

Jake Barer
jakebarer@berkeley.edu

Schools Attended:

University of California, Berkeley: B.S. Chemistry/B.A. Data Science (expected Spring 2025)

Languages:

- Python, R, SQL, Java, HTML, CSS

Work Experience:

Undergraduate Research Assistant at Baranger Group, UC Berkeley (Berkeley, CA): (9/2023-present)

- Designed interview protocol and coded interview responses regarding sense of belonging in general chemistry
- Analyzed large sets of data to determine persistence and retention in chemistry and related majors
- Designed software to process interview transcripts for coding purposes and to calculate intercoder reliability

Undergraduate Statistics Tutor at UC Berkeley Statistics Department (Berkeley, CA): (1/2023-present)

- Collaborated with professors in regards to improving an 800 person undergraduate statistics course
- Held office hours for students to ask questions about the course
- Aided in lecture by being available to answer student questions during class time
- Monitored online forum and created video content as extra resources for the course

Private Tutor (Remote): (8/2022-12/2022):

- Worked with Bay Area community college students to deepen understanding of math and chemistry topics
- Reviewed previous exams in order to point out gaps in understanding and to provide advice to fill those gaps
- Administered general study advice and tactics to those who desired to improve their study skills and habits

Martial Arts Instructor at Martial Arts America (San Ramon, CA): (12/2016-9/2021)

- Provided clear, yet challenging martial arts instruction to classes of 5 to 30 children
- Communicated with parents of students in regards to what needed to be further improved, whether it be in regards to martial arts skills or behavior
- Provided junior instructors with opportunities to learn how to be effective instructors
- Worked with other instructors on how to make material more engaging for students

Extracurriculars:

Executive and Web Designer for Smash At Berkeley: (8/2022-present)

- Collaborated with other executives to organize fundraising events
- Advertised and publicized club events to students and non-students through social media averaging over 40 weekly attendees
- Communicated with other similar organizations at other universities for collaborative cross-university events across the Bay Area ranging from 100 to 200 attendees
- Designed, implemented and updated a website from scratch for the organization using HTML, CSS, and Javascript

4th Degree Black Belt in Taekwondo: (11/2008-present)

- Trained intensively and have thoroughly learned Taekwondo, among other martial arts
- Competed and judged in multiple martial arts tournaments

