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Julianna Porraz

Objective

An environmental engineering student at University of California, Merced with 3+ years of experience in community involvement and problem-solving activities. Pursuing opportunities to challenge my leadership expertise, promote my knowledge in environmental systems, as well as be apart of a profession that prioritizes finding solutions to poor air quality.

Education

Bachelor of Science in Environmental Engineering

May 2021

University of California, Merced, CA

Professional Experience

California Alliance for Minority Participation Scholar

June 2020- Present

Summer Undergraduate Research Institute, UC Merced

- Statistical analysis of pollutant concentrations (ground- level ozone (O₃) and particulate matter 2.5 (PM_{2.5}) data) amidst the COVID-19 pandemic with R Studio
- Participates in biweekly lab group meetings, research presentations and journal clubs, and collaborating with other researchers

Undergraduate Researcher

February 2019- Present

Naughton Lab, Civil and Environmental Engineering, UC Merced

- Researching engineering and policy solutions to prevent Valley fever
- Experience conducting literature review, interviews, and writing for peer-reviewed publications
- Designed brochures and presentation to spread awareness of Valley fever to the public
- Co-lead Particulate Matter sensor building activity for Society of Women Engineers event (March 7, 2020)

Team Get S.E.T

August- December 2016

Engineering Service Learning, UC Merced

- Utilized Microsoft Excel to modify the accounting strategy for order processing
- Redesigned the brainstorm bridge prototype of the plate tectonics lab
- Created an educational plan and project model in a team setting for elementary students

Leadership Experience

Executive Staff Member

October 2019 - Present

ASUCM, Commission of Sustainability

- Maintain contact and communication with all members and board of executives
- Demonstrates a proactive approach to problem-solving with strong decision-making skills

- Collaborate with the board of executives and discuss solutions to current sustainability concerns on campus

Internal Communications Strategist

August 2019- Present

Natural Resources and Ecology Association, UC Merced

- Founded this student organization with three other members
- Maintain contact and communication with all members and board of executives
- Act as the liaison between the executive board and the general members

Praise Team Leader

August 2017- January 2020

Chi Alpha, Merced

- Monitors growth and unity of worship team
- Organizes music sheets and schedules meeting location and set-up
- Effectively troubleshoots any technical issues during events
- Delegates equipment setup and tuning responsibilities

Engineers Without Borders

December 2017- September 2018

UC Merced

- Modified prototypes for water filters by reconstructing internal filter design
- Conducted price comparisons to minimize expense costs
- Analyzed and modeled the use of activated carbon in filters

International Experience

Volunteer – Mission Trip

May 2017

Chi Alpha Korea – Seoul, South Korea

- Gained understanding of cultural norms
- Served in a student lead team role, empowering other individuals in diverse environment and ensured that the goals and values of the mission were fulfilled
- Developed additional leadership and conflict resolution skills while working with group of people in an unfamiliar and distinctive culture

Conference Presentations and Posters

Porraz, J., Naughton, C.C. (2020). *Valley Fever and California Earthquakes: A Recipe for Disaster?* Poster Presentation, Research Week. University of California, Merced, Merced, CA. March 4, 2020.

Technical Skills

- Microsoft Office Suite • Canva • MATLAB • R Studio • Python

Interests

- Learning German • Community Involvement • Chess • Reading