

Shadrack Asomah, B.Sc., MPhil.

Department of Horticulture and Crop Production, School of Agriculture and Technology, University of Energy and Natural Resources, P.O. Box 214, Sunyani-Ghana

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Career Objective

To research insect-plant interactions, biodiversity and insect conservation, toward addressing contemporary global challenges.

Research Interest

- Insect Ecology
- Sustainable and Organic Agriculture
- Insect-Plant Interactions
- Commercial Insects Production

Education

University of Energy and Natural Resources, Sunyani-Ghana

Nov., 2022

MPhil Crop Science (Entomology option)

Thesis Topic: Evaluation of some life history parameters of African palm weevil (*Rhynchophorus phoenicis*) on different feed substrates.

Supervisor: Prof. Daniel Obeng-Ofori

University of Energy and Natural Resources, Sunyani-Ghana

Jun., 2018

BSc. Agriculture (Crop Production)

Thesis Topic: Effect of N.P.K. (15:15:15) fertilizer, poultry manure and their combination on the growth and yield of cabbage.

Supervisor: Dr. Jacob P. Anankware

Professional Experience

Senior Laboratory Technician

Feb. 2021 to Date

University of Energy and Natural Resources, Sunyani-Ghana

Responsibilities:

- Assist in the planning and implementation of field and laboratory experiments, including guiding students on proper layout and data collection techniques
- Collect, organize, and analyze experimental data using appropriate software and statistical methods.
- Contribute to the preparation of scientific manuscripts, including data analysis and interpretation.
- Ensure the proper functioning of laboratory equipment and instruments, including calibration and maintenance
- Provide technical support and training to students and researchers, including the use of laboratory equipment and software.
- Perform demonstrations of laboratory techniques and procedures to enhance student understanding.

Teaching and Research Assistant

Nov. 2018 – Oct. 2021

Department of Horticulture and Crop Production, University of Energy and Natural Resources, Sunyani - Ghana.

Responsibilities:

- Contributed to entomology courses by assisting with lectures, providing supplementary materials, and answering student questions.

- Trained students in the use of various statistical software packages (GenStat, Origin Pro, MiniTab) to analyze data, including data cleaning, hypothesis testing, and data visualization.
- Assisted in the preparation of scientific manuscripts, contributing to data analysis, interpretation, and writing sections.

Skills and Competency

- **Computer and Statistical literacy:** Proficient in GenStat, R-software (Beginner), ArcGIS, Statistx, Minitab, Origin Pro, Microsoft Office Suite (Ms. Word, Excel, PowerPoint Presentation) and Adobe Photoshop.
- **Laboratory literacy:** Proficient in culturing insects and evaluation of biological pest control strategies. I am also skilled in the use of light microscopy (Axio Lab5, Mighty and Motic Microscope), Autoclave, Media preparation, Isolation of pathogens, and rearing of commercial insects (Bee, African palm weevil, Black soldier flier and Silkworm).
- **Language literacy:** Proficient in English and Asante Twi

Scholarship

Won scholarship grant from DKK 11,998,970 (US\$1.78 Million) grant from DANIDA to work on edible insects. Window 1 project “HEALTYNSECT”, DFC File No. 19-08-KU. From April 01, 2020, to May 31, 2022

