ALEJANDRO M. OUSLAN

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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. 2023*

University of Puerto Rico, Mayagüez — Mayagüez, PR
M.S. in Statistical Mathematics   GPA: 3.36 — *Aug. 2024 – Expected May 2026*

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
Intern — *Mayagüez, PR*
- Collaborated with engineers to design a lunar drone for water extraction and prepared a project proposal.
- Managed the project's budget, ensuring costs remained below $10 million.

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.
- Led personalized one-on-one 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.
- Applied spatial regression to assess regional disparities across U.S. PUMAs (2012–2019).

LEADING Hispanics, USDA — Sept. 2023 – Aug. 2024
Research Assistant — *Mayagüez, PR*
- Analyzed the correlation between food deserts and chronic disease prevalence.
- Evaluated spillover effects using spatial econometrics.

Experimental Agriculture Station, UPRM — Sept. 2023 – Jul. 2025
Lead Developer — *Mayagüez, PR*
- Leading a team of 5 engineers to develop web platforms for agricultural research.
- Created digital survey tools for collecting field 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*
- Led a 15-person team building data pipelines for key economic indicators.
- Calculated Puerto Rico's GDP from primary data sources.
- Automated data ingestion into SQL databases (monthly, quarterly, yearly).
- Developed CI/CD pipelines for containerized apps using Docker and Nix.

Awards & Publications

Departmental Research Medal   Aug. 2023
University of Puerto Rico, Mayagüez   *Mayagüez, PR*
  - Recognized for excellence in undergraduate research and a GPA above 3.5.

2nd Place, Agricultural Economics Conference   June 2025
University of Puerto Rico, Mayagüez   *San Juan, PR*
  - Awarded for research on minimum wage impacts and spatial spillover effects.

X Jornadas Internacionales de Enseñanza   July 2023
University of Salamanca   *Salamanca, Spain*
  - Published work on the importance of utilizing advanced tools such as Python and SQL in academic research.
  - DOI: doi.org/10.14201/0AQ0368

Economic Report to the Governor 2023   May 2024
Puerto Rico Planning Board   *San Juan, PR*
  - Calculated the Human Development Index (HDI) for Puerto Rico (2012–2023).
  - Report link: jp.pr.gov/.../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