

EDUCATION

Oregon State University

Expected Graduation: Spring 2026

Bachelor of Science, Biology, Minors: Chemistry & Biochemistry/MB (GPA 3.27) Corvallis, OR

- **Relevant Coursework:** Principles of Biology, General Chemistry, Organic Chemistry, Genetics, Evolution, Statistics, Vertebrate Physiology, Python for Molecular Biologists, Intro. Biological Data Science, Computer Programming for non-CS Majors, Calculus (Differential & Integral).

EXPERIENCE

Oregon State University

Corvallis, OR

Bioinformatics/Genomics Research, OSU Chang Lab

Feb. 2025 – Present

- Training and refining Helixer, a deep learning-based gene prediction tool, to improve the annotation of oomycete genomes. Key activities include curating training datasets, running iterative model training sessions, fine-tuning hyperparameters, and validating the results against high-quality annotations.
- Training Dorado Correct, a machine learning-based sequence base caller, to fix errors and assemblies in Oxford Nanopore read signals on 100+ oomycete genomes.

Undergraduate Research, Biology

Sep. 2023 – Dec. 2023

- Led lab group in an 8-week experiment on nematode-vegetation relationships, focusing on population diversity and abundance in enriched vs. unenriched soil. Presented analysis and findings to the faculty instructor and authored a formal lab report. Utilized PCR and gel electrophoresis to identify nematode species; conducted microscopy for detailed analysis.

Chemistry Lab, General and Organic

Sep. 2023 – Jun. 2024

- Mastered lab tools, software (LoggerPro, Excel), and techniques (titration, use of probes, photometers) for chemical property analysis in General/Organic Chemistry coursework.
- Developed competency in organic chemistry methods, including synthesis, structure determination (IR, NMR spectroscopy, melting point determination), prediction of theoretical & experimental reactions.

LEADERSHIP

Club Secretary, Vice-President

Jun. 2024 – Present

Oregon State University Integrative Biology Club

Corvallis, OR

- Progressed along the leadership hierarchy within the **500+ member student-ran organization**, currently serving as the club's vice-president, previously served as the secretary.
- Honed skills such as project management, communication, volunteer/event coordination, membership expansion, and working in a matrixed environment of club officers, faculty, advisors and members.

Biology Learning Assistant (LA)

Sep. 2024 – Present

Oregon State University, College of Science

Corvallis, OR

- Facilitated lectures and content prep meetings to help instructors foster an active learning environment and assist students with content during lectures. Held weekly office hours for students to seek assistance on content in the BI 22X series.

Alumni Relations Chairman

Apr. 2025 – Feb. 2025

Phi Kappa Psi Fraternity, Oregon Beta Chapter

Corvallis, OR

- Responsible for creating newsletters to be sent out to alumni and members once per term (3 times per year), being the point of contact for over 1,000 alumni who wished to be kept up to date regarding fraternity events, and organizing events including: the flagship Annual Fall Alumni Golf Mixer (**Budget: \$1,500, attendees: 50+**) and our annual Founder's Day Banquet (**Budget: \$20,000, attendees 300+**).