Eleanor Young

Austin, TX, 78705

www.linkedin.com/in/eleanorlyoung | https://github.com/EleanorYoung937

EDUCATION

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

Bachelor of Science in Biology

- Coursework in microbiology, plant molecular biology, probability and statistics, genetics, and epigenetics
- Concentration in Computational Biology; GPA 3.7
- Certification in Elements of Computing with coursework in Python basics, bioinformatics, and machine learning
- Three years of laboratory experience
- Departmental Honors with thesis

RESEARCH EXPERIENCE

Undergraduate Research Assistant, Barrick Laboratory at UT Austin   November 2018 – Present

- Directed an independent project to investigate unintended side effects of antibiotic use in synthetic biology
- Worked on a team to help design and develop a plasmid toolkit to quickly engineer diverse non-model bacteria
- Wrote analysis scripts in BASH to use *breseq* on a remote computing cluster to analyze genomic mutations in evolved bacterial lines
- Analyzed and visualized data in R; generated and shared reports using Rmarkdown

Biotechnology Research Internship at Asuragen [cancelled due to COVID-19]   May 2020 – August 2020

Freshman Research Initiative, Microbe Hackers at UT Austin   January 2018 – December 2018

- Learned introductory wet lab molecular biology, microbiology, and synthetic biology techniques
- Frequently worked as part of larger team to complete cloning experiments and analysis
- Explained complex scientific concepts to a non-tech audience
- Communicated experiment design and progress in reports

CAMPUS INVOLVEMENT & LEADERSHIP

Undergraduate Teaching Assistant, Genetics Lab Course at UT Austin   August 2020 – December 2020

- Managed virtual lab sessions for a group of 15 students
- Graded and critiqued science writing-based assignments

Student Leader for International Genetically Engineered Machine (iGEM) Competition Team   January 2018 – October 2018

- Co-led a group of 15 students to plan, develop, and execute a research project to engineer diverse bacteria
- Designed and executed experiments to test our hypothesis
- Coordinated the project's bioethics and safety component
- Competitively presented the oral and poster projects at the iGEM jamboree in Boston

SKILLS

- **Programming**: BASH, proficient in Python (*numpy, scikit-learn, pandas*) and R (*tidyverse, ggplot2, dplyr, DESeq2*), basic SQL, Microsoft Office (PowerPoint, Excel, Word)
- **Laboratory**: Primer and construct design, gel electrophoresis, PCR, Golden Gate Assembly, Gibson Assembly, bacterial conjugation, DNA isolation and purification, data analysis, use of centrifuges, UV light box, and plate reader

HONORS AND AWARDS

- 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