

Albert W. Zhou

EDUCATION

Princeton University, Princeton, NJ September 2020 – May 2024
A.B. in Molecular Biology; Certificate in Music Performance (viola)
Awards: Shapiro Prize for Academic Excellence

Royal College of Music, London, United Kingdom September 2022 – December 2022
Study abroad program for music performance

South Pasadena High School, South Pasadena, CA August 2016 – June 2020
High school diploma

EMPLOYMENT AND RELATED EXPERIENCE

Functional Genetic Technician, Parker Lab, California Institute of Technology June 2024 – present

- Assist lab members with synthesis of CRISPR constructs in *Dalotia coriaria*

Public Services Captain & Assistant, Mendel Music Library, Princeton University February 2021 – May 2024

- Managed circulation desk and answered reference questions
- Assisted with stacks maintenance, with a primary responsibility for shelving
- Uploaded, mapped, and published digitized music collections
- Trained new public services and digital collections student employees

Ophthalmic Technician, Retina Eye Specialists, South Pasadena, CA June 2022 – September 2022

- Communicated with patients about appointments and prescriptions
- Assisted physician by working up patients and performing optical coherence tomography

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 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

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

- Led sectionals and provide 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

Principal Violist, Princeton University Orchestra

September 2023 – May 2024

- Coordinated with 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

Publicity Chair, Opus Chamber Music, Princeton University

May 2022 – May 2023

ACTIVITIES

Violist, Opus Chamber Music, Princeton, NJ

September 2021 – May 2024

Violist, Princeton University Orchestra, Princeton, NJ

September 2020 – May 2024

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

Language: Spanish (5 years)