



Curriculum Vitae

Michael Odenkey Quaye, Ph. D.

Personal Data:

Postal Address: Department of Agricultural Science Education
Faculty of Science Education
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Nationality: Ghanaian

Areas of Expertise or Professional Skills:

- Crop production, crop nutrition, agroecology and crop physiology with a focus on sustainable soil fertility management and crop performance improvement.
- Science/agriculture education at various level of education in Ghana

Education:

Academic Qualifications

- PhD (Agronomy)
 - Institution: Kwame Nkrumah University of Science and Technology (KNUST), Kumasi
 - Year Awarded: 2025
- MPhil (Agronomy)
 - Institution: Kwame Nkrumah University of Science and Technology (KNUST), Kumasi
 - Year Awarded: 2018
- MEd (Science Education)
 - Institution: University of Cape Coast (UCC)
 - Year Awarded: 2012
- Diploma in Education
 - Institution: University of Education, Winneba (UEW)
 - Year Awarded: 2010
- BSc (Agriculture Technology)
 - Institution: University for Development Studies (UDS)
 - Year Awarded: 2006

Career History:

Professional Experience

- **Lecturer**

- **Institution: University of Education, Winneba**
- **Period: January 2024 – Present**
- **Key Responsibilities:**
 - Prepare and deliver lectures, tutorials, and field practical demonstrations
 - Develop curricula and course materials
 - Set and grade assignments, tests, and examinations
 - Invigilate examinations
 - Conduct research and write papers, proposals, journal articles, and books
 - Supervise students project work
 - Supervise students teaching practice
 - Attend and participate in meetings, conferences, seminars, workshops, and other academic events
 - Provide academic counselling to students
 - Coordinate students' industrial attachments
 - Engage in community service within and outside the University

- **Assistant Lecturer**

- **Institution: University of Education, Winneba**
- **Period: January 2022 – December 2023**
- **Key Responsibilities:**
 - Prepared and delivered lectures, tutorials, and field practical demonstrations
 - Developed curricula and course materials
 - Set and graded assignments, tests, and examinations
 - Invigilated examinations
 - Conducted research and produced academic publications and proposals
 - Participated in academic meetings, conferences, and workshops
 - Provided academic counselling to students
 - Coordinated students' internships and attachments
 - Engaged in community service within and outside the University

- **Tutor**

- **Institution: St. Louis College of Education, Kumasi**
- **Period: November 2015 – December 2021**
- **Key Responsibilities:**
 - Taught Integrated Science and Agricultural Science courses
 - Planned, prepared, and implemented appropriate lesson plans
 - Conducted formative assessments for student teachers
 - Supervised student teachers' teaching practice programmes
 - Supervised final-year student project work
 - Invigilated examinations
 - Served on the Supported Teaching in Schools (STS) Committee
 - Provided academic counselling
 - Served as Assistant Examiner for Institute of Education (UCC) and ITECPD (UEW)

- **Teacher**

- **Institution: Amaniampong Senior High School, Mampong Ashanti**
- **Period: September 2007 – October 2015**
- **Key Responsibilities:**
 - Planned and delivered lessons in Integrated Science and General Agriculture
 - Served as a Form Master, guiding students on study skills and classroom challenges
 - Coordinated field practical work for Agricultural Science students
 - Invigilated internal and external examinations
 - Conducted continuous (formative) assessments for students

Publications: Peer-Reviewed Journal Articles

1. Asante, I. K., & Quaye, M. O. (2025). Agripreneurial Potential of University Agricultural Science Students: Opportunities in Agri-Food Systems for Africa's Development. *Journal of Agribusiness & Rural Development*, 77(3).
2. Agyeman, K., Frimpong, F., Amankwaa-Yeboah, P., Osei-Bonsu, I., Yeboah, S., Keteku, A., Paul Marno, P., Brempong, M. B., Danquah, E. O., Adjei, E. A., **Quaye, M. O.**, & Berchie, J. N. (2023). Physiological Resilience of Bambara Groundnut (*Vigna subterranea* L. Verdc) Genotypes to Intermittent Periods of Drought Stress at Different Growth Stages. *Agricultural Sciences*, 14(11), 1573-1592.

