

## Albert W. Zhou

<https://www.albertwzhou.com/>

### EDUCATION

<b>Princeton University</b> , Princeton, NJ	September 2020 – May 2024
A.B. in Molecular Biology, <i>magna cum laude</i> ; Certificate in Music Performance (viola)	
<b>Awards:</b> Shapiro Prize for Academic Excellence, elected to Sigma Xi	
<b>Royal College of Music</b> , London, United Kingdom	September 2022 – December 2022
Study abroad program for music performance	
<b>South Pasadena High School</b> , South Pasadena, CA	August 2016 – June 2020
High school diploma	

### EMPLOYMENT AND RELATED EXPERIENCE

<b>Functional Genetic Technician, Parker Lab, California Institute of Technology</b>	June 2024 – present
<ul style="list-style-type: none"><li>• Develop CRISPR/Cas9-based gene editing tools in <i>Dalotia coriaria</i></li><li>• Manage <i>D. coriaria</i> and <i>Drosophila</i> cultures</li><li>• Create transgenic <i>D. coriaria</i> strains</li></ul>	
<b>Undergraduate Teaching Assistant, Department of Chemistry, Princeton University</b>	September 2023 – May 2024
<ul style="list-style-type: none"><li>• Assisted with weekly discussion sections</li><li>• Evaluated written assignments</li><li>• Contributed to weekly problem sets</li><li>• Led exam review sessions and resource hours</li></ul>	
<b>Shadowing, Pacific Coast Oral &amp; Maxillofacial Surgery, Pasadena, CA</b>	August 2023
<b>Shadowing, Paul H. Chu Internal Medicine, Los Angeles, CA</b>	July 2023 – August 2023
<b>Care Ambassador, Emergency Department, Princeton Medical Center, Plainsboro, NJ</b>	January 2023 – April 2023
<b>Shadowing, Emergency Department, LA County-USC Medical Center, Los Angeles, CA</b>	September 2022
<b>Shadowing, Pathology Department, Children's Hospital Los Angeles, Los Angeles, CA</b>	August 2022
<b>Shadowing, Emergency Department, Kaiser Permanente, Downey, CA</b>	July 2022 – August 2022
<b>Ophthalmic Technician Intern, Retina Eye Specialists, South Pasadena, CA</b>	May 2022 – September 2022
<ul style="list-style-type: none"><li>• Communicated with patients about appointments and prescriptions</li><li>• Assisted physician by working up patients and performing optical coherence tomography</li></ul>	
<b>Care Ambassador, Telemetry Unit, Princeton Medical Center, Plainsboro, NJ</b>	January 2022 – April 2022
<b>Public Services Captain &amp; Assistant, Mendel Music Library, Princeton University</b>	February 2021 – May 2024
<ul style="list-style-type: none"><li>• Managed circulation desk and answered reference questions</li><li>• Assisted with stacks maintenance, with a primary responsibility for shelving</li><li>• Uploaded, mapped, and published digitized music collections</li><li>• Trained new public services and digital collections student employees</li></ul>	

## PRESENTATIONS AND PUBLICATIONS

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Senior thesis: **The RNA-binding protein Zn72D contributes to *oskar* function and germline development**, advised by Elizabeth R. Gavis (2024)

Poster presentation: **The RNA-binding protein Zn72D in germline development**, MolBio Summer Research Program Poster Session (2023)

## RESEARCH EXPERIENCE

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**Undergraduate researcher, Gavis Lab, Princeton University, Princeton, NJ** February 2023 – May 2024

- Investigated the function of the *Zn72D* gene in *Drosophila* germline development
- Learned core molecular biology techniques
- Adapted to unexpected results through troubleshooting and designing new experiments
- Presented updates at lab meetings

**Laboratory assistant, Center for Craniofacial Molecular Biology, Univ. of So. Calif., CA** June 2021 – August 2021

## SERVICE

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**Viola Section Coach, Trenton Arts at Princeton, Princeton, NJ** September 2023 – May 2024

- Led sectionals and provided guidance for Trenton high school students passionate about music

**Violin Teacher, Trenton Arts at Princeton, Princeton, NJ** September 2021 – May 2024

- Taught free private lessons for Trenton high school students

## LEADERSHIP

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**Principal Violist, Princeton University Orchestra** September 2023 – May 2024

- Served as coordinator between conductor, other principal players, and section members

**President, Opus Chamber Music, Princeton University** May 2023 – May 2024

- Oversaw and delegated officer board responsibilities
- Coordinated and planned concerts, auditions, and day-to-day operations for a smooth member experience
- Served as liaison to university, music department, and other external parties
- Implemented member feedback mechanisms
- Fostered collaborations with peer groups at Columbia University and the University of Pennsylvania

**Publicity Chair, Opus Chamber Music, Princeton University** May 2022 – May 2023

## ACTIVITIES

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**Violist, Opus Chamber Music, Princeton, NJ** September 2021 – May 2024

**Violist, Princeton University Orchestra, Princeton, NJ** September 2020 – May 2024

## SKILLS

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**Laboratory:** DNA and RNA extraction, PCR, cloning, cDNA synthesis, CRISPR sgRNA and HDR template design and plasmid construction, *Drosophila* genetics and husbandry, *Drosophila* genomic and transcriptomic analysis, immunohistochemistry, confocal microscopy, microinjections, *Dalotia coriaria* husbandry

**Software:** SnapGene, ApE, FIJI/ImageJ, R/R Studio, Microsoft Office, Adobe Illustrator, Google Apps

**Language:** Spanish (5 years)