

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

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

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

- Extensive field collection of marine invertebrate samples.
- Wet lab experience with organism care and upkeep.
- Dissection work with and without microscopy.

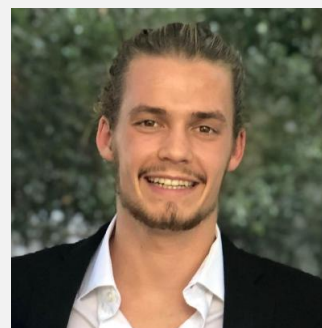
May
2018

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

• Assistant to Undergraduate Researcher, University of Texas



CONTACT INFO

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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 2019-12-14.

Austin, TX

📍 November 2017

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

- **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

No-
vember
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

Decem-
ber 2018
|
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