Annika Jorgensen

Email: aljorge2@asu.edu annieleejorg0705@gmail.com Phone Number: 385-315-4242 Website: annikajorgensen.com San Diego, CA

EDUCATION

Arizona State University

MS Biology: Computational Life Sciences, GPA: 3.97

Tempe, AZ
2023–2024

Arizona State University

Tempe, AZ

Honors BS Biophysics, GPA: 3.59 2019–2023

Riverton High School

Riverton, UT

High School Diploma, GPA: 3.97

2015–2019

EXPERIENCE

Research Assistant-Dr. Melissa Wilson

Sex Chromosome Lab

- Analyzed sex differential expression of genes
- Applied inferential statistics to student outcomes
- Implemented biostatistical methods in R

Teaching Assistant-CURE

Arizona State University

- Educated students on R and RStudio
- Educated students on genomics
- Educated students on differential gene expression

Teaching Assistant-Research Computing

Arizona State University

- Educated students on writing bash scripts
- Educated students on SSH
- Educated students on sequence alignments

Community Assistant

Arizona State University

- Created a community amongst residents
- Helped students in crisis
- Moved students in and out of the college dormitories

November 2021- May 2024

Tempe, AZ

Fall 2023

Tempe, AZ

- Constructed multivariate RNA-seq models
- Performed biochemical pathway analyses
- Searched and reviewed bioinformatics literature

- Educated students on how to write a manuscript

- Educated students on cancer cell lines
- Educated students on data visualization

Fall 2022, Fall 2023

Tempe, AZ

- Educated students on variant calling
- Educated students on SAM and BAM files
- Educated students on RNA-seq visualization

Winter 2021 - May 2023

Tempe, AZ

- Connected students to services within the university
- Maintained safety within the residence hall
- Mediated conflicts between residents

Compliance Editor

American Preparatory Academy

Fall 2021-May 2023

Draper, UT

- Edited IEPs for special education students

Managed projects special education services

- Took notes for IEP quality assurance

- Converted special education files to digital format

Eco Rep Fall 2022

Eco Reps ASU

Tempe, AZ

Tempe, AZ

- Educated students about sustainability

- Created engaging events focused on the environment

Research Aide Summer 2020-Fall 2021

SciHub ASU

Learned how to operate spectroscopy equipment

- Led the Fluorescence Spectroscopy Project

- Constructed electric circuits using reflow soldering - Drafted market studies for products

Commercial Intern Summer 2020-Spring 2021 Civica Rx Lehi, UT

- Developed drug sales datasheet - Created government official datasheet

- Scrubbed large databases - Drafted sales agreements for hospital partners

Publications

- Annika Jorgensen, "Sex-biased gene expression and pathway activation in hepatitis-associated HCC.", Barret, The Honors College Thesis/Creative Project Collection, May 2023
- Annika Jorgensen, Elizabeth S. Borden, Musa Gabere, Karen Taraszka Hastings, Melissa A. Wilson, Kenneth H. Buetow, "Sex-Differential Expression Analysis in Viral-Mediated Hepatocellular Carcinoma.", In Preparation

Conferences

- 1. Annika Jorgensen, Elizabeth S. Borden, Musa Gabere, Karen Taraszka Hastings, Melissa A. Wilson, Kenneth H. Buetow, "Sex-Differential Expression Analysis in Viral-Mediated Hepatocellular Carcinoma.", UACC Cancer Research: Present and Future, September 2022
- Annika Jorgensen, Mary Carlson "TWIST 1 Expression Induced by TNF α & TGF β.", SLCC SME Symposium, May 2019

SKILLS

- R: Skilled in use of Differential Expression and Statistical analysis in R
- Python: Skilled in use of IDE and writing code
- MATLAB: Skilled in use of IDE and writing code
- **Arduino:** Skilled in operation of IDE and making circuits
- Mathematica: Skilled in accessing biological databases and operating symbolic math library
- Bash: Skilled in writing scripts for working with SAM & BAM files
- Git: Familiar with software developement workflows and version control
- Sequence alignments: Can conduct sequence alignments and call variants
- Quality assessments: Can run quality checks on raw sequencing data

PROJECTS

Differential Expression Analysis Working on Sex Differential Expression Analysis to discover genes sex deferentially expressed in Liver Cancer Fluorescence Spectrometer Project The development of a portable fluorescence spectrometer used to detect skin cancer TWIST 1 in HEK 293 cells TWIST 1 Expression Induced by TNF α & TGF β . The study of TWIST 1 expression in HEK 293 cells PcO6 and Production of Biofilm 2018 The study of how PcO6 produces biofilm on root plating and in liquid medium.

EXTRACURRICULAR ACTIVITIES

•	ASU Herstory Committee	Spring 2022
	Tempe Vice-Chair. I worked on creating events centered around the women experience for the	ASU Tempe Campus.
•	SWE ASU	2019-2022
	Outreach Director 2020 and K-12 Outreach Director 2021. I coordinate all volunteer and service	e events for SWE ASU
•	LDS Hospital	Summer 2019
	Volunteered in ICU helping patients take walks, stocking medical supplies, and taking calls	