

# Katelyn Wong

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kaiyuncorner.com/

## EDUCATION

**M.S. in Data Science**  
UC San Diego, 2025 – 2027

**B.S. in Math & Economics**  
UC San Diego, 2021 – 2025  
GPA: 3.99/4.0  
*summa cum laude*

**Minor in Data Science**  
UC San Diego, 2021 – 2025

## SKILLS

**Programming**  
Python, R, MATLAB, Stata

**Data Analysis & Database Management**  
Tableau, Excel, SQL

**Web & Front-End**  
JavaScript, HTML, CSS

**Academic & Professional**  
Numerical Optimization  
Probabilistic Modeling & ML  
Econometrics & Statistics  
Quantitative Analysis  
Financial Management  
Project management  
UI/UX

**Design & Multimedia**  
Canva, Final Cut Pro,  
Logic Pro, Ableton

## PROFESSIONAL EXPERIENCE

**Data Science Research Assistant** **Nov 2024 – Present**  
Renewable Energy and Advanced Mathematics Lab

- Analyze electricity markets to effectively integrate renewable energy in a cost efficient way for consumers
- Collaborate with researchers to optimize power distribution systems, grid reliability, and energy efficiency
- Develop and solve rate design optimization models using matrix-based regression and predictive modeling

**Mathematics Department Instructional Assistant** **Sept 2024 – Present**  
University of California, San Diego

- Correspond weekly with professors/teaching assistants to review MATLAB programming assignments
- Provide substantial constructive feedback to students for areas of improvement in course material
- Evaluate exams and coursework to accurately maintain confidential records of student grades

**Project Management and Finance Intern** **Aug 2022 – Aug 2023**  
San Diego Association of Governments

- Reviewed metropolitan planning invoices and processed consultant financial requests of up to \$10 million
- Collaborated with 2 other office staff to perform financial data analysis and reconcile government budgets
- Facilitated streamlined communication between project managers and over 20 external companies

## PROJECTS AND RESEARCH

**Analyzing Forest Fire Severity in California**

- Analyzed U.S. wildfire and weather data to identify key meteorological drivers of severity
- Built predictive models (logistic regression, density analysis, random forest) to quantify weather–wildfire relationships for risk assessment

**Predicting Fat Content in Recipes**

- Analyzed Food.com recipe and user interaction data to study how nutritional attributes, especially fat content, influence ratings and engagement
- Built and evaluated regression models (KNN, Linear, Decision Tree) to predict total fat content from recipe features

**Exploring Global Earthquakes**

- Developed an interactive web app with Svelte and JavaScript to visualize global earthquake data and seismic patterns
- Integrated real-time datasets with responsive UI, featuring interactive scrollytelling animations and dynamic geographic map filtering