

Daniel Ramos

Oxnard, CA | andresdan23@gmail.com | [andresdan805.github.io](https://github.com/andresdan805)

EDUCATION

University of California, Santa Barbara

March 2026

Bachelor of Science in Statistics and Data Science

Bachelor of Arts in Economics and Accounting

Carlos III University of Madrid (Exchange Student)

Fall 2024

Relevant Coursework: Mathematical Statistics, Stochastic Processes, Financial Risk Modeling, Interest Theory, Financial Statement Analysis, Intermediate Accounting, Individual Income Tax, Writing for Accountants, Business Law and Ethics

EXPERIENCE

Academic Affairs Information Technology, Classroom Services, UC Santa Barbara

May 2023 – March 2026

Audiovisual Technician

- Serve as the first point of contact for classroom technology issues, providing rapid in-person and remote support
- Log, categorize, and escalate technical incidents using ServiceNow with detailed troubleshooting records
- Execute audio/visual setups for university and third-party events such as the annual Crypto Conference
- Deliver on-site support during events, diagnosing and resolving event disruptions under time constraints

ACADEMIC PROJECTS

Undergraduate Researcher, University of California, Santa Barbara

January – June 2025

PhD Candidate Marcos Reyes, Department of Mathematics

“Data-Driven Patterns in Elliptic Curves”

- Collaborated with a PhD mathematician and a peer to translate elliptic curve theory into Python-based models
- Queried and analyzed 1 million elliptic curves from the LMFDB using PostgreSQL and pandas, to study rank, torsion, and discriminant relationships
- Built Random Forest and Logistic Regression classifiers to predict curve rank, achieving $\approx 56\%$ accuracy
- Designed an algorithm estimating upper bounds on curves rank via primes of bad reduction, supporting exploratory work related to the BSD Conjecture

Portfolio Management Report – UCSB PSTAT 177: Financial Market Risk and Modeling

April – June 2025

- Evaluated outcomes from pension fund simulations using the Actuaries’ Interest Rate Generator (AIRG) in Excel
- Analyzed the impact of shifting corporate vs. government bond allocations on insolvency risk, volatility, and long-term surplus across 1,000 simulated 30-year market scenarios
- Interpreted simulation results to recommend a risk-averse allocation that minimized insolvency risk

Walmart Financial Statement Analysis – UCSB Econ 118: Financial Statement Analysis

January – March 2025

- Conducted a multi-year financial analysis of Walmart Inc. using the three core financial statements
- Analyzed key profitability, efficiency, and solvency ratios to evaluate performance relative to industry benchmarks
- Compiled findings into a final report summarizing financial health and key performance drivers

Individual Income Tax Filing Project – UCSB ECON 138A: Income Taxation

October – December 2025

- Prepared filing with multiple W-2s, self-employment income, Schedule SE, and investment income schedules
- Applied itemized deductions including mortgage interest, property tax, and SALT limitations to reduce tax liability

ACTIVITIES & INVOLVEMENT

Pacific Alliance for Low-Income Students in Data Science (PALiSaDS), UC Santa Barbara

September 2023 – March 2026

- Selected for a competitive cohort program providing mentorship, technical workshops, and professional development in statistics and data science
- Built relationships with faculty and graduate student mentors for academic guidance and career development

SKILLS

Data Cleaning & Visualization, Statistical Modeling, Client-Facing Support, Analytical Reporting, Bilingual (English & Spanish)

Technical Tools: Microsoft Excel (VLOOKUP, PivotTables); Python (pandas, NumPy, matplotlib); R (tidyverse, ggplot2)