

EDUCATION

Arizona State University MS Biology: Computational Life Sciences, GPA: NA	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

Undergraduate Lab Aide—Dr. Melissa Wilson Sex Chromosome Lab	November 2021- Present Tempe, AZ
<ul style="list-style-type: none">– Analyzed sex differential expression of genes– Ensured quality control of RNA-seq data– 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 Arizona State University	Fall 2022 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
Compliance Editor American Preparatory Academy	Fall 2021-Present Draper, UT
<ul style="list-style-type: none">– Edited IEPs for special education students– Managed projects special education services	<ul style="list-style-type: none">– Took notes for IEP quality assurance– Converted special education files to digital format
Eco Rep Eco Reps ASU	Fall 2022 Tempe, AZ
<ul style="list-style-type: none">– Educated students about sustainability	<ul style="list-style-type: none">– Created engaging events focused on the environment
Research Aide SciHub ASU	Summer 2020-Fall 2021 Tempe, AZ
<ul style="list-style-type: none">– Led the Fluorescence Spectroscopy Project– Constructed electric circuits using reflow soldering	<ul style="list-style-type: none">– 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**, Elizabeth S. Borden, Musa Gabere, Karen Taraszka Hastings, Melissa A. Wilson, Kenneth H. Buetow, “Sex-Differential Expression Analysis in Viral-Mediated Hepatocellular Carcinoma.”, *In Progress*

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
- **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