# ELIZABETH GILSON

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# **EDUCATION**

University of California, Berkeley

Berkeley, CA

Master of Molecular Science and Software Engineering

May 2024

University of Washington, College of Arts and Sciences

Seattle, WA

Bachelor of Science, Biochemistry, Departmental Honors, Minor in Applied Math

June 2023

### RELEVANT EXPERIENCE

Merck Berkeley, CA

Capstone Project

January 2024 – Current

- Finetuned an LLM for analysis of scientific articles with PyTorch using Gemma as the base model
- Automated data scraping, cleaned data, calculated performance metrics of the model
- Worked with databases using SQL

## **UC Berkeley Department of Integrative Biology**

Berkeley, CA

**Graduate Student Instructor** 

Sep 2023- May 2024

- Led lab sessions of 32 students, presenting to students and guiding them through concepts in Integrative Biology
- Graded assignments and exams, and helped in the creation of new assessments
- Held office hours and provided additional support to students of different skill levels

# Chavkin Lab - UW Pharmacology

Seattle, WA

Research Intern

June 2021 – January 2023

- Researched in vitro intracellular signaling for various peripherally restricted drugs
- Plated and transfected cells, imaged cells under a fluorescent microscope, performed data analysis, and prepared drug and buffer solutions
- Provided over 104 pieces of data for a paper that is soon to be published
- Presented at UW Undergraduate Research Symposium 2022

# NIDA Summer Internship - Harvard Medical School

Belmont, MA

Research Intern

June 2022 – August 2022

- Trained one-on-one by the director of Psychiatric Neurogenomics at McLean Hospital, Dr. Carl Lin
- Researched genetic risk factors for cocaine addiction
- Conducted luciferase and protein assays, plasmid isolation, DNA purification, and PCR
- Presented at the 2022 NIDA Summer Research Internship Program Project Showcase

### **UW Paul G. Allen School of Computer Science & Engineering**

Seattle, WA

#### Head Teaching Assistant

June 2023 - Sep 2023

- Held weekly teaching sessions, guest lectured in topics of Data Structures and Algorithms
- Led a subcommittee of three other teaching assistants
- Graded assignments and exams, providing in-depth feedback on Java code
- Coordinated with the instructor to provide feedback and suggestions for improving the course content

## **SKILLS**

**Languages**: Python, C++, Java, R, Matlab, Machine Learning Techniques (PyTorch and TensorFlow)

**Developer Tools**: Git, VS Code, Eclipse, Jupyter Notebooks ML Models: Llama2, Gemma

Experience in running HPC applications at scale using MPI and OpenMP

#### **VOLUNTEER EXPERIENCE**

Free Radicals May 2020 – June 2021

Was involved with an activist collective aimed at making science more equitable. Facilitated book clubs to share further education into the intersection of social issues and science.