ALEJANDRO M. OUSLAN

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EDUCATION

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

AEA Summer Program — Washington, DC
Howard University   GPA: 3.75 — *May 2025 – Jul. 2025*

B.A. in Economics — Mayagüez, PR
University of Puerto Rico, Mayagüez   GPA: 3.50 — *Aug. 2019 – May 2024*

AEA Summer Program — Washington, DC
Howard University   GPA: 3.75 — *May 2024 – Jul. 2024*

AWARDS & PUBLICATIONS

Economic Report for the Governor 2023 — May 2024
Puerto Rico Planning Board — *San Juan, PR*

- Calculated the Human Development Index (HDI) for Puerto Rico (2012–2023) and wrote a chapter in the Economic Report for the Governor 2023.
- Report link: jp.pr.gov/.../IEG2023-OCE-SA-2024-08598.pdf

Best Graduate research, Symposium on Applied Economics — June 2025
University of Puerto Rico, Mayagüez — *Mayagüez, PR*

- Awarded 2nd place best graduate research. Studied the impacts of minimum wage on employment and its spatial spillover effects.

Medal of the Department — May. 2024
University of Puerto Rico, Mayagüez — *Mayagüez, PR*

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

X International Conferences in Statistics and Operational Research — 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

EXPERIENCE

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.

Food Security Data Center (SEA), UPRM — Sept. 2023 – Jul. 2025
Lead Developer — *Mayagüez, PR*

- Leading a team of 5 engineers to develop web platforms for the Experimental Agricultural Station (SEA).
- Built an interactive map estimating caloric intake by county in Puerto Rico.
- Created automation tools to automatically take data from the QCEW and report the amount of food establishments in PR.

Agricultural Coffee Survey (SEA), UPRM — Mar. 2024 – Jul. 2025
Lead Developer — *Mayagüez, PR*

- Leading a team of 5 engineers to develop web platforms for the Experimental Agricultural Station (SEA).
- Created digital survey tools for collecting field data from farmers.
- Built automation tools for ingesting the survey data and producing automated reports

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.

RUMbo EX, UPRM   Sept. 2023 – Jan. 2024

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.

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.

EXTRACURRICULAR ACTIVITIES

University of Salamanca   Mar. 2023

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.

Economics Student Association   Aug. 2021 – Jun. 2022

Treasurer   *Mayagüez, PR*

- Managed the association's annual budget and tracked expenditures.
- Organized fundraising events to support student activities and conferences.

Student Money Association   Sept. 2019 – Jun. 2022

Student Advisor   *Mayagüez, PR*

- Assisted students in developing personalized budgets and improving financial literacy.
- Promoted campus-wide awareness of responsible money management.

SKILLS & INTERESTS

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

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