

Albert W. Zhou

EDUCATION

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

EMPLOYMENT AND RELATED EXPERIENCE

Functional Genetic Technician, Parker Lab, California Institute of Technology <ul style="list-style-type: none">Assist lab members with synthesis of CRISPR constructs in <i>Dalotia coriaria</i>	June 2024 – present
Public Services Captain & Assistant, Mendel Music Library, Princeton University <ul style="list-style-type: none">Managed circulation desk and answered reference questionsAssisted with stacks maintenance, with a primary responsibility for shelvingUploaded, mapped, and published digitized music collectionsTrained new public services and digital collections student employees	February 2021 – May 2024
Ophthalmic Technician Intern, Retina Eye Specialists, South Pasadena, CA <ul style="list-style-type: none">Communicated with patients about appointments and prescriptionsAssisted physician by working up patients and performing optical coherence tomography	June 2022 – September 2022

PRESENTATIONS AND PUBLICATIONS

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

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

Junior paper: **Investigating the Requirement of Zn72D in Embryogenesis and Germline Development** (2023)

RESEARCH EXPERIENCE

Undergraduate researcher, Gavis Lab, Princeton University, Princeton, NJ <ul style="list-style-type: none">Investigated the function of the <i>Zn72D</i> gene in <i>Drosophila</i> germline developmentLearned core molecular biology techniquesAdapted to unexpected results through troubleshooting and designing new experimentsPresented updates at lab meetings	February 2023 – May 2024
Laboratory assistant, Center for Craniofacial Molecular Biology, Univ. of So. Calif., CA	June 2021 – August 2021

SERVICE

Viola Section Coach, Trenton Arts at Princeton, Princeton, NJ <ul style="list-style-type: none">Led sectionals and provide guidance for Trenton high school students passionate about music	September 2023 – May 2024
Violin Teacher, Trenton Arts at Princeton, Princeton, NJ <ul style="list-style-type: none">Taught free private lessons for Trenton high school students	September 2021 – May 2024

LEADERSHIP

Principal Violist, Princeton University Orchestra	September 2023 – May 2024
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- Coordinated with conductor, other principal players, and section members

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

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

Violist, Opus Chamber Music, Princeton, NJ	September 2021 – May 2024
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Violist, Princeton University Orchestra, Princeton, NJ	September 2020 – May 2024
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SKILLS

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

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

Language: Spanish (5 years)