

# Fadeke Adeola

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## Education

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**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

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### **2020 (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

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### **2016 (Summer) Environmental Research**

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

## Research

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### **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

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### **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**

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

- 1<sup>st</sup> 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**

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<b>R</b>	<b>Python</b>	<b>C/C++/Arduino</b>	<b>UNIX command line</b>	<b>Git</b>
	<b>PC Board Soldering</b>			

### **Work Experience**

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**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**

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- 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>