



Claudia Quayson (Mrs.)

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

- Chemistry of Hydrocarbons
- Functional Group Chemistry
- Science and Management in the Laboratory

Professional Qualification(s)

<i>Rank</i>	<i>Supporting Evidence</i>	<i>Period</i>
PhD. Science Education	On-going	2021- 2024
M.Phil Science Education	M.Phil Certificate	2016-2018
Postgraduate Diploma in Education	Postgraduate Certificate	2012- 2013
BSc Chemistry	BSc Certificate	2000-2004

Professional Responsibilities

<i>Position</i>	<i>Office/Location</i>	<i>Period</i>
Assistant Lecturer	University of Education, Winneba	Nov. 2020 to date
Chief Research Assistant	University of Education, Winneba	Jan, 2017 - Dec, 2020
Principal Research Assistant	University of Education, Winneba	Jan, 2011- Jan, 2017
Research Assistant	University of Education, Winneba	Oct, 2005 - Jan, 2011
National Service Personnel	University of Education, Winneba	2004 - 2005
Teacher	Methodist 'A' Junior High School	Sep.2011–Aug, 2014
Ph.D Science Education	University of Education, Winneba	2021

M.Phil Science Education	University of Education, Winneba	2016– 2018
Postgraduate Diploma of Education	University of Education, Winneba	2012 – 2013
BSc Chemistry	University of Cape Coast	2000-2004

Career History

<i>Position/Title</i>	<i>Name of Institution</i>	<i>Date</i>
Assistant Lecturer	University of Education, Winneba	Dec. 2020 – date
Teacher	Methodist ‘A’ Junior High School	1997

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

Produced:

- Twumasi, A. K., Nartey, E., **Quayson, C.**, Sam, A., & Hanson, R. (2023). Chemistry students’ knowledge and practices of chemical waste management in chemistry laboratories. *African Journal of Chemical Education*, 13(3), 21-41.
- Essiam, C., Osei-Antwi, D., & Quayson, C. (2023). Are Chemistry topics difficult to learn? the stance of Ghanaian senior high school students. *International Journal of New Trends in Arts, Sports & Science Education (IJTASE)*, 12(2), 112-121.
- Quayson, C.**, Twumasi A. K, Koranteng, E & Hanson, R. (2022). Chemistry Teacher Trainees’ use of Molecular Models in Learning Spiro and Bicyclic Compound. *Science Education International* 33(3), 291-295.
- Twumasi A. **K**, Hanson, R., Nartey, E., Sam, A, **Quayson, C.** (2021). Teacher Trainees’ Alternative Conceptions about Intermolecular Forces. *International Journal of Innovative Science and Research Technology*, 6(12), 18-23.
- Quayson, C., & Hanson, R. (2020). Using Molecular Models to Name and Illustrate Structures of Monocyclic Compounds. *Химия: Природните науки в образованието*, 29(6), 692-711.
- Hanson, R., Twumasi, A. K., **Aryeetey, C.**, Sam, A., & Adukpo, G. (2016). Secondary School Students’ Conceptual Understanding of Physical and Chemical Changes. *Asian Journal of Education and Training*, 2 (2), 44-52.
- Sam, A., Niebert, K., Hanson, R. & **Aryeetey, C.** (2016). Fusing Scientists’ and Students’ Conceptual Correspondences to Improve Teaching of Metal Complex Isomerism in Higher Education-An Educational Reconstructive Process. *International Journal of Academic Research and Reflection* . 4, (1), 54-64.

Antwi, V., & Aryeetey, C. (2015). Students' conception of Heat and Temperature: A study on two senior High Schools in the Central Region of Ghana. *International Journal of Innovative Research and Development*, 4(4), 288-301.

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 th -29 th August 2021

Grants and Proposal Writing Seminar (Developing a Convincing Research Proposal by the Directorate of Research Innovation and Development) UEW, North Campus 1st June, 2021

Seminars, Workshops and Conferences

Workshop on the orientation for Academic Counsellors organised by the Division of Human Resource on the 27th of February 2024 at Jophus Anamuah-Mensah Conference Centre.

Workshop on the Innovative Teaching Strategies in Physics by the Department of Physics Education at the South Campus Lecture Theatre 8 on the 29th of June 2023.

Equipping University of Education, Winneba Staff on Quality Assurance Issues in GTEC's New Standard and Norms by the Quality Assurance Directorate in collaboration with the Division of Human Resources on 9th May 2023.

Inauguration of Women in Science, Technology, Engineering and Mathematics, Ghana (WiSTEM) - UEW Chapter on 8th March, 2023.

