Annika Jorgensen

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

Education

Arizona State University — Tempe, AZ
MS Biology: Computational Life Sciences, GPA: 3.97 — 2023–2024

Arizona State University — Tempe, AZ
Magna Cum Laude Honors BS Biophysics, GPA: 3.60 — 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

Bioinformatics Programmer–Dr. Xin Sun & Dr. Allen Wang — July 2024- Present
Xin Sun Lab & Center for Epigenomics — San Diego, CA

- Employ software tools to interpret biological data
- Analyze RNAseq and ATACseq data
- Conduct statistical methods on biological data
- Debug computer programs
- Maintain webages
- Documents changes to operational systems

Graduate Research Assistant–Dr. Melissa Wilson — November 2021-May 2024
Sex Chromosome Lab — 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

Commercial Intern — Summer 2020-Spring 2021
Civica Rx — 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