

Name | Email | Phone #

PROFESSIONAL SUMMARY

Molecular geneticist with 5+ years of laboratory experience in DNA/RNA isolation, qPCR, antimicrobial resistance profiling, and molecular cloning. Passionate about non-invasive genetics, wildlife conservation, and environmental microbiology. Currently completing a thesis on wildlife monitoring using non-invasive molecular sampling. Seeking a PhD program to advance interdisciplinary research in genetics and wildlife disease ecology.

EDUCATION

Mississippi State University — Starkville, MS

Master of Science (MS), Wildlife, Fisheries, and Aquaculture

(Dates)

- **Thesis:** Developing Non-Invasive Molecular Sampling Methods for Effective Wildlife Monitoring
- **Directed Independent Study:** Environmental Microbiology

Alcorn State University — Lorman, MS

Master of Science (MS), Agricultural Biotechnology

(Dates)

- **Thesis:** Whole Genome Sequencing and the Construction of Infectious Poplar Mosaic Virus Clones

Kwame Nkrumah University of Science and Technology — Kumasi, Ghana

Bachelor of Science (BS), Natural Resource Management

(Dates)

- **Thesis:** NDVI and Avifauna Distribution in the Nkwanta Sites of the Ankasa Conservation Area

RESEARCH EXPERIENCE

Graduate Research Assistant

Mississippi State University — Starkville, MS

(Dates)

- Maintained safety and daily operations in the Non-Invasive Genetics Laboratory.
- Developed protocols for eDNA and non-invasive wildlife sample processing.
- Trained undergraduate researchers and collaborated with cross-institutional partners.

Graduate Research Assistant

Alcorn State University — Lorman, MS

(Dates)

- Maintained and experimented on model plants (*Nicotiana spp.*, *Arabidopsis thaliana*) for virology studies.

- Cloned and constructed infectious viral genome sequences.
- Maintained laboratory records and trained student assistants.

TEACHING EXPERIENCE

Teaching Assistant

Mississippi State University — Starkville, MS

- WFA 4433 Mammalogy | Fall 2021
 - Delivered a lecture on *Chiroptera*; assisted with labs and student learning.
- WFA 4243 Wildlife Techniques | Spring 2022
 - Assisted with hands-on lab instruction, student questions, and grading.

PROFESSIONAL EXPERIENCE

Laboratory Manager

Alcorn State University — Lorman, MS

(Dates)

- Managed lab inventory and equipment maintenance.
- Supported students and upheld lab safety and protocols.

Administrative Assistant, IACUC

Alcorn State University — Lorman, MS

(Dates)

- Provided support for committee activities, inspections, and protocol follow-ups.

LABORATORY & MOLECULAR SKILLS

- DNA & RNA extraction (plant, bacterial, environmental, non-invasive)
- Gel electrophoresis, qPCR, PCR, reverse transcription, cloning
- Bacterial culture, antibiogram testing, microscopy, aseptic techniques
- Selective media preparation, molecular data analysis

SOFTWARE & ANALYTICAL TOOLS

- Microsoft Office Suite (Excel, Word, Outlook)
- ArcGIS, ArcGIS Pro
- R (basic level)
- Genemapper, GenAlEx, Sequence Scanner, BioEdit

RESEARCH INTERESTS

- Non-Invasive Genetics & Wildlife Monitoring
- Environmental DNA (eDNA) and Conservation Genomics

- Wildlife Disease Ecology and Antimicrobial Resistance
- Molecular Virology and Microbial Ecology

PUBLICATIONS

██████████ (2022). *Developing non-invasive molecular sampling methods for effective wildlife monitoring* (Master's thesis, Mississippi State University).

██████████ (2018). *Whole genome sequencing and the construction of infectious Poplar Mosaic Virus clones* (Master's thesis, Alcorn State University).

██████████ (2016). *Normalized difference vegetation index (NDVI) and avifauna distribution in the Nkwanta sites of the Ankasa Conservation Area* (Bachelor's thesis, Kwame Nkrumah University of Science and Technology).

POSTERS & PRESENTATIONS

(To be added when available)

CONFERENCES ATTENDED

(To be added when available)