

# Ysabel Yu

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## PROJECT & WORK EXPERIENCE

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### Kapawi Ecolodge Boat Design

Sept. 2022 - May 2023

University of San Diego | San Diego, CA

- Accommodated needs and preferences for the Kapawi Ecolodge and community in Ecuador to aid in ecotourism practices and receive feedback on ideas and designs
- Analyzed various boat features and subsystems including hull shape, motor interface, and seating
- Created boat prototypes using fiberglass sheets and resin with developed styrofoam boat molds

### Re:Emergence Burning Man Sculpture

June 2022 - Aug. 2022

ArtBuilds & University of San Diego | San Diego, CA

- Engineered a 20 by 60 foot, parabolic sculpture to present at Burning Man 2022 by fabricating wood, steel, and electronic pieces to achieve maximum stability and construction efficiency
- Performed stress tests to predict the stationary and dynamic loading capacity and to measure structural integrity
- Developed both hard and soft skills from practiced machining and communications through fostered relationships between younger, prospective engineers

### Solar Pool Heating at USD

Jan. 2022 - May. 2022

University of San Diego | San Diego, CA

- Compared photovoltaic, hybrid, and thermal panels in regards to technical, environmental, and economic feasibility
- Considered environmental and economic impacts of the natural gas boiler system currently in place at USD's pool
- Explored methods to maximize energy and financial outputs generated from a solar heated pool

### Food Accessibility in Los Angeles - ArcGIS Thematic Map

Oct. 2021 - Dec. 2021

University of San Diego | San Diego, CA

- Examined demographic and infrastructural data, specifically race, income, and public transportation, in Los Angeles
- Explored the relationship between food inaccessibility and minority and low income populations
- Handled data to create a thematic map using ArcGIS to highlight possible infrastructural problems in Los Angeles

## EDUCATION

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University of Washington | PhD Student, Civil & Environmental Engineering

Sept. 2023 - Present

University of San Diego | Dual Degree, Bachelor of Science and Bachelor of Arts

Sept. 2019 - May 2023

Integrated Engineering Major, Sustainability Concentration. GPA: 3.90/4.00, Summa Cum Laude

#### Key Accomplishments and Activities:

- Tau Beta Pi, Member Fall 2022 - Present
- Society of Women Engineers, Section President Fall 2022 - Spring 2023
- Club Cross Country, President Fall 2021 - Spring 2023
- Professor's Assistant for User Centered Design and Thermal Sciences Fall 2021 - Spring 2023

## RELEVANT COURSEWORK

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Senior Design I/II | Cities & Urban Design | Water Remediation | Photovoltaic Energy | Experimental Engineering | Materials

## SKILLS

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Instrumentation/Data Acquisition | Machining | Python | Microsoft | MATLAB | Solidworks | Multisim | Spanish | ArcGIS