Ryan E. Bailey
2502 Leon St. Austin, TX 78705
Email: ryanbailey@utexas.edu
Phone: (361) 946-8386 | https://www.linkedin.com/in/ryan-bailey

Education

The University of Texas at Austin, Austin, TX   May 2021

GPA: 3.91
Bachelor of Science and Arts in Biology ——— GPA: 3.88

Elements of Computing Certificate ——— GPA: 3.66

Pre-Health Professions Certificate ——— GPA: 3.96

Work and Experience

Researcher and Mentor in the Microbe Hackers Stream (Freshman Research Initiative)   Researcher : January 2018 - January 2019
- Co-lead a research project
- Teach a small discussion section   Mentor: January 2019 - Present
- Grade lab reports and research proposals

Volunteer Researcher in the Mueller Lab (Department of Integrative Biology)   June 2018 - March 2019
- Helped graduate student, Chi-Chun Andy Fang make a developmental table for three species of myrmicine ants: *Solenopsis invicta, Atta texana,* and *Mycocepurus smithii*

Volunteer Researcher in the Kowalski Lab (Department of Oncology)   February 2019 - Present
- Perform statistical analyses to find molecular signatures of left versus right sided colorectal neoplasms

Projects

Broad Host Range Plasmid Kit   January 2018 - Present
- A kit of plasmids designed to quickly identify genetic part compatibility in non-model prokaryotes
- Molecular cloning approach to genetic modification of non-model bacteria
- Awarded bronze at the International Genetically Engineered Machines Conference 2018

Capstone Project - Biostatistics SDS 328M   June 2018 - December 2018
- Used R to model climatological data from the National Oceanic and Atmospheric Administration's database

Service, Activities, Leadership, and Awards

Ascension Seton - Volunteer - 120+ hours   January 2019 - Present

International Genetically Engineered Machines Giant Jamboree — Bronze Medal   October 2018

Health Careers Mentorship Program - Intern   January 2020 - Present

Interests

Oncology | Machine Learning | Cell and Molecular Biology | Scientific Literacy | Teaching | Immunology and Immunotherapy | Portraiture

Skills

- Adobe Suite - Photoshop, Lightroom, and InDesign
- Molecular Biology
- Landscape and Portrait Photography

- Data Representation: Tableau and ggplot2
- Bioinformatics: R 3.6.0
- Software Design: Python 3.7
- Professional Communication