023
Tutor	Kumasi High School	Sept,2019– June,2021
Tutor	Adu Gyamfi Senior High	Sept, 2012-Sept, 2019
Demonstrator	KNUST, Kumasi	Oct, 2010-May, 2012
Tutor	Adventist Senior High, Bantama	Sept, 2008-Sept, 2010
Teacher	Fumso L/A Junior High School	Sept, 2001–Sept, 2004

### Publications, Research/Projects Conducted or Undertaken, Creative Works/Productions

#### Produced:

**J.K Kusi** & Samuel O Acquah (2014). Levels of benzoic acid in soft drinks and fruit juices in Ghana, *IOSR Journal of Environmental Science, Toxicology and Food Technology*, 2319-2399, (8), 36-39

**J.K Kusi** et al., 2024. Geochemical characterization of waste rock dump and its potential to predict acid mine drainage, *Scientific African*, 26, 2468-2276, <https://doi.org/10.1016/j.sciaf.2024.e02350>

**Kusi, J.K.**, Foli, G., Peasah, M.Y. and Akoto, O. (2025) ‘Acid mine drainage and metal leaching potential of a waste rock dump’, *Int. J. Mining and Mineral Engineering*, Vol. 16, No. 3, pp.256–281.

## Professional Development:

### Training Sessions

<i>Course Title</i>	<i>Location</i>	<i>Period</i>
Professional Development and Best Research Practices Organised by the Faculty of Science Education	Elmina Beach Resort	26 <sup>th</sup> -29 <sup>th</sup> August, 2021
Grants and Proposal Writing Seminar (Developing a Convincing Research Proposal by the Directorate of Research Innovation and Development	UEW, North Campus	1 <sup>st</sup> Feb, 2022

### Seminars, Workshops and Conferences

Seminar on investigation into teaching of Physics in colleges of education in Western and Central regions of Ghana by faculty of science education on 25<sup>th</sup> January, 2023.

Seminar on integrated science teachers' knowledge, challenges, attitude and implementation of the activity method by faculty of science education on 8<sup>th</sup> March, 2023.

Seminar on restructuring health education materials to improve sexual and reproductive health literacy among school-age adolescents by faculty of science education on 5<sup>th</sup> April, 2023.

Grantsmanship workshop held under the auspices of the Institute for Educational Research and Innovation Studies (IERIS) from 22<sup>nd</sup> to 23<sup>rd</sup> September, 2022.

Seminar on factors influencing senior high school students' Performance in core Mathematics in the Greater Accra Region in Ghana	14 <sup>th</sup> September, 2022
Seminar on academic integrity of assessment results in the digital Space in UEW	14 <sup>th</sup> September, 2022

The Effect of Exemplary Materials on students' performance and knowledge retention in hybridization and spatial arrangements of atoms and molecules organised by the Faculty of Science Education on 2<sup>nd</sup> March, 2022.

Out of national women's football team: Experiences of former Ghanaian sports organised by the Faculty of Science Education on 2<sup>nd</sup> March, 2022.

Making UEW an institution of Excellence through Funded Research and Innovations: The way forward building a research funding and Grantsmanship Conference organised by Directorate of Research Innovation and Development at Jophus Anamuah-Mensah Conference Centre on the 19<sup>th</sup> July, 2021.

### International Conferences, Seminars and Symposium

KNUST, Posterfest Conference. FPCS PosterFest 2024 with the theme ‘Computational Methods in Scientific Research’. 16th October, 2024 at Allotey Auditorium, College of Science, KNUST (Poster presenter on the paper title Acid Mine Drainage and Metal Leaching Potential of a Waste Rock Dump)

KNUST, Scientific Research Conference. TEKCONFAB’23 on theme Innovation and Entrepreneurship in Science and Technology for a Sustainable Future. 29<sup>th</sup> -31<sup>st</sup> May, 2023 at School of Business, KNUST (Presenter on the sub-theme Environment, Climate Change and Food Security)

Inter-university Conference for Doctoral Studies, UEW. Theme: Promoting Staff Development Through Collaborative Research and Quality Teaching in Education from 17<sup>th</sup> to 19<sup>th</sup> January, 2023 at Prof. Jophus Anamoah-Mensah Conference Hall, UEW. (Participant)

International Multidisciplinary Conference for Postgraduate Students organised by postgraduate students of University of Education in collaboration with the School of Graduate studies at Josphus Anamuah-Mensah’s Conference center on the theme Change and Digital Transformational in the new normal: the role of the postgraduate student on 15<sup>th</sup>-16<sup>th</sup> September, 2022 (Participant)

London International Conference on Education in collaboration with World Congress on Special Needs Education-2021 organised by London International Conference on Education in collaboration with World Congress on Special Needs Education-2021. London, UK on the 22<sup>nd</sup>-24<sup>th</sup> November, 2021 (Participant)

Ireland International Conference on Education in collaboration with World Congress on Education- 2021 organised by Ireland International Conference on Education in collaboration with World Congress on Education, Dublin, Ireland on the 26<sup>th</sup>-28<sup>th</sup> October, 2021 (Participant)

### Curriculum development

<i>Course or instructional material</i>	<i>Period</i>
CHE 122: Equilibrium, Redox, Acids Bases	2024 to date
CHE 353: Environmental Chemistry	2021-date
CHE 362: Transitional Elements & Coordination	2021-date
CHE 242: Analytical Chemistry	2023 to 2024

### Student Development

Academic counselling	2021 to date
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### Membership of Professional Association(s):

<i>Name of Association</i>	<i>Position held (if applicable)</i>	<i>Period</i>
Ghana Chemical Society	Member	May, 2018 to date
University Teachers Association of Ghana	Member	July, 2021 to date

### Institutional Service

<i>Name of Committee(s) and/or Board(s)</i>	<i>Position or role</i>	<i>Period</i>
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Chemistry Department welfare	Member	2022 to date
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### Community Service

<i>Name of Institution/Organisation</i>	<i>Position(s) held (if applicable)</i>	<i>Period</i>
Chemistry Festival Planning comm. (Dept. of Chem. Edu.)	Member	March, 2022 to date
WAEC	Assistant examiner	June, 2012 to date
CODEL, UEW	Lecturer	2011 to date
Methodist Church, Ghana	Treasurer (Men's Fellowship)	2018 to 2023

### Grants, Honours, Awards, Prizes or Professional Recognition and other Key Accomplishments

<i>Name/Type of Award</i>	<i>Awarding Institution or Organisation</i>	<i>Period</i>
Chemistry Festival Grant	American Chemical Society	March, 2022
Chemistry Festival Grant	American Chemical Society	May, 2023
Chemistry Festival Grant	American Chemical Society	May, 2025

### Referees

#### Prof. Ruby Hanson

Department of Science Education.  
University of Education, Winneba  
Mobile: +233208126299, +233244728690  
Email: maameruby@yahoo.com

#### Prof. Emmanuel K. Oppong

Department of Chemistry Education  
University of Education, Winneba.  
Mobile: +233244803191  
Email: emmakyameoppong@yahoo.com

#### Prof. Osei Akoto

Dean, College of Science  
Department of chemistry

KNUST, Kumasi

Mobile: +233208216685

Email: wofakmann@yahoo.com

Signature:

Date: 2nd August, 2025