MICHAEL ADU-BREW

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EDUCATION

M.S. in Entomology

University of Maryland, College Park

08/2023 - Present

B.S. in Biological Science

Kwame Nkrumah University of Science and Technology

09/2017 - 11/2021

RESEARCH EXPERIENCE

University of Maryland, College Park (UMD)

Research Assistant

08/2023 - Present

- Conducting toxicity bioassays, undertaking exposure estimates, and assessing risk of pesticides on Lepidoptera, particularly monarch butterfly
- Rearing of butterflies
- Data entry and analysis
- Writing blogs on seminar presentations

Kwame Nkrumah University of Science and Technology, Ghana (KNUST)

Undergraduate Project: "Identification of insect pest on some vegetables".

01/2021 - 10/2021

- Sampled a total of 609 insects, that spread across 8 orders, 14 families and 21 genus/species. Among our findings, we discovered that the farmers lacked knowledge of Integrated Pest Management (IPM) approach of controlling insect pests.
- Served as the project leader for a group of four students. Delivered an oral defense of research work to faculty members and submitted a research paper to be graded.

CONFERENCE PRESENTATION

Michael, A and Krishnan, N, "Assessing the toxicity and risk of newer conventional and biological pesticides on monarch butterflies (*Danaus plexippus*)", 2024 Eastern branch ESA annual meeting, Morgantown, WV, March 2024.

SEMINAR BLOG

- Jenan EL. and Michael A. "Complex Problems Requires Complex, Data-Informed Solutions", February, 2024.
- Michael A and Ben, B. "Going viral with a tick talk: Modeling tick life histories using fifteen years of field data", December, 2023

TEACHING EXPERIENCE

Department of Theoretical and Applied Biology, KNUST [National Service]

11/2021 - 08/2022

Teaching Assistant / Lab Instructor Assistant

Instructor: Dr. Sandra Abankwa (Entomology); Dr. Augustina A. Sylverken (Microbiology); Dr. Kwadwo Boampong (Population genetics).

Collaborated with laboratory technicians to ensure availability of chemicals for each experiment

 Worked with other teaching assistants to supervise laboratory projects of over 200 Biological science students.

CITA Junior High School, Akim-Oda, Ghana

Mathematics and Integrated Science Teacher

[Part time]

08/2018 - 08/2019

 Instructed middle school students in Mathematics and Social Studies and prepared final year students for the B.E.C.E.

AWARDS, HONORS & SCHOLARSHIP

•	Phi Kappa Phi Honors	04/2024
	University of Maryland, College Park (Graduate Assistantship).	07/2023
	College of Science Students' Achievement Program (COSSAP).	06/2022
	Science Student Association (SCISA), KNUST	08/2020

ACADEMIC ACHIEVEMENTS

- One of ten distinguished baccalaureates from the 2021 class to be engaged as teaching and research assistants at the Department of Theoretical and Applied Biology, KNUST.
- Outstanding performance in undergraduate Project (BIOL 455/456) in the 2021 graduating class of the bachelor's degree program in the KNUST.
- Graduated as the best student in my middle school in 2013.

LEADERSHIP/SERVICE

- Member of the Science Student Association's Advisory Board for the 2020/2021 Academic year.
- Served as the Vice President of the Science Student Association (SCISA), College of Science for the 2019/2020 Academic year.
- Served as the Chairman of the Welfare Committee, SCISA for the 2019/2020 Academic year.

VOLUNTEERING/OUTREACH

Insect Zoo, Maryland Day 05/2024

Intern *Kumasi Center for Collaborative Research in tropical medicine*

10/2022

Tutor

College of Science Students' Achievement Program (COSSAP), KNUST

03/2022 - 08/2022

Project Coordinator

Science Students Association (SCISA), KNUST

11/2018

PROFESSIONAL AFFLIATION

American Association for the Advancement of Science (AAAS).

2024

Entomological Society of America

2023 - Present 2023 - Present

Entomology Students' Association, UMD

2023 - 1 lesem

■ Ghana Science Association (GSA).

2021 - 2023

Biological Science Student Association (BIOSSA), KNUST

2017 - 2021

SKILLS

■ Lab Skills: LC-MS/MS, generation of toxicity dose-response curves, butterfly rearing

■ **Application**: MS Office (Word, Excel, PowerPoint)

■ Data Analysis tools: SPSS, Excel, R

REFERENCE

Niranjana Krishnan

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Department of Entomology,
University of Maryland, College Park
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