

# ALEJANDRO M. OUSLAN

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## EDUCATION

### M.S. in Statistical Mathematics

University of Puerto Rico, Mayagüez GPA: 3.36

Mayagüez, PR  
Aug. 2024 – Expected May 2026

### AEA Summer Program

Howard University GPA: 3.75

Washington, DC  
May 2025 – Jul. 2025

### B.A. in Economics

University of Puerto Rico, Mayagüez GPA: 3.50

Mayagüez, PR  
Aug. 2019 – May 2024

## AWARDS & PUBLICATIONS

### Economic Report for the Governor 2023

Puerto Rico Planning Board

May 2024  
San Juan, PR

- Calculated the Human Development Index (HDI) for Puerto Rico (2012–2023) and contributed a chapter to the Economic Report for the Governor 2023.
- Used data from the IPUMS
- Report link: [jp.pr.gov/.../IEG2023-OCE-SA-2024-08598.pdf](https://jp.pr.gov/.../IEG2023-OCE-SA-2024-08598.pdf)

### Best Graduate Research, Symposium on Applied Economics

University of Puerto Rico, Mayagüez

June 2025  
Mayagüez, PR

- Awarded 2nd place for best graduate research.
- Analyzed the effects of minimum wage changes on employment in foreign versus domestic businesses. Found varying impacts across NAICS sectors, with domestic businesses experiencing a reduction in employment and foreign businesses facing a stronger negative impact.
- Used uncensored QCEW data from the BLS and applied a Bayesian panel regression with fixed effects to estimate the posterior coefficients of the minimum wage on employment.

### Medal of the Department

University of Puerto Rico, Mayagüez

May. 2024  
Mayagüez, PR

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

### X International Conference in Statistics and Operational Research

University of Salamanca

July 2023  
Salamanca, Spain

- Published work on the importance of utilizing advanced tools like Python and SQL in academic research.
- DOI: [doi.org/10.14201/0AQ0368](https://doi.org/10.14201/0AQ0368)

## EXPERIENCE

### Puerto Rico Planning Board

Lead Developer

Jan. 2024 – Jul. 2025  
Mayagüez, PR

- Led a 15-person team to develop data pipelines for key economic indicators.
- Utilized Django for the frontend and FastAPI for the backend.
- Developed API endpoints to download data from sources such as USA Spending, PR Department of Labor, Census Bureau, PR Planning Board, PR Statistics Institute, Luma Energy, and BLS.
- Automated data ingestion into SQL databases on a monthly, quarterly, and yearly basis.
- Developed CI/CD pipelines using GitHub Actions to package modules as pip packages, bundle the project with Docker, and deploy to a hosted Nix server.

### Food Security Data Center (SEA), UPRM

Lead Developer

Sept. 2023 – Jul. 2025  
Mayagüez, PR

- Led a team of 5 engineers to develop web platforms for the Experimental Agricultural Station (SEA).
- Used IPUMS data to calculate caloric intake by county in Puerto Rico and create interactive maps.
- Developed automation tools for extracting and reporting food establishment data from the QCEW.

### Agricultural Coffee Survey (SEA), UPRM

Lead Developer

Mar. 2024 – Jul. 2025  
Mayagüez, PR

- Led a team of 5 engineers to develop digital survey tools for collecting field data from farmers.
- Built automation tools to ingest survey data and produce 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, finding a positive correlation between proximity to food deserts and higher cancer mortality rates.
- Applied a Bayesian Spatial Durbin Model using uncensored QCEW data from the BLS.
- 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, Econometrics, pre-Calculus I & II, Calculus I, Statistics I & II, and Engineering Economic Analysis.
- Led personalized one-on-one and group sessions with tailored study plans. Prepared simulated exams on for the Calculus

### **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**

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### **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 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**

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**Skills:** Python, Rust, R, STATA,  $\text{\LaTeX}$ , SQL, Git, Machine Learning, GIS, GAM, Docker, DevOps, Nix, PyMC

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