

# Mario Arce Acosta (CV)

Davis, CA | maarceacosta@ucdavis.edu | Professional website | LinkedIn |  
Upwork | Github

## Education

<b>University of California, Davis</b> , MS in Statistics	Sep 2025 – Present
<b>University of California, Riverside</b> , BS in Applied Mathematics/Economics	Jan 2023 – Jun 2024
• GPA: 3.76/4.0 (Cum Laude)	
<b>Riverside City College</b> , AS in Physics for Transfer	Jun 2020 – Dec 2022
• GPA: 3.51/4.0	
<b>Riverside City College</b> , AS in Science and Math	Jun 2020 – Dec 2022
• GPA: 3.51/4.0	

## Experience

<b>Research fellow</b> , University of California, Davis	Sep 2025 – Present
• Continuing a year-long research collaboration involving the training of machine learning algorithms, statistical analysis, and presentation of research on the education-occupation mismatch rates of undocumented college graduates	
• Implementing efficient data collection practices through the automation of URL fetching and web scraping of public university course catalogs (bulletins) using Python	
• Validating human classifications of university grading policies using open-source LLMs from Ollama	
<b>Statistical analyst freelancer</b> , Upwork	Mar 2025 – Present
• Conducting statistical analyses through R and Stata for clients and their businesses and research spanning the fields of economics, business, and immigration	
• Reviewing data analysis reports on business performance, and verifying statistics on Net Revenue Retention (NRR)	
• Communicating with clients on project needs, timelines, and the direction of their work	
• Consulting clients with strategy and advice on tackling business and research data-oriented problems	
<b>Data Analytics Intern</b> , XCITE Center for Teaching and Learning, University of California – Riverside, CA	Apr 2023 – Oct 2024
• Cleaning and preparing data in spreadsheets with a concrete understanding of data and statistics fundamentals	
• Investigated AI products such as Google Gemini and Notebook LM for potential academic use	
• Organizing and analyzing data through Tableau, Looker Studio, and Google Sheets to inform decision-makers about which learning technologies and tools best improve and enrich the teaching and learning experience	
• Built a data management strategy and wrote a Standard Operating Procedure document as requested, to implement guidelines for data governance and working procedures	
• Automating tasks and workflows with Zapier after cleaning data to optimize environment	
• Communicating with peers to prepare for and execute projects	
<b>Summer Research Fellow</b> , Mind the Gap, University of California – Riverside, CA	Jun 2024 – Aug 2024
• Conducted research alongside professor/mentor using Stata to analyze and manage data	
• Developed econometric models from extensive literature review on immigration policies affecting labor market outcomes in the United States	
• Cleaned and prepared dataset consisting of millions of observations from the American Community Survey	
• Used difference-in-differences, population weights, methodology for estimating hidden populations, cluster and fixed effects models, and robustness checks to estimate education-occupation mismatch rates and wage penalties of undocumented college graduates	

## Research

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### Using Machine Learning to Estimate the Effect of Undocumented Status on Education-Occupation Mismatch for College Graduates

Jun 2024 - Present

Dr. Veronica Sovero, *Mario Arce Acosta*

[github.com/Newtrino0/Undocu\\_Mismatch\\_Wage\\_Research\\_2024](https://github.com/Newtrino0/Undocu_Mismatch_Wage_Research_2024)

## Projects

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### 2025 Association for Public Policy Analysis and Management Conference Presentation

[github.com/Newtrino0](https://github.com/Newtrino0)

- Presented research to scholars and researchers at the 2025 Association for Public Policy Analysis and Management Conference in Seattle, Washington.
- Dr. Sovero and I refined our research on education-occupation mismatch of undocumented college graduates, preparing clean data visualizations and summaries of our findings
- Tools Used: Stata, IPUMS/ACS, Google Suite, LaTex, Github

### 2025 Population Association of America Conference Presentation

[github.com/Newtrino0](https://github.com/Newtrino0)

- Presented research to scholars and researchers at the 2025 Population Association of America Conference in Washington, D.C.
- Dr. Sovero and I refined our research on education-occupation mismatch of undocumented college graduates, preparing clean data visualizations and summaries of our findings
- Tools Used: Stata, IPUMS/ACS, Google Suite, LaTex, Github

### Summer Research Poster

[sites.google.com/Mario](https://sites.google.com/Mario)

- Developed a poster summarizing my research findings and efforts made through a 3 month research fellowship at UCR
- Along with my mentor, I continued this line of research, which involved the following work: working with ACS data from IPUMS, conducting an extensive literature review on education-occupation mismatch and economic barriers to undocumented workers, creating indicators for education-occupation mismatch, building differences-in-differences and event study regression models, and incorporating population weights into the models
- Tools Used: Stata, IPUMS/ACS, Google Suite, Github

### XCITE Center for Teaching and Learning LTI Dashboards

[sites.google.com/Mario](https://sites.google.com/Mario)

- This was a year-long project where I was tasked with gathering, cleaning and preparing, and analyzing data which I then displayed through Google Looker Studio report dashboards
- Tools Used: Google Looker Studio, Google Suite, Spreadsheets, Asana, Slack, Zoom, Zapier

### XCITE Center for Teaching and Learning LTI Annual Report

[sites.google.com/Mario](https://sites.google.com/Mario)

- Once a database was established on all Learning Tools Interoperability (LTI), I developed a report spanning an academic year with key metrics and usage of the learning tool by faculty and staff.
- Tools Used: Google Looker Studio, Spreadsheets, Asana, Slack

### Business Analytics course independent research project on H-1B sponsors

[github.com/Newtrino0](https://github.com/Newtrino0)

- I gathered data from the United States Citizenship and Immigration Services (USCIS) website on all the H-1B sponsors for the year 2015. I created a regression model to examine correlation between industry and approval rates.
- Tools Used: RStudio, Spreadsheets, Github

### Econometrics course independent research project on Airbnb prices in Mexico

[github.com/Newtrino0](https://github.com/Newtrino0)

- I extracted data from Kaggle, originally sourced from a mission based project named Inside Airbnb, and then constructed an econometric model relating the log price of an Airbnb with like availability and minimum night requirements.
- Tools Used: RStudio, Spreadsheets, Github

## Technologies

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**Programming Languages:** R, Stata, Python

**Software:** RStudio, VS Studio, Google Looker Studio, Google Workspace, Microsoft Office, Github, PyCharm, Octoparse, Zapier

**Languages:** English, Spanish