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 poecilid 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.
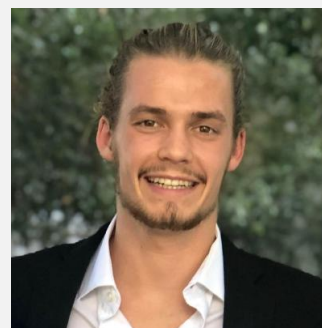- Experience working on scientific reports and effectively communicating the results.

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

✉ rob.bailey@utexas.edu

⌨ github.com/rob-bailey

📞 +1 210-862-8600

For more information, please contact me via email.

SKILLS

Experienced in statistical analysis and statistical models.

Full experience with DNA extraction, PCR, gel electrophoresis, DNA purification.

Proficient in R, Python, ArcGIS, Microsoft suite

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

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 | 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
Other computer skills   📍 [Present]

- EthoVision (animal tracking)
- Git familiarity

Laboratory
Other lab skills   📍 [Present]

- Dissection
- Microscopy
- Freshwater aquaria Maintenance

Field

field work experience   ♦ [Present]

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