

EDUCATION

The University of Texas at Austin, Austin, TX

Graduation Date: May 2021

Bachelor of Science in Biology

- Concentration in Genetics and Genomics; GPA 3.7
- Certification in Elements of Computing including coursework in Python basics, software engineering, and machine learning

RESEARCH EXPERIENCE

Undergraduate Research Assistant at The University of Texas at Austin

November 2018 – Present

Assistant in a molecular biology laboratory focusing on evolution, specifically synthetic biology applications, and genome dynamics

- Develop a tool to test plasmid compatibility with non-model bacteria species to streamline engineering and extend synthetic biology's capabilities in non-model hosts.
- Design and build plasmids using PCR, Golden Gate Assembly, and Gibson Assembly, among others.
- Use R software for data analysis and diagnostic purposes.

Freshman Research Initiative at The University of Texas at Austin

January 2018 – December 2018

Student in an undergraduate research lab exploring synthetic biology and genetic engineering

- Learned molecular techniques such as purification and quantification of genetic material.
- Communicated experiment design and progress in reports.
- Explained experiment details and complex scientific concepts to a general public audience.

ACTIVITIES & LEADERSHIP

Student Leader for iGEM Competition Team

January 2018 – October 2018

- Coordinated and executed the project's bioethics and safety component.
- Co-led a group of 15 students in planning and developing a research project.
- Competitively presented the oral and poster projects at the iGEM jamboree in Boston.

SKILLS

- Programming: Python, R, Microsoft Office (PowerPoint, Excel, Word)
- Laboratory: Primer and construct design, gel electrophoresis, PCR, Golden Gate Assembly, Gibson Assembly, bacterial conjugation, DNA isolation

HONORS AND AWARDS

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| • UT College of Natural Sciences' Second Year Excellence Award | 2019 |
| • Thermo Fisher Scientific Award for Excellence in Biological Sciences | 2019 |
| • UT Austin Freshman Research Initiative Summer Fellowship Recipient | 2018 |

WORK EXPERIENCE

Undergraduate Research Assistant at The University of Texas at Austin - Barrick Laboratory

June 2019 – Present

- Work effectively in an academic laboratory environment scheduled during the school day.
- Exhibit scientific creativity and a desire to learn.
- Document progress and setbacks and communicate it to more senior lab members to receive feedback.

Employee for Steel City Popsicles

June 2018 – December 2018

- Handled transactions, took and processed orders, and interacted with customers in a professional manner.
- Made and handled food items with safe and sterile technique.

Lifeguard for the City of Lake Jackson Parks and Recreation Department

July 2015 – January 2018

- Enforced rules and prevented dangerous behavior.
- Responded to emergency situations and treated injuries.