

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 nigrens*



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.

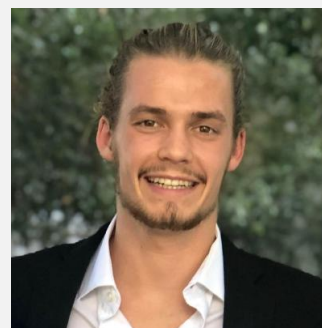
Summer
2019

- **Marine Invertebrate Taxonomy Student**
Marine Invertebrate Taxonomy Course, University of Washington, Friday Harbor Laboratories 📍 Friday Harbor, WA
 - 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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📞 +1 210-862-8600

For more information, please contact me via email.

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

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

● **Computer**

- EthoVision (animal tracking)
- Git familiarity

Laboratory

- Dissection
- Microscopy
- Freshwater aquaria Maintenance

Field

- water quality testing of stream and river pH, dissolved oxygen, turbidity, basic water chemistry

- general habitat assessment and ecological surveying
- macroinvertebrate sampling