

### **Faculty Member Contact Information**

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<b>Contact Info</b>	
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<b>Department</b>	Biological Sciences

### **1 Funded, 1 Unfunded URCA Assistant(s)**

**Are you willing to work with students from outside of your discipline? If yes, which other disciplines?**

- No

**How many hours per week will your student(s) be required to work in this position?**  
(Minimum is 6 hours per week; typical is 9)

- 9

**Will it be possible for your student(s) to earn course credit?**

- Yes, in BIOL 493 for 1-3 credit hours.

**Location of research/creative activities:**

- SIUE Nature Preserve and research lab (SW 0220)

**Brief description of the nature of the research/creative activity?**

- This research involves passive acoustic monitoring of bat populations on the SIUE campus and an adjacent nature preserve. The student will assist with collecting and analyzing bioacoustic data from AudioMoth recording units to examine the effects of invasive bush honeysuckle (*Lonicera mackii*) on bat activity.

**Brief description of student responsibilities?**

- Students will learn how to collect and analyze bioacoustic data. They will be expected to present the results of their research at a scientific meeting and will also assist with manuscript preparation for publication in a scientific journal.

**URCA Assistant positions are designed to provide students with *research or creative activities* experience. As such, there should be measurable, appropriate outcome goals. What exactly should your student(s) have learned by the end of this experience?**

- The student will know:
  - 1) how to use a GPS unit to locate plots
  - 2) how to configure AudioMoth recording units
  - 3) how to process and analyze bioacoustic data with Kaleidoscope Pro software
  - 4) how to use Excel and statistical software for data analysis
  - 5) how to take laboratory notes
  - 6) how to prepare a poster for presentation at a scientific meeting

### **Requirements of Students**

**If the position(s) require students to be available at certain times each week (as opposed to them being able to set their own hours) please indicate all required days and times:**

- N/A

**If the location of the research/creative activities involves off campus work, must students provide their own transportation?**

- All sites are on or adjacent to the SIUE campus and are within walking distance.

**Must students have taken any prerequisite classes? Please list classes and preferred grades:**

- BIOL 150 and 151 with at least a B.

**Other requirements or notes to applicants:**