3. Agyeman, K., Brempong, M. B., Ofosu, A., Danquah, O. E., Keteku, A. K., Marno, P., Atta Poku, P. S., **Quaye, M.O** and Berchie, J. N. (2023) Yield Potential of Improved Maize Achieved from Optimal Rates of YARA Crop Nutrition Fertilizers for Sustainable Maize Production in the Semi-Deciduous Forest Agro-Ecological Zone of Ghana. *Asian Journal of Plant Sciences*. 13(8), 311.
4. Agyekum, M. W., Yeboah, S. B., Dzradosi, C., Ofosu-Ampong, K., **Quaye, M. O.**, Donkoh, C., Acquah, A., Dzikunu, C. E., Pajibo, E., Yelkpie, D., Tamanja, M. J. & Nsoh, E. A. (2023). Rural-urban differentials in early childhood education and child development: Evidence from Multiple Indicator Cluster Survey (MICS) in Ghana. *PLOS Global Public Health*, 3(8), e0002171.
5. Adu, J., Nyadanu, D., Nyarko, A., **Quaye, M. O.**, Kuor, F., & Menka, C. A. (2023). Identification of High-Yielding Landraces and Hybrids of Maize (*Zea mays* L.) and the Heritability of Yield-Related Traits in Ghana. *Asian Journal of Advances in Agricultural Research* 22(4), 22-33.
6. Agyeman, K., Berchie, J. N., Danquah, E. O., Addy, S., Keteku, A. K., Marno, P., Obeng, E. A., Adomako, J., Atta Poku Snr, P., Addo-Sarkodie, J., Sakyiamah, B., & **Quaye, M. O.** (2022). Enhancing the Productivity and Sustainability of Bambara Groundnut (*Vigna subterranea* (L.) Verdc.) Production Using Inorganic Phosphorus Fertilizer. *Agricultural Sciences*, 13(10), 1117-1135.
7. Nyarko, A., Sarkodie-Addo, J., Adofo, K., **Quaye, M.O.** and Adu, J. (2022). Growth and Yield Characteristics of Two Sweet Potato (*Ipomoea batatas* L.) Varieties as influenced by Organic and Inorganic Fertilizer Application. *International Journal of Plant & Soil Science*, 34,17: 98-104
8. Nyarko, A., Sarkodie-Addo, J., Adofo, K., Addae-Duah, O and **Quaye, M.O.** (2022). Nutritional Quality Response of Sweet Potato to Different Rates of Organic and Inorganic Fertilizers. *International Journal of Plant & Soil Science*, 34,8: 10-15
9. Duah, O. A., **Quaye, M. O.** and Nyarko, A. (2021). Effect of Some Storage Methods on the Quality of Maize Grown in the Ashanti Mampong Municipality of Ghana. *Journal of Experimental Agriculture International*, 43,11: 106-113
10. **Quaye, M. O.**, Sarkodie-Addo, J., Agyeman, K., Atta Poku Snr, P. and Kyere, C. G. (2020). Contribution of Okra (*Abelmoschus esculentus* L. Moench) – Cowpea (*Vigna unguiculata* L. Walp) Intercropping to Productivity of the System in Semi-deciduous Forest Zone of Ghana. *Asian Journal of Advances in Agricultural Research*, 13:3, 10-20.
11. Antwi, V., Opare, S. A., Fianoo, G. E. and **Quaye, M. O.** (2019). Practices of Co-operative and Enquiry Learning in Physics Lessons in the Colleges of Education in Ghana. *International Journal of Modern Physics and Applications*, 5:1, 1-10

Professional Development:

Training Sessions and Workshops attended:

- **Promoting Staff Development through Collaborative Research and Quality Teaching in Education**
 - **Organizer:** Inter-University Conference for Doctoral Studies (IUCDS) in collaboration with the School of Graduate Studies (SGS), University of Education, Winneba
 - **Location:** Jophus Anamuah Mensah Conference Centre, North Campus, UEW
 - **Period:** 17th to 19th January, 2023
- **The State-of-the-Art in Scientific Writing and Publication**
 - **Organizer:** University of Education, Winneba, with funding from Volvo Research and Educational Foundations (VREF)
 - **Location:** Virtual
 - **Period:** 7th June to 2nd August, 2022
- **Building Research Capacity and Grant Capture Opportunities in UEW**
 - **Organizer:** Directorate of Research, Innovation and Development (DRID), University of Education, Winneba
 - **Location:** North Assembly Hall, North Campus, UEW
 - **Period:** 2nd November, 2022
- **Online Design, Teaching and Learning**
 - **Organizer:** Digital Society School of Amsterdam University of Applied Sciences
 - **Location:** Virtual
 - **Period:** 25 hours, ended on 1st May 2020
- **T-TEL Professional Development Programme on Assessing Trainee Teachers**
 - **Organizer:** National Council for Tertiary Education (NCTE) in partnership with the National Teaching Council (NTC)
 - **Location:** St. Louis College of Education
 - **Period:** 2016/2017 academic year
- **Seminar on GTEC's Standards and Norms on Quality Assurance Issues**
 - **Organizer:** Quality Assurance Directorate in collaboration with the Division of Human Resource, University of Education, Winneba
 - **Role:** Participant
 - **Location:** Jophus Anamuah-Mensah Conference Centre
 - **Period:** 9th May, 2023

