Fadeke Adeola

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# Education

**University of New Orleans:** - New Orleans, LA **Bachelor of Science:** Biological Sciences, 2017 **Ph.D.:** Integrative Biology, Attending **President’s List:** Summer 2016

**Dean’s List:** Fall 2016, Spring 2017

# Activities

## 2020/2023 (SICB) Society for Integrative and Comparative Biology Conference Session Chair

* Introduced Speakers
* Monitored Times of Speaker Presentations

## 2018/2019 STEM Camp Graduate Mentor

* Introduce Incoming Freshmen to Introductory Classes on Campus
* Familiarize Incoming Freshmen to Resources Available on Campus

## 2016/2017 General Chemistry I/II Teaching Assistant

* Provide supplemental instruction for general chemistry students
* Provide tutoring and extra help in understanding general chemistry concepts

# Internships

## 2016 (Summer) Environmental Research

* Analyzed soil samples from areas affected by Deep Water Horizon spill
* Agar plate preparation
* Identified microbes in soil samples

# Research

**Octopamine mediates mating interactions in the house cricket (*Acheta domesticus*)**

* Cricket husbandry
* Oral Supplementation of Neurotransmitter
* Bite force measurements through printed circuit sensor and corresponding program
* Formal selection analysis of results using R software

# Conferences

## 2023 (SICB) Society for Integrative and Comparative Biology Conference

* Presenter: Antennae removal affects calling effort and lifespan but not metabolic rate in adult male *Teleogryllus commodus* crickets

## 2020 (ERN) Emerging Researchers National Conference in STEM

* Presenter: Octopamine mediates mating interactions and sexual conflict in the house cricket (*Acheta domesticus*)

## 2020 (SICB) Society for Integrative and Comparative Biology Conference

* Presenter: The Influence of Dampened Locomotor Function on Calling Effort in the house cricket *Acheta domesticus*

## 2019 Innovate UNO Conference

* Annual Research Symposium at the University of New Orleans
* Presenter: Octopamine mediates mating interactions and sexual conflict in the house cricket (*Acheta domesticus*)

## 2019 (SICB) Society for Integrative and Comparative Biology Conference

* Presenter: Octopamine mediates mating interactions and sexual conflict in the house cricket (*Acheta domesticus*)
* Present research and communicate ideas on sexual conflict, fitness and performance

## 2017 5th Annual HBCU Climate Change Conference

* Present results based on research on invasive wild animals in Louisiana
* Promote ideas based on climate change

## 2017 DU LS-LAMP/STEM Conference

* Present research based on feral animals and climate change in Louisiana

# Awards

## 2020 (ERN) Emerging Researchers National Conference in STEM

* 1st place Graduate Oral Presentation General Category: Biological Sciences

## 2020 (ERN) Emerging Researchers National Conference in STEM

* ERN travel award

## 2017 DU LS-LAMP/STEM Conference

* Present results based on research with invasive wild animals

**Programming/Software/Skills**

## R Python C/C++/Arduino UNIX command line Git PC Board Soldering

**Work Experience University of New Orleans** New Orleans, LA 08/2019 – 08/2022 **Living Learning Community Graduate Assistant**

* Planning Events Involving Faculty Members and Students
* Facilitating Events for 200+ students of STEM majors within the residents halls
* Coordinate Marking with the Director of Residential Life and the Department of Biological Sciences

**University of New Orleans** New Orleans, LA 08/2017 – 01/2022

## Biology Graduate Teaching Assistant

* Teaching Intro Biology Laboratory Course
* Introducing fundamentals of conversions, pipette usage, spectrophotometry, running PCR and gel electrophoresis

**University of New Orleans** New Orleans, LA 01/2016 – 05/2017

## Chemistry Teaching Assistant

* Tutoring General Chemistry Students
* Leading a Supplemental Chemistry Course of 30 students

# Publications

* Maximum performance expression is affected by octopamine and antennae removal in Acheta domesticus. <https://doi.org/10.1093/beheco/arac036>
* Octopamine affects courtship call structure in male *Acheta domesticus* crickets. <https://doi.org/10.1016/j.yhbeh.2022.105191>