

# Mario Tapia-Pacheco

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## EXPERIENCE

**Graduate-Level Evaluation Intern - UCSD Center for Community Health** | Nov 2025 - Present

- Clean and prepare program datasets to ensure accuracy and readiness for analysis.
  - Conduct exploratory data analysis and generate visualizations to identify trends, patterns, and actionable insights.
  - Present data findings to team members, translating complex analyses into clear, actionable recommendations.
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## EDUCATION

**University of California, San Diego**

Master of Science in Data Science | Sep 2025 - June 2027 (Expected)

**University of California, Santa Barbara**

Bachelor of Science in Statistics and Data Science | Sep 2024 - June 2024

Overall GPA: 3.59/4.0 | Major GPA: 3.8/4.0

**Relevant Coursework:** Machine Learning, Regression Analysis, Probability and Statistics, Data Analysis and Visualization, Multivariable Calculus, Linear Algebra, Bayesian Inference, Design of Experiments

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## RESEARCH

**CHIRPS 3.0 Evaluation - UCSB, Climate Hazards Center** | Jan 2024 – Aug 2024

- Collaborated with students to conduct research evaluating the performance of four versions of the CHIRPS 3.0 daily precipitation dataset.
- Researched and used several statistical and machine learning methods including causality tests, generative adversarial networks (GAN), and time series analysis for data validation.
- Managed project timelines and resources, ensuring on-time, within-budget deliveries; maintained high standards of quality in all tasks and outputs.

#### **Satellite Imagery Remote Sensing Research** | Jan 2024 - June 2024

- Collaborated with a statistics professor on convolutional neural networks (CNN) research for detecting low vegetation in satellite imagery.
  - Trained a CNN on real and simulated image data for object detection using PyTorch.
  - Explored different combinations of loss functions, training data, and CNN architecture for optimal performance.
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## **PROJECTS**

#### **Recipe Recommendation System – *Wordly Bites*** | Jan 2024 – May 2024

- Collaborated with peers to build a recipe recommendation system that analyzes user-uploaded images to suggest culturally diverse meals.
- Trained a CNN with multi-label image classification using TensorFlow and transfer learning (ResNet50).

#### **Predictive Modeling in Rainbow Six Siege** | Dec 2023

- Developed binary classification models to predict match outcomes using in-game performance data.
  - Compared logistic regression, random forest, and SVM models using Scikit-learn and Pandas.
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## **EXTRACURRICULAR ACTIVITIES**

#### **Board Treasurer - Santa Barbara Student Housing Cooperative** | Jan 2024 – June 2024

- Managed multi-million dollar finances, ensuring legal compliance and fiscal responsibility and advised the board on financial strategies, including budget planning and bank selection.
- Forecasted long-term financial trends, guiding the cooperative towards sustainable growth and improved student housing affordability.

#### **House President - Santa Barbara Student Housing Cooperative | June 2023 – June 2024**

- Led bi-weekly house meetings on budgets, events, and equity, ensuring member cooperation.
  - Implemented creative solutions for social events, balancing community-building with budget constraints to boost resident satisfaction.
  - Streamlined communication channels between management and residents, resulting in faster issue resolution and improved living conditions.
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## **SKILLS**

- **Programming:** Python, R, SQL
  - **Libraries/Frameworks:** Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Tidyverse
  - **Tools:** SAS, Power BI, Tableau, Excel, Git/GitHub
  - **Languages:** Spanish (fluent)
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## **PROFESSIONAL EXPERIENCE**

#### **Robotics/Programming Tutor – Magikid Robotics Lab San Diego | Sep 2025 – Present**

- Teach robotics and programming concepts to students using hands-on projects in Python, LEGO, and VEX.
  - Guide students through building and coding robots while fostering problem-solving and STEM skills.
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## **ADDITIONAL WORK EXPERIENCE**

Held various customer service, leadership, and hands-on roles, demonstrating a strong work ethic, time management, and collaboration skills.

- **After School Program Mentor – CWC LA** | Aug 2024 – Aug 2025  
Provide academic support, organize, and lead enrichment activities for students.
  - **Produce Clerk - Erewhon** | March 2025 - September 2025  
Stocked and organized produce while helping customers with food selection.
  - **Lumber Sales Associate – The Home Depot** | March 2024 – May 2024  
Assisted customers with product selection and inventory management.
  - **Delivery Driver – Uber Eats** | June 2023 – Sep 2023  
Delivered orders efficiently and provided excellent customer service.
  - **Seasonal Shift Leader – SomiSomi** | June 2021 – Jan 2023  
Led a team of employees, ensuring smooth operations and customer satisfaction.
  - **Groundsman – Wilshire Country Club** | Sep 2018 – April 2021  
Collaborated with a team to maintain high-quality golf course grounds.
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## HONORS AND AWARDS

- **Dean's Honors (L&S) - UCSB**: Spring 2023, Fall 2023, Winter 2024, Spring 2024