- **Stakeholder Engagement to Solicit Inputs to Design Tailor-Made Programmes and Establish Partnership**
 - **Organizer:** Department of Agricultural Science Education, University of Education, Winneba
 - **Role:** Presenter
 - **Location:** Seminar Room, Students Centre
 - **Period:** 1st November, 2022
- **Workshop on Grantsmanship for Faculty Members**
 - **Organizer:** Institute for Educational Research and Innovative Studies (IERIS), University of Education, Winneba
 - **Role:** Participant
 - **Location:** IERIS Conference Hall
 - **Period:** 22nd – 23rd September, 2022
- **Workshop on Grantsmanship**
 - **Organizer:** Directorate of Research, Innovation and Development (DRID), University of Education, Winneba
 - **Role:** Participant
 - **Location:** North Assembly Hall
 - **Period:** February, 2022
- **Subject-Based Course Manual PD Training Workshop for Tutors of Colleges of Education**
 - **Organizer:** Institute for Teacher Education and Continuing Professional Development (ITECPD), University of Education, Winneba
 - **Role:** Participant
 - **Location:** Windy Lodge Hotel, Winneba
 - **Period:** May, 2021
- **Test Item Construction Workshop for Tutors of Colleges of Education**
 - **Organizer:** Institute for Teacher Education and Continuing Professional Development (ITECPD), University of Education, Winneba
 - **Role:** Participant
 - **Location:** Windy Lodge Hotel
 - **Period:** March, 2021
- **Test Item Construction Workshop for Subject Leads of Colleges of Education**
 - **Organizer:** Institute for Teacher Education and Continuing Professional Development (ITECPD), University of Education, Winneba
 - **Role:** Participant
 - **Location:** Windy Lodge Hotel, Winneba
 - **Period:** November, 2019

- **T-TEL Professional Development Programme on Assessing Trainee Teachers**
 - **Organizer:** National Council for Tertiary Education (NCTE) in partnership with the National Teaching Council (NTC)
 - **Role:** Participant
 - **Location:** St. Louis College of Education, Kumasi
 - **Period:** 2017/2018 academic year
- **2nd Easter Forum: Early Childhood Care and Development – Strengthening Best Practices, Innovations and Research in Ghana**
 - **Organizer:** University of Cape Coast
 - **Role:** Participant
 - **Location:** University of Cape Coast, Cape Coast
 - **Period:** 8th June, 2016

Books and Course Manuals Co-authored

Title: Agricultural Project Work

- **Authors:** Kyere, K., Asante, I. K., & Quaye, M. O.
- **Year:** 2023

Title: Agribusiness Management for JHS

- **Authors:** Kyere, K., Quaye, M. O., & Kavi, F. K.
- **Period:** 2023
- **Publisher:** UEW Printing Press

Title: Plant Physiology

- **Authors :** Koomson, C. K., Owusu-Fordjour, C., Quaye, M. O., & Mensah, N.
- **Year:** 2022
- **Publisher:** Otia Printing and Stationary Ltd, Kumasi

Membership of Professional Association(s):

Professional Memberships

- **University Teachers Association of Ghana (UTAG)**
 - **Position:** Member
 - **Period:** 2022 – Present
- **Ghana Science Association (GSA)**
 - **Position:** Member
 - **Period:** 2022 – Present

Institutional Service:

Committee and Board Memberships

- Committee for Developing MSc, MPhil, and PhD Curriculum in Agriculture and Rural Development
 - Role: Member
 - Period: 9th – 21st October, 2023
- Committee to Revise the BSc Agricultural Science Curriculum
 - Role: Member
 - Period: 23rd August – 13th September, 2023
- ITECPD External Assessor of Promotion Documents of Tutors of Colleges of Education
 - Role: Assessor
 - Period: 5th May, 2023
- Committee for the Writing of Proposal to Modernize and Commercialize the University Farm
 - Role: Member
 - Period: June, 2022
- Institute for Teacher Education and Continuing Professional Development (ITECPD), UEW
 - Role: Assistant Examiner
 - Period: 2019 – 2021

Community Service

- West African Examinations Council (WAEC)
 - Role: Assistant Examiner
 - Period: 2013 – 2021
- National Teaching Council (NTC)
 - Role: Assistant Examiner
 - Period: 2019 – 2021

Professional Service or Consultancy Outside the University

- Springboard Road Show Foundation (in partnership with Mastercard Foundation and Lyme Haus)
 - Period: August, 2023
 - Role: Consultant on the Ghana Grows Programme
 - Service Rendered:

- Delivered talks on career opportunities in Agriculture, Agribusiness, and the Agricultural Technical and Vocational Skills sectors to youth in Winneba and its environs.
- The program aimed to change negative perceptions about Agricultural Technical and Vocational Education and Training (ATVET) among young people.

Referees:

1. Prof. Benjamin Ghansah
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3. Prof. Vincent Logah
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Signature:

Date: 23rd October, 2025