

Sandra Nguyen

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EDUCATION

California State University, Fullerton

Expected: May 2026

Bachelor of Science in Biological Science

Concentration: Cellular and Developmental Biology

RELEVANT COURSEWORK

- Cell and Molecular Biology Skills Laboratory
- General Microbiology
- Stem Cell Biology
- Cellular Neurobiology
- Genetics
- Organic Chemistry Laboratory

LABORATORY EXPERIENCE

Department of Biological Science, California State University, Fullerton

Fullerton, CA

Dr. Nilay Patel's Research Group

Spring 2024-Present

Research Assistant

- Investigated the regulation of cell proliferation through the transcriptional coactivator β -catenin and phosphorylation of GSK3
- Researched the effects of drugs, like Niclosamide, on the regulatory Wnt pathway, specifically targeting GSK3, for β -catenin degradation
- Taught 5 lab members techniques such as cell culturing, western blotting, BCA protein assay, CyQuant, and PCR.

OTHER WORK EXPERIENCE

Supplemental Instruction, California State University, Fullerton

Fullerton, CA

Physics Supplemental Instructor

August 2023-May 2024

- Instructed supplemental Physics classes focusing on mechanics, thermodynamics, electricity, magnetism, waves, and optics to improving comprehension of physics concepts.
- Developed discussions and interactive activities focusing on course content taught in lecture for a diverse group of students of all ages.
- Created custom sessions tailored to the struggles of students and formed a comfortable environment for mental and social growth.

VOLUNTEER EXPERIENCE

Flying Samaritans, California State University, Fullerton

Fullerton, CA

Medical Volunteer

January 2023-Present

- Participate in monthly clinic trips to El Hongo, Mexico to provide medical services to underrepresented communities.
- Speak in Spanish and English to aid communication between patients, doctors, and nurses
- Triage with other healthcare professionals and perform basic medical procedures

LEADERSHIP EXPERIENCE

- Beta Psi Omega Professional Biology Fraternity, **Secretary** August 2025-Present

SKILLS

- **Scientific:** Cell culturing, Western blotting, BCA protein assay, CyQuant, and PCR.
- **Technical:** Proficient in Microsoft Office and beginner in SPSS, Python, and R.
- **Language:** Fluent in Spanish