

PABLO ESTRADA

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[LinkedIn/Github](#)

Citizenship: Ecuador

Work Status: U.S. Permanent Resident

EDUCATION

Emory University, Atlanta, GA

Ph.D. in Economics

Expected May 2025

M.S. in Economics

May 2024

PROFESSIONAL EXPERIENCE

Statistical Programmer, Google Summer of Code

May – Sep 2020

- Developed and programmed spatial regression models for the spatial data science Python library [PySAL](#), with the contributions later released to the research community ([GitHub Repository](#) of the project)

Research Assistant, World Bank

May – Sep 2020

- Conducted causal inference analysis and data cleaning of business income tax records for all firms in Liberia to assess the economic impact of Ebola
- Executed quasi-experimental methods and exploratory data analysis to determine the impact of curfews on economic activity

Data Analyst, Claro Telecom Company

Aug 2019 – Jan 2020

- Collaborated with cross-functional teams to launch a new store project, leading data collection and analysis to assess the financial impact of the store's opening
- Forecasted demand of product families using Recurrent Neural Networks (LSTM) and ARIMA with Python and SQL
- Automated visualizations in Tableau dashboards for Vicepresident, resulting in 400 hours saved annually

Research Consultant, Maven Road

Mar - Sep 2018

- Managed joint work with engineering team to extract and analyze 75K Twitter users' public data for targeted marketing campaigns
- Implemented machine learning and natural language processing to classify Twitter users
- Utilized state-of-the-art clustering techniques to identify the top 5% most productive delivery drivers for the optimization of a company operations

Research Assistant, Espol University

Nov 2017 – Dec 2019

- Extracted data from 6K US hospitals and 60K user profiles on Yelp using Python and web scraping to investigate the influence of online reviews on hospital choices
- Calculated network and centrality measures in R for 6K research papers from top journals, advancing the understanding of academic networks

RESEARCH EXPERIENCE

Interests: Network Interference, Causal Inference, Machine Learning

Dissertation

Aug 2021 – Aug 2024

- Developed a novel method to estimate network effects in randomized experiments with missing outcome data using machine learning techniques ([GitHub Repository](#) for the Python package)
- Studied adolescent behavior and peer effects across multiple social connections using friendship and classroom data, and presented it in six conferences/seminars across top-ranked universities

[Link to my Website](#) for other publications and working papers

TEACHING EXPERIENCE

Selected Courses

Big Data Econometrics (MSc): machine learning and high-dimensional econometrics

Fall 2024

Causal Inference (MSc): randomized experiments and quasi-experiments

Fall 2024

Data Experiments (MSc): A/B tests and causal machine learning

Summer 2024

Advanced Econometrics (PhD - Teaching Assistant)

Spring 2023

SKILLS

[Link to my Computing Labs and Coding Projects](#)

Software & Tools: Python, SQL, R, Tableau, Stata, Matlab, NetworkX, Scikit-learn, DoubleML

Interests: Premier League and coffee experiments

Languages: Spanish (native), English (fluent)

SERVICE

AWS Educate Ambassador, Amazon Web Services

2021

Enabled students to gain real-life experience while facilitating the acquisition of valuable AWS technical skills