# Kai Cao

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## EDUCATION

**University of California, Irvine** — Irvine, California
*Bachelor of Science, School of Biological Science* — *Sep 2022 – Jun 2026*
GPA: 3.9/4.0
**Deans Honor List**
Relevant Coursework: Cell biology, Biochemistry, Genetics, Patterns of diversity, Evolutionary biology, Distribution and interaction of organisms, General Chemistry, Organic Chemistry, Public health

**University of California, Berkeley** — Berkeley, California
*Summer School, College of Chemistry* — *Jun 2023 – Aug 2023*
GPA: 4.0/4.0
Able to apply Coulomb's Law and qualitatively apply the concept of resonance to reactivity, to use the concepts of molecular orbital theory to understand and predict the way certain reactions occur with respect to their stereochemistry and regiochemistry, and to understand the three-dimensional reality of molecules and how to envision their single bond rotation.
Engaged in practical experiments and coursework, including bond-line analysis, solubility, acid/base concepts, chromatography techniques, and NMR spectroscopy, gaining comprehensive knowledge in chemical analysis and reaction mechanisms.

**Johns Hopkins University** — Baltimore, Maryland
*Summer School, Krieger School of Arts & Sciences* — *Jul 2021 – Aug 2021*
GPA: 3.85/4.0
Attained outstanding grades and completed a summer school program with great success. Highlighting strong academic capabilities and a dedication to learning.
Participated in a debate competition focused on brain science, engaging in rigorous intellectual discussions and showcasing analytical thinking and communication skills.

**Jinhua Foreign Language School** — Jinhua, China
*High School* — *Sep 2019 – Jun 2022*
GPA: 100/100; Top 10% of the grade
Graduated with honors.
Achieving a high GPA and demonstrating exceptional academic performance.

## EXPERIENCE

**Undergraduate Student** — Irvine, California
Igarashi Lab — *Aug 2023 – Present*
- 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 and olfactory training.
- Strive to uncover critical insights into the mechanisms underlying memory circuit dysfunction in Alzheimer's disease and explore potential avenues for restoration.

**College Volunteer** — Irvine, California
UCI Health — *Aug 2023 – Present*
- 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.

**Learning Assistant** Irvine, California
Chem 1B General Chemistry *Mar 2023 - Jun 2023*

- Assisted over 50 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.

**Build Personal Blog *(kaicao.ink)*** *May 2022 – Present*

- Created and managed a personal blog dedicated to computer science, actively engaging with audiences by providing valuable insights, resources, and provide supports to those in need.

**Group Leader** Shanghai, China
Studies on the Pathology of Alzheimer's' Disease *Mar 2021 - Aug 2021*

- 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.

## SKILLS & PERSONAL

***Technical:*** Microsoft Office(Intermediate), Swift (Basic), Python(Basic) Java(Basic)
***Languages***: English (fluent), Chinese (native)
***Interests***: Cooking, Hiking, Traveling