

Annika Jorgensen

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San Diego, CA

EDUCATION

Arizona State University MS Biology: Computational Life Sciences, GPA: 4.0	Tempe, AZ 2023- Current
Arizona State University Honors BS Biophysics, GPA: 3.59	Tempe, AZ 2019–2023
Riverton High School High School Diploma, GPA: 3.97	Riverton, UT 2015–2019

EXPERIENCE

Research Assistant–Dr. Melissa Wilson Sex Chromosome Lab	November 2021- Present Tempe, AZ
<ul style="list-style-type: none">– Analyzed sex differential expression of genes– Applied inferential statistics to student outcomes– Implemented biostatistical methods in R	<ul style="list-style-type: none">– Constructed multivariate RNA-seq models– Performed biochemical pathway analyses– Searched and reviewed bioinformatics literature
Teaching Assistant-CURE Arizona State University	Fall 2023-Present Tempe, AZ
<ul style="list-style-type: none">– Educated students on R and RStudio– Educated students on genomics– Educated students on differential gene expression	<ul style="list-style-type: none">– Educated students on how to write a manuscript– Educated students on cancer cell lines– Educated students on data visualization
Teaching Assistant-Research Computing Arizona State University	Fall 2022, Fall 2023 Tempe, AZ
<ul style="list-style-type: none">– Educated students on writing bash scripts– Educated students on SSH– Educated students on sequence alignments	<ul style="list-style-type: none">– Educated students on variant calling– Educated students on SAM and BAM files– Educated students on RNA-seq visualization
Community Assistant Arizona State University	Winter 2021 - May 2023 Tempe, AZ
<ul style="list-style-type: none">– Created a community amongst residents– Helped students in crisis– Moved students in and out of the college dormitories	<ul style="list-style-type: none">– 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

Eco Reps ASU

Fall 2022

Tempe, AZ

- Educated students about sustainability

- Created engaging events focused on the environment

Research Aide

SciHub ASU

Summer 2020-Fall 2021

Tempe, AZ

- Led the Fluorescence Spectroscopy Project
- Constructed electric circuits using reflow soldering

- Learned how to operate spectroscopy equipment
- Drafted market studies for products

Commercial Intern

Civica Rx

Summer 2020-Spring 2021

Lehi, UT

- Developed drug sales datasheet
- Scrubbed large databases

- Created government official datasheet
- 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*
2. **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 development 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

2021–Present

Working on Sex Differential Expression Analysis to discover genes sex differentially expressed in Liver Cancer

Fluorescence Spectrometer Project

2021

The development of a portable fluorescence spectrometer used to detect skin cancer

TWIST 1 in HEK 293 cells

2019

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 events for SWE ASU

- **LDS Hospital**

Summer 2019

Volunteered in ICU helping patients take walks, stocking medical supplies, and taking calls