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

Workshop on Bridging the gender gap in STEM	15 th September 2022
Seminar on Using the Theory of Planned Behavior to Investigate the effect of ICT -Based	14 th September 2022

Seminar on factors influencing senior high school students' Performance in core Mathematics in the Greater Accra Region in Ghana	14 th September 2022
Seminar on the academic integrity of assessment results in the digital space: the UEW	14 th September 2022

The Effect of Exemplary Materials on Students' Performance and Knowledge Retention in Hybridization and Spatial Arrangement of Atoms and Molecules organised by the Faculty of Science Education on 2nd March 2022.

Out of national women's football team: Experiences of former Ghanaian sports organised by the Faculty of Science Education on 2nd 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 the Directorate of Research Innovation and Development at Jophus Anamuah-Mensah Conference Centre on the 19th July 2021.

Gluconic acid, a secondary metabolite from cultures of fungi growth on smoked cassava fish (*Pseudotilotus Senegalensis*) organised by the Faculty of Science Education on 16th June, 2021.

Women in Leadership organised by the Gender Mainstreaming Directorate at Jophus Anamuah-Mensah Conference Centre on the 10th March 2021.

UEW ICT Training Workshop on the Use of the ITS, AVU Centre, Faculty Block, UEW, Winneba-1st to 5th September, 2019.

UEW ICT Training Workshop on the Use of the Official University E-mail, AVU Centre, Faculty Block, UEW, Winneba -28th July, 2018.

Job Re-Evaluation Workshop for Senior Staff of the Public Universities at the University of Cape Coast, from July 21st to July 25th, 2014

International Conferences, Seminars and Symposiums

PPDCI Conference Empowering teachers: Leveraging Leadership for Instructional Mastery by International Chamber of Language Teachers, Virtual on 24th February 2024

The International Women's Day Conference 2023 on the theme Bridging the Gender Equality Gap through Technology and Digitalization on the 8th -9th March 2023.

Inter-University Conference for Doctoral Studies working in collaboration with the School of Graduate Studies for a 3-day seminar on the theme "Promoting Staff Development through Collaborative Research and Quality Teaching in Education" on the 17th -19th January 2023.

International Multidisciplinary Conference for Postgraduate Students organised by postgraduate students of the University of Education in collaboration with the School of Graduate Studies at Josphus Anamuah-Mensah's Conference Centre on the theme Change and Digital Transformational in the New Normal: The Role of the Postgraduate Student on 15th-16th 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 22nd-24th 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 26th-28th October 2021 (Participant)

International Multidisciplinary Conference for Postgraduate Students organised by postgraduate students of the University of Education in collaboration with the School of Graduate Studies at Josphus Anamuah-Mensah's Conference Centre on the 15th-16th July 2021 (Participant)

Canada International Conference on Education (CICE-2021) in collaboration with World Congress on Education organised by Canada International Conference on Education (CICE-2021) in cooperation with World Congress on Education, Mississauga, Canada on the 22nd June-24th June, 2021 (Presenter)

Membership of Professional Association(s):

<i>Name of Association</i>	<i>Position held (if applicable)</i>	<i>Period</i>
American Chemical Society	Member	July. 22 to date
University Teachers Association of Ghana	Member	Dec. 2020 to date

Institutional Service

<i>Name of Committee(s) and/or Board(s)</i>	<i>Position or role</i>	<i>Period</i>
Mathematics and Science Camp	Secretary	2022 to date

Community Service

<i>Name of Institution/Organisation</i>	<i>Position(s) held (if applicable)</i>	<i>Period</i>
Science Outreach with UNIPRRA North JHS Students at Jophus Anamuah Mensah;s Conf. Centre	Member	24 th February, 2023
Developing Stem Skills of rural girls through Indigenous-based practices at Ateitu (UEW)	Member	10 th February, 2023
Chemistry Festival Planning comm. (Dept. of Chem. Edu.)	Member	June, 2020 to date
Methodist Conference 2022 planning comm.	Secretary	August. 2022
Methodist Church, Ghana	Leader	2019 to date
Methodist Church, Ghana	Local preacher	2022

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>
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Chemistry Festival Grant	American Chemical Society	July 2020–March 2021
Chemistry Festival Grant	American Chemical Society	July 2021–March 2022
Chemistry Festival Grant	American Chemical Society	August 2022-March 2023
Chemistry Festival Grant	American Chemical Society	July, 2023-March 2024
Chemistry Festival Grant	American Chemical Society	May 2024

Referees

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Signature:



Date: 11th May, 2024