

# ROB BAILEY

## EDUCATION

2020

- **University of Texas at Austin**  
B.S. in Environmental Science, biological sciences   📍 Austin, Texas  
  
GPA: 3.18  
  
Thesis: The effect of individual sexual strategy on cognition in male *Xiphophorus nigrensis*

## RESEARCH EXPERIENCE

February 2018  
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Present

- **Undergraduate Research Assistant**  
UTEX Culture Collection of Algae, University of Texas   📍 Austin, TX
  - Experience making many different types of algal medias and sterile transfers.
  - Experience with DNA extraction, PCR, gel electrophoresis, DNA purification and analysis of algal strains.
  - Conducted lab maintenance of over 3000 algal samples and cryogenic samples, and conducted extensive cleaning of environment, glassware, etc.

June 2019  
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Present

- **Undergraduate Researcher**  
Dr. Molly Cumming's Lab, University of Texas   📍 Austin, TX
  - Formed and ran experiments testing cognitive functions and behavior in poeciliid fish with a team.
  - Wet lab experience with fish health upkeep and general aquarium upkeep.
  - Experience working with animal tracking software, as well as tracking behaviors by hand.
  - Experience working on scientific reports and effectively communicating the results.

Summer 2019

- **Marine Invertebrate Taxonomy Student**  
Marine Invertebrate Taxonomy Course, University of Washington, Friday Harbor Laboratories   📍 Friday Harbor, WA
  - Complete overview and study of marine invertebrate phylogenies.
  - Extensive field collection of marine invertebrate samples.
  - Wet lab experience with organism care and upkeep.
  - Dissection work with and without microscopy.

May 2018

- **Volunteer Field Assistant to Todd Jackson**  
City of Austin Watershed Protection Department   📍 Austin, TX
  - Collected and identified stream invertebrates for watershed quality analysis
  - Conducted water quality sampling and habitat assessment during stream surveys



## CONTACT INFO

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🌐 [github.com/rob-bailey](https://github.com/rob-bailey)

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For more information, please contact me via email.

## SKILLS

*Laboratory:* DNA extraction, PCR, gel electrophoresis, DNA purification, Dissection, Microscopy, freshwater aquaria maintenance

*Computer:* Proficient in R, Microsoft suite, familiarity with Python, ArcGIS, EthoVision (animal tracking), Git

*This resume was made with the R package [pagedown](#).*

*Last updated on 2019-12-15.*

Fall 2018



**Assistant to Undergraduate Researcher**

University of Texas

📍 Port Aransas, TX

- Diatom sampling and data collection along the coast of Port Aransas, Texas
- Field preparation and initial laboratory preparation of diatom samples

Summer 2017



**Volunteer Research Assistant**

Dr. Jay Banner Cave Research Team, University of Texas

📍 New Braunfels, TX

- Assisting in stalactite drip data collection at Natural Bridge Caverns
- Assisting in initial chemical preparation of samples

## COMMUNITY AND VOLUNTEER SERVICE

November 2018 & 2019



**McKinney Falls State Park**

Volunteer with UT Rock Climbing

📍 Austin, TX

- Worked to clear overgrowth out of trails and build up existing trails for better access.
- Helped lead climbing classes demonstrating technique and basic skill for local climbing group.

Spring 2017



**Yellow Bike Project**

Volunteer

📍 Austin, TX

- Provide assistance with bike building in a low-income community in order to provide alternative transportation.
- Assist in sorting through and organizing donated bike parts.



## LEADERSHIP

December 2018  
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Present



**Public Relations Officer**

The University of Texas Rock Climbing Team

📍 Austin, TX

- Contact and maintain relationships with various sponsors and coordinate sponsor involvement in events.
- Guide a collegiate sports team of 80 members during practices, meetings, and events.
- Ran social media accounts for the team to bring in more sponsors and publicity for fundraising.
- Put on 3 climbing competitions with an officer team (~140 participants per competition).



## OTHER SKILLS



**Field Work**

- water quality testing of stream and river pH, dissolved oxygen, turbidity, basic water chemistry
- general habitat assessment and ecological surveying
- macroinvertebrate sampling