

# Kai Cao

Irvine, CA | kcao10@uci.edu | kaicao.me

## EDUCATION

### University of California, Irvine

Bachelor of Science, School of Biological Science

GPA: 3.94/4.0

Irvine, California  
Sep 2022 – Present

### Deans Honor List

Relevant Coursework: Neurobiology, Neurophysiology, Human Physiology, Molecular Biology, Biochemistry, Evolutionary Biology, Organic Chemistry, Public health

### University of California, Berkeley

Summer School, College of Chemistry

GPA: 4.0/4.0

Berkeley, California  
Jun 2023 – Aug 2023

- Skilled in molecular orbital theory for predicting reactions with a focus on stereochemistry and regiochemistry.
- Experienced in practical experiments and coursework, including bond-line analysis, solubility, acid/base concepts, chromatography techniques, and NMR spectroscopy. Demonstrates comprehensive knowledge in chemical analysis and reaction mechanisms.

### Jinhua Foreign Language School

High School

GPA: 100/100

Graduated with honors

Jinhua, China  
Sep 2019 – Jun 2022

## EXPERIENCE

### Undergraduate Student

Igarashi Lab

- Currently engaged in research at the Igarashi Lab, focusing on Alzheimer's disease and memory formation within the entorhinal-hippocampal brain circuits.
- Perform a wide range of experiments involving behavioral training.
- Proficiently conduct mice tissue analysis, specializing in brain tissue perfusion, sectioning, and staining techniques. Capable of analyzing data with precision and accuracy.
- Wrote grant applications and awarded funding for research through the Undergraduate Research Opportunities Program (UROP)

Irvine, California  
Aug 2023 – Present

### College Volunteer

UCI Health

- Collaborate with the Patient Experience Department at UCI Medical Center to gain insights into various healthcare specialties while engaging with both patients and staff.
- Actively participate in educational sessions and training, continuously expanding my skills and knowledge in healthcare and community service.
- Cultivate personal and professional growth, fostering a deep passion for community service through this program.

Irvine, California  
Aug 2023 – Present

### Learning Assistant

General Chemistry

- Assisted over 150 students in enhancing their comprehension of the coursework through effective facilitation of communication with the professor, as well as identifying and addressing areas requiring additional support.
- Conducted thorough review sessions to enhance students' comprehension of course material, facilitating a deeper understanding of key concepts and effectively preparing them for exams.

Irvine, California  
Mar 2023 - Jun 2023

### Group Leader

Studies on the Pathology of Alzheimer's Disease

- Conducted a comprehensive pathology analysis and designed an experiment focused on Alzheimer's disease.
- Demonstrated a strong passion for critical thinking and showcased the ability to analyze complex data.

Shanghai, China  
Mar 2021 - Aug 2021

## SKILLS & PERSONAL

**Technical:** *Suturing, Brain tissue Perfusion and Sectioning, Rodent behavior training, Immunostaining*

Microsoft Office, Swift, Python, Java

**Languages:** English (fluent), Chinese (native)