Publications

1. Anankware, J., Debrah, **S.**, **Asomah**, S., Egonyu, J., & Obeng-Ofori, D. (2024). *Morphometrics and reproductive parameters of Rhynchophorus morphotypes (Coleoptera: Curculionidae) in Ghana*. Research Square. DOI: <https://doi.org/10.21203/rs.3.rs-4919892/v1>
2. R. R. Adjei, E. Kyere, N. Ibrahim, A. S. Boateng, **S Asomah**, S. K. Asomaning & C. Adarkwah (2024) Pattern of pesticide usage among tomato farmers for sustainable production in the Bono East Region, Ghana, *Cogent Food & Agriculture*, 10:1, DOI: <https://doi.org/10.1080/23311932.2024.2307128>
3. Debrah, S. K., Anankware, J. P., Malinga, G. M., **Asomah**, S., & Obeng-Ofori, D. (2024). Variation in substrate nutritional composition and its effects on the growth, development, and nutrient composition of *Rhynchophorus phoenicis* Fabricius (Coleoptera: Curculionidae). *Journal of Insects as Food and Feed*, 1, 1-14. DOI: <https://doi.org/10.1163/23524588-20230059>
4. Anankware, J. P., Debrah, S. K., **Asomah**, S., Egonyu, J. P., Eilenberg, J., Roos, N., & Obeng-Ofori, D. (2023). Interactive effects of temperature and substrates on selected life history parameters of the African palm weevil *Rhynchophorus phoenicis* (Fabricius)(Coleoptera: Curculionidae). *Journal of Insects as Food and Feed*, 1, 1-14. DOI: <https://doi.org/10.1163/23524588-20230064>
5. **Asomah S.**, Anankware, J. P., Debrah S. K., & Obeng-Ofori D. (2023). Evaluation of different substrates on the life history parameters of African palm weevil, *Rhynchophorous phoenicis* (Coleoptera: Curculionidae) in Ghana. *Cogent Food & Agriculture*. 9(1), 1-10. DOI: <https://doi.org/10.1080/23311932.2023.2232170>
6. Debrah, S. K., Anankware, P. J., **Asomah**, S., & Ofori, D. O. (2023). Challenges associated with *Rhynchophorus phoenicis* Fabricius (Coleoptera: Curculionidae) farming: a case study of the Ejisu-

Juaben Municipality. *Journal of Insects as Food and Feed*. 9(1) 15-24. DOI: <https://doi.org/10.3920/JIFF2021.0219>

7. Debrah, S. K., Anankware, P. J., **Asomah, S.**, & Ofori, D. O. (2022). Substrates: a solution to the mass production of African palm weevil (*Rhynchophorus phoenicis*)(F.)(Coleoptera: Curculionidae). *Journal of Insects as Food and Feed*, 9 (3), 381-388. DOI: <https://doi.org/10.3920/JIFF2021.0220>
8. **Asomah, S.**, Anankware, J. P., & Adjei, R. R. (2021). Impact of organic and inorganic fertilizers on the growth and yield of cabbage in Ghana. *International Journal of Horticultural Science*, 27, 46-49. DOI: <https://doi.org/10.31421/ijhs/27/2021/8923>

Community Services

Reviewer: International Journal of Tropical Insect Science (2023 – Date); Journal of Insect as Food and Feed (2023 – Date); Discover Food (2024); International Journal of Environment and Climate Change (2023 – Date); Asian Journal of Soil Science and Plant Nutrition (2023 – Date). **Member**, Committee to Restructure Postgraduate Accreditation Document at the Department of Horticulture and Crop Production – UENR (2023); **Alumni Representative**, UENR Dormaa Campus (2023 – Date); **Moderator**, Springboard Road Show Foundation- Ghana Grows Project (2023); **Facilitator**, Training of trainers in bio-entomology–Sunyani; Ghana (2020); **District Trainer**, Population and Housing Census, Ghana (2021); **Dining Hall Prefect**, Presbyterian Senior High School, Bechem –Ghana (2013).

Workshops and Trainings Attended

- Youth Ambassador Training in Agric – Ghana Grows Project 2024
- Annual students employability camp at UENR; Ghana 2023
- AMPLIFIES Ghana Project training at Dormaa Ahenkro; Ghana 2019
- Google training on “Basic Digital Skills” at UENR; Ghana 2019
- In-house presentation at CSIR-CRI- Kumasi; Ghana 2017
- Sixth Annual Pre-Harvest Agribusiness Event – Sunyani; Ghana 2016

Referees

1. **Prof. Daniel Obeng-Ofori**; Vice Chancellor; Catholic University of Ghana – Sunyani; Ghana; **Tel:** +233242877113; **E-mail:** danielobengofori@yahoo.com
2. **Prof. Charles Adarkwah**; Professor; Department of Horticulture and Crop Production, School of Agriculture and Technology, University of Energy and Natural Resources (UENR) - Sunyani; Ghana; **Tel:** +233241251970; **E-mail:** charles.adarkwah@uenr.edu.gh
3. **Dr Jacob Paarechuga Anankware**; Senior Lecturer and Vice Dean of Students; Department of Horticulture and Crop Production, School of Agriculture and Technology, University of Energy and Natural Resources (UENR) -Sunyani; Ghana; **Tel:** +233246776156; **E-mail:** anankware@yahoo.com / jacob.anankware@uenr.edu.gh