

# Olivia Wu

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## Education

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**University of California Los Angeles**, Los Angeles, CA

Expected Graduation: June 2027

- B.S., Pre-Computational and Systems Biology

Current GPA: 4.0

**Lord Byng Secondary School**, Vancouver, BC, Canada

September 2018—June 2023

- Received the Rakesh Goel Math/Science award and the Service Award

GPA: 4.0

## Research Experience

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**Dr. Ruowang Li Lab**, Cedars-Sinai Medical Center, *paid*

Research Assistant (October 2024-Present)

- Lead an independent research project on bias mitigation in disease prediction models.
- Develop a model evaluation pipeline for seamless internal implementation and analysis of polygenic risk score (PRS) models, including PLINK C+T, PRSice, and LDpred2.

INSPIRE Research Intern (July 2024–September 2024)

- Integrated the AB-PRS method into an R package for accessibility and reproducibility.
- Applied AB-PRS to an internal Type 2 Diabetes dataset and developed a function for streamlined PRS method comparisons.

**Dr. Matteo Pellegrini Lab**, University of California, Los Angeles

Research Assistant (January 2024–December 2024)

- Analyzed the impact of genetic variants on dog breeds using k-mer and PRS analysis.
- Performed clustering analyses, including UMAP and dendrogram clustering, to identify genetic patterns.

## Honors and Awards

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Cedars-Sinai Research Intern Poster Symposium — Winner (August 2024)

College Board — AP International Diploma (July 2022)

Canadian Biology Olympiad — Silver Medal (May 2022)

British Columbia Chemistry Olympiad — Bronze Medal (May 2022)

## Volunteer Experience

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**Hunger Project at UCLA**

Director of Outreach (July 2024 - Present)

- Establish and maintain partnerships with service organizations and guest speakers.
- Coordinate events like care package drives and Farmers Market initiatives.

## Skills

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**Programming:** R, Python, C++, Java, Unix

**Soft Skills:** organization, problem-solving, initiative-taking