

# Annika Jorgensen

Email: aljorge2@asu.edu  
Phone Number: 385-315-4242

## EDUCATION

---

### Arizona State University

MS Biology: Computational Life Sciences, GPA: 4.00

Tempe, AZ

2023-Present

### Arizona State University

Magna Cum Laude Honors BS Biophysics, GPA: 3.60

Tempe, AZ

2019-2023

## TECHNICAL SKILLS

---

- **R and RStudio:** Proficient in statistical programming, specializing in bioinformatics and biostatistics
- **Python and MATLAB:** Skilled in use of IDE and writing code for scientific computing
- **Bash:** Strong command of shell scripts for system automation and administration with SAM/BAM files
- **Git:** Extensive experience in version control and collaborative software development workflows
- **SQL:** Familiar with database management, query optimization, and data manipulation
- **Biostatistics:** Adept at utilizing statistical tests to analyze and interpret complex biological datasets
- **Data Visualization:** Experienced in creating statistical visualizations that are easily understood by nonscientists
- **Sequence alignment and Variant Calling:** Strong background in analyzing high-throughput sequencing data to identify genetic variations and make biological insights.
- **Quality Assessment:** Trained in ensuring data integrity and reliability through rigorous quality control and preprocessing techniques using FASTQ
- **Molecular Biotechnology:** Familiar with laboratory techniques including NGS, PCR, and genetic engineering

## EXPERIENCE

---

### Graduate Research Assistant—Dr. Melissa Wilson

Sex Chromosome Lab

November 2021-Present

Tempe, AZ

- Statistically analyzed sex-differential expression of genes
- Implemented biostatistical methods in R including multivariate regression, principal component analysis, and hypothesis testing
- Developed computational biology curricula at the undergraduate level
- Queried the Reactome database and performed hypergeometric overrepresentation analyses

### Teaching Assistant—Computing for Research

Arizona State University

Fall 2022; Fall 2023

Tempe, AZ

- Educated students on writing bash scripts and cloud computing on a cluster
- Educated students on sequence alignments and variant calling
- Educated students on sequencing quality control
- Educated students on SAM and BAM files

### Civica Rx

Commercial Intern

Summer 2020-Spring 2021

Lehi, UT

- Created and Maintained drug sales databases with Tableau and Excel
- Created government official datasheets
- Queried large databases with Tableau
- Drafted sales agreements for hospital partners