Alejandro M. Ouslan

Education

University of Puerto Rico, Mayagüez	Mayagüez, PR
B.A. in Economics GPA: 3.50	*Aug. 2019 – May 2024*
Howard University	Washington, DC
AEA Summer Program GPA: 3.75	*May 2023 – Jul 2024*
University of Puerto Rico, Mayagüez	Mayagüez, PR
M.S. in Statistical Mathematics GPA: 3.36	*Aug. 2024 – Present*

Extracurricular Activities

Student Money Association — Sept. 2023 – Jun. 2024
Student Advisor — *Mayagüez, PR*
- Assisted students in developing personalized budgets and improving financial literacy.
- Promoted campus-wide awareness of responsible money management.

Economics Student Association — Sept. 2022 – Present
Treasurer — *Mayagüez, PR*
- Managed the association's annual budget and tracked expenditures.
- Organized fundraising events to support student activities and conferences.

University of Salamanca — Sept. 2022 – Present
Guest Lecturer — *Salamanca, Spain*
- Delivered a workshop on Data Science and Research Automation for political science students.
- Taught web scraping and API integration in Python to create reproducible reports.

Experience

L'SPACE HYDROS, NASA — Jan 2020 – May 2020
Internship — *Mayaguez, PR*
- worked with other engenerees to design a moon landing drone to extract water from the moon and write a proposal
- I was tasked to maintain the projects budget to be below 10Mil

RUMbo EX, UPRM — Sept. 2021 – Sept. 2022
Statistics and Economics Tutor — *Mayagüez, PR*
- Tutored undergraduate students in Microeconomics, Macroeconomics, Calculus I, Statistics I & II, and Engineering Economic Analysis.
- Provided 1-on-1 and group sessions with tailored study plans.

AEASP, Howard University — May 2024 – Jul 2024
AEA Scholar — *Washington, DC*
- Conducted research with the U.S. Census Bureau on travel time and road infrastructure.
- Used Spatial Regression to explore regional disparities across U.S. PUMAs (2012–2019).

LEADING Hispanics, USDA — Sept. 2023 – Aug. 2024
Research Assistant — *Mayagüez, PR*
- Studying the correlation between food deserts and the prevalence of chronic diseases.
- Analyzing spillover effects of proximity to food deserts using spatial econometrics.

Experimental Agriculture Station, UPRM — June 2024 – Present
Lead Developer — *Mayagüez, PR*
- Leading a team of 5 engineers to develop web platforms for agricultural research.
- Created digital forms to collect detailed survey data from farmers.
- Built an interactive map estimating caloric intake by county in Puerto Rico.

Puerto Rico Planning Board — Jan 2024 – Jul 2025
Lead Developer — *Mayagüez, PR*
- Managing a team of 15 engineers to build data pipelines for economic indicators.
- Calculate the GDP for PR from scratch
- Automated ingestion of data into SQL databases in monthly, quarterly, and yearly formats.
- Developed CI/CD pipelines for containerized applications using Docker and Nix.

Awards & Publications

Departmental Research Medal — Aug. 2023

University of Puerto Rico, Mayagüez — *Mayaguez, PR*

- Recognized for excellence in undergraduate research and GPA above 3.5.

2nd Place, Agricultural Economics Conference — June 2025

University of Puerto Rico, Mayaguez — *San Juan, PR*

- Awarded for best research in economics at the master's level.
- Research on the impact of minimum wage on employment and its spatial spill over effects.

X Jornadas Internacionales de Enseñanza — July 2023

University of Salamanca — *Spain*

- Wrote about the importance utilizing more sophisticated tools like python and SQL
- DOI: doi.org/10.14201/0AQ0368

Economic Report to the Governor 2023 — May 2024

Puerto Rico's Planning Board — *San Juan, PR*

- Conducted research and calculate the Human Development Index (IDH) for Puerto Rico for the Periods 2012-2023
- Link: https://jp.pr.gov/wp-content/uploads/2024/07/IEG2023-OCE-SA-2024-08598.pdf

Skills & Interests

Skills: Python, Rust, R, STATA, SQL, Git, Machine Learning, GIS, GAM, Docker, DevOps, Nix, PyMC, Bayesian Modeling

Interests: Macroeconomics, Spatial Econometrics, Bayesian Inference, Time Series Analysis, Causal Inference

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