

Annika Jorgensen

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EDUCATION

Arizona State University

MS Biology: Computational Life Sciences, GPA: 3.97

Tempe, AZ

2023–2024

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
- **Quality Assessment:** Trained in ensuring data integrity and reliability through rigorous quality control and preprocessing techniques using FASTQ
- **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.
- **Molecular Biotechnology:** Familiar with laboratory techniques including NGS, PCR, and genetic engineering

WORK EXPERIENCE

Graduate Research Assistant–Dr. Melissa Wilson

Sex Chromosome Lab

November 2021–May 2024

Tempe, AZ

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

Teaching Assistant–Computing for Research

Arizona State University

Fall 2022; Fall 2023

Tempe, AZ

- Advised students on bash scripting and cloud computing in genomics
- Educated students on sequencing quality control
- Guided students aligning sequences and calling variants
- Explained to students what SAM and BAM files are

Commercial Intern

Civica Rx

Summer 2020–Spring 2021

Lehi, UT

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