Ashley Gilliam

(281) 703-0613 ▪ Houston, Texas ▪ ashleykathgilliam@gmail.com ▪ https://www.linkedin.com/in/ashleykgilliam/

EDUCATION

University of Texas Health Science Center, School of Public Health — Houston, TX
Master of Science in Biostatistics, **Cumulative GPA:** 4.00/4.00 — Expected May 2024
University of Texas at Austin, College of Natural Sciences — Austin, TX
Bachelor of Science in Computational Biology, Certificate in Applied Statistical Modeling, **Cumulative GPA**: 3.95/4.00,
Honors: Graduated *cum laude*, Recipient of Endowed Presidential Scholarship (2021), College Scholar (2020-2022), University Honors (2018-2022)

WORK EXPERIENCE

GET PHIT Intern, Texas Health Care Information Collection — **January 2023-Present**
- Create and present independent report on cervical cancer and HPV rates in women using state-wide healthcare data
- Use SAS to analyze outpatient and inpatient data
- Simulate writing a legislative report about findings to present to state government

Graduate Research Assistant, UTHealth SBMI — **November 2022-Present**
- Determine variable relationships through a variable pairing algorithm across 40 datasets in RADx project
- Annotate mentions of datasets and repositories across hundreds of published articles using LANN

Course Grader Mentor, Biology Grader, UT Onramps — **September 2020-August 2022**
- Assist with management of high school Biology courses across 34 districts in Texas
- Grade lab assignments, quizzes, and exams for over 700 students
- Schedule meetings for calibrations and instruct 5 peer graders on how to accurately grade assignments

RESEARCH EXPERIENCE

Cambronne Lab, The University of Texas at Austin — **January 2020-May 2021**
- Optimized a genetically encoded mitochondrial NAD+ sensor using site-saturated mutagenesis and fluorescent assay screening in bacterial and mammalian cells
- Mentored peer on project and research techniques such as PCR, bacteria culture, and primer design
- Engaged in lab meetings and literature review with 11 lab members

Microbe Hackers Lab, UT 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
- Mentored eight freshman students on scientific techniques and how to conduct research and led Cyanobacteria team
- Graded quizzes and lab report assignments for 48 students

SKILLS AND ABILITIES

Computational: Microsoft Suite, R, Python, STATA, SAS, SQL, data visualization, cleaning, and annotation, 90+ WPM
Wet Lab: PCR, gel electrophoresis, DNA extraction and sequencing, protein induction and expression, mammalian cell culture, transfection, flow cytometry, streaking, bacterial culture, transformation, conjugation, reintroduction