

## Ashley Gilliam

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### EDUCATION

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College of Natural Sciences, University of Texas at Austin, Austin, Texas

**Bachelor of Science in Computational Biology**

**May 2022**

**Certificate in Applied Statistical Modeling**

**May 2022**

**Cumulative GPA: 3.93, STEM GPA: 3.94**

**Relevant Coursework:** Evolution, Genetics, Biostatistics, Computational Biology and Bioinformatics

### RESEARCH EXPERIENCE

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#### **Cambronne Lab**

**January 2020-Present**

- Assist in optimization of genetically encoded mitochondrial NAD<sup>+</sup> sensor using site-saturated mutagenesis and fluorescent assay screening in bacterial and mammalian cells.
- Mentor incoming students on project and research techniques
- Participate in lab meetings and discuss scientific articles

#### **Microbe Hackers Lab, Freshman Research Initiative**

**January 2019-August 2020**

- Isolated and identified symbionts of the Cyanobacteria species *O. lutea* such as *S. maltophilia* and *A. xylosoxidans*
- Transformed cyanobacteria with GFP+KANr plasmids via conjugation, reintroduced isolated transconjugants into *O. lutea* communities and observed via fluorescent microscopy

### WORK EXPERIENCE

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#### **UT OnRamps**

**September 2020-Present**

Course Grader

- Assist with management of dual credit high school Biology courses across multiple districts.
- Grade homework assignments, quizzes, and exams.

#### **Microbe Hackers Lab**

**November 2019-August 2020**

Peer Mentor

- Taught freshman students scientific techniques and how to conduct research
- Graded quizzes and lab report assignments
- Led the Cyanobacteria subproject

#### **HEB**

**June 2017-January 2020**

Cashier

- Checked out customers, provided service, and hospitality.
- Maintained store cleanliness

### HONORS AND AWARDS

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James F. and Bernice M. Hinton Endowed Presidential Scholarship Recipient

**Spring 2020**

College Scholar

**Spring 2020, Fall 2020, Spring 2021**

University Honors

**Fall 2018-Spring 2021**

### ACTIVITIES

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Member of the Longhorn Band Texas Silks, Fall 2019-present

- Perform at UT Football Games and other UT affiliated events
- Takes up on average of 20 hours per week during the fall semester

Member of Tau Beta Sigma, Spring 2020-present

- Volunteer at local events to enrich Austin community and Longhorn Band
- Participate in small group performances around campus to promote organization and represent the University.

Member of the American Statistical Association, Spring 2021-present

Member of Lion's Club, Spring 2019-Fall 2019

### SKILLS AND ABILITIES

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**Molecular Biology:** PCR, gel electrophoresis, DNA extraction and sequencing, protein induction and expression, mammalian cell culture, transfection, flow cytometry

**Microbiology:** Streaking, bacterial culture, transformation, conjugation, reintroduction

**Computational:** Microsoft Suite, R, Python