

Wonder Sekey

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PROFILE

Motivated fish ecologist and conservation biologist interested in the preservation and restoration of endangered aquatic species and exploring the link between aquatic ecosystems and the human population.

EDUCATION

Kwame Nkrumah University of Science and Technology, Kumasi-Ghana **Sept 2017 - Nov 2021**
Bachelor of Science in Natural Resources Management, First Class Honors **GPA: 3.0/4.0**

- Relevant Courses: Introduction to Fisheries Science and Aquaculture, Fish Ecology, Aquatic Ecology, Wetlands Management, Principles of Aquaculture, Aquaculture Systems, Integrated Fish Farming, and Aquaculture Engineering.
- Projects: Final year project on ‘*Assessment of Shark Fisheries along the Volta Region Coastline in Ghana*’

Ave Senior High School, Akatsi North, Ghana **May 2013 - May 2016**
Agricultural Science Program, West African Senior School Certificate Examination

- Relevant Courses: Integrated Science, Mathematics, Chemistry, Physics, English Language, Social Studies.

RESEARCH AND PUBLICATIONS

- Obirikorang, K. A., **Sekey, W.**, Gyampoh, B. A., Ashiagbor, G., & Asante, W. (2021). Aquaponics for Improved Food Security in Africa: A Review. *Frontiers in Sustainable Food Systems*, 300.
- **Sekey, W.**, Obirikorang, K. A., Alimor, T. A., Soku, M., Acquah, B., Gyampoh, B. A., Adjei-Boateng, D., Asare-Ansah, O., Ashiagbor G., & Kassah, J.E. (2022). Evaluation of the shark fisheries along the Coastline of Ghana, West Africa. *Regional Studies in Marine Science*, doi: <https://doi.org/10.1016/j.rsma.2022.102434>.
- Obirikorang, K. A., **Sekey, W.**, Amenutsuor-Vondee, S., Kweku-Akagbo, E., Adjei-Boateng D., Kassah J.E., & Gyampoh, B.A. (2022). Functional feeding traits and Fecundity as predictors of invasive success of the introduced Nile tilapia, *Oreochromis niloticus* in Lake Bosomtwe, Ghana. *Biological Invasions*. (*Under Review*).
- **Sekey W.**, Obirikorang, K.A., Boadu, K.B., Nantwi-Mensah, A., Yeboah, I.E., Asare-Ansah, O., Gyampoh, B.A., Adjei-Boateng, D. (2022). Mangrove plantation and fuelwood supply chain dynamics in the Keta Lagoon Complex Ramsar Site, Ghana. *Wetlands Ecology and Management*. (*Under Review*).

WORK EXPERIENCE

Research and Teaching Assistant **Oct 2021 – Present**
Kwame Nkrumah University of Science and Technology – Kumasi, Ghana.

- Lead field and lab data collection
- Helps in the preparation of manuscripts for publication.
- Review student theses and assignments.

- Assisting an MPhil student on a Danida project in Ghana to research pond sediment oxygen consumption and respiration to enhance fish culture in Ghana.
- Facilitates students' learning process.
- Conduct literature reviews.
- Assist in setting up students' field and lab experiments.

Assistant Fish Farm Technician.

Oct 2021 – Present

Kwame Nkrumah University of Science and Technology – Kumasi, Ghana.

- Assists fish feed preparation.
- Assists in pond stocking activities and feeding of fish.
- Spearhead pond preparation sessions and keeps farm records.
- Involve in the harvesting and post-harvest processing of fish,

Field and Research Assistant

June – Aug 2019

Forestry Research Institute of Ghana – Fumesua, Kumasi, Ghana.

- Prepared seeds of various plant species for distribution to farmers.
- Managed nurseries and helped farmers in planting seedlings.
- Prepared lab reports and presented research results at monthly symposiums.
- Helped in the preparation of research manuscripts.

Field and Office Assistant

June – Aug 2018

Ministry of Food and Agriculture – Akatsi South District, Ho, Ghana.

- Inspected farms and helped in farmer education.
- Prepared field reports and wrote minutes for meetings.
- Collected farmer's demographic information for the preparation of the database.

ORGANIZATION

AquaLife Conservancy, Kumasi, Ghana

June 2021 - Present

- Assisting in organizing and implementing threatened aquatic animals' conservation programs.
- Writing grant proposals.
- Collecting and analyzing qualitative and quantitative data.
- Writing field reports.
- Creating awareness on the conservation of endangered marine species in Ghana.
- Engaging communities on alternative livelihoods to reduce fishing pressure in coastal villages in Ghana.

GRANTS AND CONSERVATION PROJECTS

Millennium Oceans Prize - Millennium Campus Network

Aug 2021 - Jul 2022

- Received a grant prize of \$5,000 to restore the mangroves and fisheries of the Keta Lagoon Complex Ramsar Site, Ghana.
- Planted 4,000 seedlings of mangroves in the Ramsar site to restore the breeding and nursery ground of fishes.
- Created awareness of mangroves and disseminated information on the sustainable practices to conserve the mangroves including replanting and sustainable fishing practices.
- Established a demonstration fish farm and trained 20 community members on catfish farming to create an alternative livelihood to mangrove fuelwood harvesting and fishing.

Guitarfish and Shark Conservation Project - AquaLife Conservancy, Ghana

Sept 2022 - Present

- Working with local fishers to identify nursery grounds for sharks and guitarfish along the coasts of Ghana.

- Creating awareness on the conservation of endangered shark and guitarfish species in Ghana.
- Engaging communities on alternative livelihoods to reduce fishing pressure on guitarfishes and sharks.
- Planning an ecotourism program to encourage the conservation of dolphins in Ghana.

CERTIFICATES

- **Coastal Ocean Environment Summer School in Ghana** *Aug 2021*
Gained experience in Ocean acidification, Marine pollution, Conservation science, and Ocean management.
- **National Science and Maths Quiz, Regional Competition, Ho, Ghana** *Sept 2015*
Represented my school to win second place in the competition.

VOLUNTEER ACTIVITIES

- **Peer Counselor, Kwame Nkrumah University of Science and Technology** *June 2019 - Aug 2021*
Over two years during my undergraduate studies, I functioned as a volunteer peer counselor to help students with financial, mental, and social challenges by counseling.
- **Math and Science Tutor, Ave Senior High School - Volta Region, Ghana** *Aug - Oct 2018*
Tutored high school students in mathematics and science.
Facilitated the learning process of students in science and math.

LEADERSHIP ROLES

- **Team Lead, Mangrove Restoration Project – Keta, Ghana.** *Oct 2021 – Present*
Leading a team of Research Assistants and students on a mangrove restoration project funded by the Millennium Campus Fellowship and the Remmer Family Foundation. Responsibility includes the administration of programs and coordinating activities.
- **Vice President of Maths and Science Club - Ave Senior High School.** *Feb 2015 - May 2016*
Involved in founding and leading the science and mathematics club in high school to address poor performance and the issues of math phobia.

SKILLS AND INTERESTS

- Computer skills: Statistical Package for Social Sciences (SPSS), Microsoft Excel, Word and PowerPoint, Quantum GIS.
- Good presentation, academic writing, record keeping, teaching, analytical and interpersonal skills.
- Interests: Nature conservation, community engagement, youths in aquaculture.