Katelyn Wong

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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