

Jacob Bustamante

Statistical Modeling | Machine Learning | Applied Mathematics | Data Analysis & Modeling

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

Irvine, CA

Master of Science, Statistics | *September 2026 – June 2028*

- Focus: Machine Learning, Statistical Modeling and Computational Methods

Bachelor of Science, Applied & Computational Mathematics

June 2026

- Data Science Concentration | Statistics Minor
- Focus: Numerical Analysis, Linear Algebra, and Programming for Data Science (Python and R)
- Honors: Dean's List (6x), Academic Unit Award, Commissioner's Honor Roll, Big West All Academic (5x)

PROJECT EXPERIENCE

OC HEALTH CARE AGENCY

Irvine, CA

Health Disaster Preparedness Intern (12 hrs/week) | *June 2026 – September 2026*

- Conducted research on emergency preparedness and implementation of the Standardized Emergency Management System
- Created and maintained Excel spreadsheets, forms, and electronic databases to organize operational information and improve team workflows
- Analyzed and organized preparedness data to support planning, documentation, and cross-functional public health activities

UC IRVINE RESEARCH

Irvine, CA

Nicholas Lab Data Analyst Internship (10 hrs/week)

September 2024 - June 2025

- Applied supervised machine learning and image analysis techniques in large-scale imaging mass cytometry datasets for Type 2 Diabetes research, supporting the quantitative analysis of the complex biomedical data
- Developed automated image processing and classification workflows integrating CellProfiler and Ilastik, reducing processing time for our large-scale data by 88% while maintaining comparable quality in throughput
- Documented our workflows, methodology, and results in support of reproducibility and collaboration among current and future research teams

PROFESSIONAL EXPERIENCE

AR ACADEMICS

Irvine, CA

Academic Tutoring Specialist (20 hrs/week)

April 2026 – Present

- Deliver individualized mathematics and standardized-test instruction, adapting complex quantitative concepts to students' needs and levels of understanding
- Develop targeted lesson plans and analyze student performance to identify weaknesses, reinforce mathematical reasoning, and monitor progress

UC IRVINE

Irvine, CA

Associated Students of UC Irvine, Physical Sciences Senator (6 hrs/week)

September 2024 – May 2025

- Represented 2,500+ students in the School of Physical Sciences, advocating for equitable resources and hosting office hours and on-campus events to address student concerns
- Tracked and analyzed budget allocations and documented funding outcomes and decisions to ensure transparency and accountability while providing data-driven recommendations to leadership

LEADERSHIP EXPERIENCE

UC Irvine Athletics, Track and Field Student Athlete (19 hrs/week)

August 2021 - May 2026

- Balanced commitment to the DI athletic program with a rigorous quantitative coursework load
- Mentored incoming athletes, contributing to the team cohesion and retention

SKILLS

Statistical & Analytical: Statistical Modeling, Statistical Inference, Exploratory Data Analysis, Data Cleaning

Programming & Tools: R, Python (Pandas, NumPy, Scikit-learn), MATLAB, Excel, Microsoft Office

Mathematics & Machine Learning: Supervised Learning, Predictive Modeling, Numerical Optimization, Linear Algebra, Statistical Inference, Scientific Computing

Professional: Research Documentation, Quantitative Problem Solving, Cross-Functional Collaboration, Technical Communication