

PABLO ESTRADA
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US Permanent Resident

EDUCATION

Emory University, Atlanta, GA

Ph.D. in Economics

May 2025 (Expected)

M.S. in Economics

May 2024

Espol University, Ecuador

M.S. in Economics

April 2021

B.S. in Economics

April 2019

RESEARCH INTERESTS

Network Interference, Causal Inference, Machine Learning, Labor Economics

JOB MARKET PAPER

Spillover Effects with Nonrandom Sample Selection

This paper proposes a method to estimate spillover effects of a random treatment using a nonrandom sample of individuals for whom the analyst can observe their outcomes, i.e., nonrandom sample selection. The proposed method employs an exposure monotonicity assumption that extends the conventional Lee bounds. Under this assumption, I show how to compute the bounds for a spillover estimand that allows for the inclusion of covariate adjustments and network dependence.

PUBLICATIONS

1. **Estrada P.** and Sanchez-Aragon L. (2020). “Financial Contagion in Cross-holdings Networks: The Case of Ecuador”. *The Econometrics of Networks (Advances in Econometrics, Vol. 42)*.

WORKING PAPERS

1. Carrubba C., Estrada J. and **Estrada P.** (2024). “Estimating Network Effects and Their Impact on Congressional Polarization”. *Under Review*.
2. An W., **Estrada P.**, Estrada J. and Jacho-Chavez D. (2024). “Estimating Peer Influence on Multilayer Networks”. *Under Review*.
3. **Estrada P.**, Markowitz S. and Witthaus A. (2024). “Sex-Based Wage Gaps in Nursing”. *Under Review*.
4. **Estrada P.**, Estrada J., Huynh K., Jacho-Chavez D. and Sanchez-Aragon L. (2024). “netivreg: Estimation of Peer Effects in Endogenous Social Networks”. *Revised and Resubmit - Stata Journal*.

WORK EXPERIENCE

- Data Mining Analyst*, [Claro Telecom Company](#) 2020
 - Improved demand forecasts in Python and SQL; and automated visualizations in Tableau dashboards for vice-president resulting in 400 hours saved annually.
- Statistical Programmer*, [Google Summer of Code](#) 2020
 - Extended the open-source Python library ([PySAL](#)) to include spatial regression models for panel data.
- Research Assistant*, [World Bank](#) 2020
 - Cleaned and analyzed business income tax data of the universe of firms in Liberia.
- Research Consultant*, [Maven Road](#) 2018
 - Classified 75K Twitter with machine learning to create marketing campaigns.
 - Characterized the most productive delivery drivers of a company using clustering techniques.
- Research Assistant*, [Espol University](#), Ecuador 2017 – 2019
 - Extracted information of 6K US hospitals and 60K user profiles in Yelp with a web scraper using Python.
 - Constructed networks and centrality measures in R for 6K research papers' data of top journals.

SKILLS

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

Programming: Python, R, Stata, Matlab, SQL

Networks: NetworkX, PySAL

Machine Learning: Scikit-learn, DoubleML

Visualizations: Tableau

TEACHING

Emory University

ECON-521: Econometrics of Causal Inference - M.S. Level (Co-Instructor)	Fall 2024
ECON-524: Big Data Econometrics - M.S. Level (Co-Instructor)	Fall 2024
ECON-112: Principles of Macroeconomics (Main Instructor)	Spring 2024
ECON-626: Quantitative Methods II - PhD Core (Co-Instructor)	Fall 2023
ECON-526: Quantitative Methods I - PhD Core (Co-Instructor)	Fall 2023
ECON-521: Advanced Econometrics - PhD Core (Teaching Assistant)	Spring 2023
ECON-626: Quantitative Methods II - PhD Core (Co-Instructor)	Fall 2022
ECON-526: Quantitative Methods I - PhD Core (Co-Instructor)	Fall 2022

CONFERENCE PRESENTATIONS

2024 1) Invited Speaker at West Virginia University.

2023 1) Econometric Society European Summer Meeting. 2) Conference on Network Science and Economics. 3) Midwest Econometrics Group Conference. 4) ASHEcon. 5) Cafe CIEC Conference.

2022 1) OSG Summer School.

REFEREE ACTIVITY

Referee for *Journal of Business & Economic Statistics*

SERVICE

AWS Educate Ambassador, Amazon Web Services 2021
Provides students the opportunity to gain real-life experience while helping their peers gain valuable Amazon Web Services (AWS) technical skills.

Emory University, First Year Peer Mentor 2022 – 2024
Emory University, Student-led Econometrics Reading Group Organizer 2022 – 2024

PERSONAL INFORMATION

Citizenship: Ecuador (green card holder)