

Christian Umemura

Irvine, CA | christianumemura@gmail.com | (310) 940-8299

EDUCATION

B.S., Biochemistry and Molecular Biology GPA: 3.78

September 2019 - June 2023

University of California, Irvine

VOLUNTEERING

Tomo no Kai, Japanese/Japanese-American Cultural Club (Irvine, CA)

President

July 2022 - June 2023

- Coordinated weekly meetings for 300 club members to promote Japanese and Japanese-American Culture and foster bonds through events, such as bowling, karaoke, and mini golf
- Advised and mentored 12 board members on various large-scale events with over 150 attendees, such as Cultural Night

Director of Public Relations

July 2020 - June 2021

- Facilitated an empowering experience for 14 first-year undergraduates through club leadership and college mentorship
- Organized the first mug fundraiser with a local Japanese American Citizens League (JACL) chapter and raised \$339.56
- Collaborated with a JACL chapter and operated our first Voter's Registration Webinar, reached 50 students

WORK EXPERIENCE

UCI Department of Biological Chemistry, Yokomori Lab (Irvine, CA)

September 2021 - June 2023

Undergraduate Researcher

- Investigated a novel cancer treatment through targeting metabolic pathways
- Validated candidate genes involved in metabolic DNA damage response by having cells undergo gene knockout through gRNA infection and exploring if it increases cell survival under metabolic stress
- Received Undergraduate Research Opportunities Program (UROP) fellowship and achieved \$400 of funding for supplies
- Performed and authored figures for multiple cell survival assays
- Attained Excellence in Research, competed as a finalist among 100 students, and received the Robert Ernst award and \$200

UCI Chemistry Stockroom (Irvine, CA)

August 2021 - June 2023

Stockroom Assistant

- Handled preparation of chemicals and equipment for higher level chemistry classes
- Ameliorated student injuries and chemical spills on site
- Documented and organized chemical inventory quarterly
- Mentored new employees on lab safety, chemical preparation, and general operations within the stockroom

Terasaki Institute for Biomedical Innovation (Los Angeles, CA)

June 2022 - August 2022

Summer Intern

- Characterized the rheology of an innovative combination of hydrogel biomaterials involving GelMA (gelatin methacryloyl) and silk
- Researched potential target genes for prostate cancer treatment
- Contributed over 20 figures for 3 separate bioengineering projects
- Authored the hypoxia section as the 10th author of the review paper, *Engineered Vasculatures for Cancer Research and Regenerative Medicine*

SKILLS

- Microsoft Office, Google Drive, Adaptability, Attention to Detail, Decision-making, Open-mindedness, Patience, Problem-solving, Critical Thinking, Public Speaking, Teamwork,