

Yuuka Amy Tanaka

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EDUCATION

University of California, Berkeley

Bachelor of Science in Environmental Engineering Science

Berkeley, CA

August 2025 – May 2029

Mayfield Senior School

Valedictorian - 3.99 UW/4.44 W GPA

Pasadena, CA

August 2021 – June 2025

EXPERIENCE

Structural Engineering Intern

IMEG

June 2024 – June 2024

Pasadena, CA

- Shadowed structural engineers and learned about structural details and plans of buildings by reading past seismic compliance project reports

Architectural Engineering Intern

Adept

July 2024 – August 2024

Pasadena, CA

- Shadowed architects, self-learned Excel to complete assigned tasks, and learned 3D softwares such as SketchUp
- Used architectural ruler to find measurements of architectural drawings

Team Lead

Math Modeling

September 2022 – June 2025

Pasadena, CA

- Worked in teams to create mathematical models and solutions for real-world problems
- Wrote reports in LaTeX and participated in HiMCM and M3 competitions

Construction Worker

Habitat for Humanity

June 2024 – Present

Los Angeles, CA

- Built gutter downspouts, painted and caulked walls, scraped floors, helped carry construction materials, and dug up dirt for pipes
- Learned about process of building houses through hands-on experience

Crew Member

Baskin-Robbins

June 2023 – September 2023

Pasadena, CA

- Scooped ice-cream, performed customer service, and cleaned store
- Developed valuable soft skills such as communication and working quickly under stress during busy hours

PROJECTS

Solar Powered Energy Efficient Charger | *Theta Tau Engineering Fraternity* September 2025 – November 2025

- Worked in team to build two-axis solar tracking system that rotates solar panel to maximize power output by following sunlight
- Assisted in programming Arduino to control servos and adjust panel position based on voltage and current sensor readings
- Gained exposure to soldering and CADding

Environmental Challenge | *The Sustainability Club*

August 2021 – June 2025

- Composed food scraps during lunch
- Organized 3 day environmental challenge (day #1 - water preservation, day #2 - energy conservation, and day #3 - sustainability) where I taught students sustainable habits through infographics and students who practiced the habits were awarded service hours

Environmental Justice | *Stanford University's Climate Leaders Fellowship*

September 2024 – December 2024

- Designed and implemented project to help unhoused in downtown LA during harsh winter conditions
- Spoke to student body about negative effects of climate change on unhoused during community announcements
- Conducted fundraiser and sold hot cocoa for \$2; raised \$115+ and used money to purchase and donate 10 blankets, 30 socks, and 4 hats and gloves to Urban Rescue Mission

SKILLS

Technical Skills: Calculus

Tools: Excel, LaTeX, Google Sheets, SketchUp

Languages: English, Japanese, Spanish