Pedro E. Rodriguez

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Education:

PhD Economics, 3rd year student   2020 – 2025 (Expected)
George Washington University, Washington DC, United States
Fields: Applied Microeconomics, Development Economics, Urban Economics

MSc. Economics, *Distinction (highest honor)*   2017 – 2018
University of Essex, Colchester, England

B.A. Economics, *Magna Cum Laude*   2011 – 2015
Bryant University, Smithfield RI, United States

Econometrics Course, Brown University, Providence RI, United States   Summer 2015

Research Experience:

Summer 2022	Sustainable Development Fellow, World Bank, Washington DC
2018 – 2020	Research Fellow, Research Department, Inter-American Development Bank, Washington DC
Summer 2015	RA for Nicole Freiner, Bryant University, Smithfield RI
Summer 2014	RA, Labor & Employment Unit (SEDI), Organization of American States, Washington DC
Summer 2013	RA for CIE, Universidad de las Américas, Quito, Ecuador

Teaching Experience:

Spring 2022	TA for Irene Foster, Principles of Macroeconomics, George Washington University
Fall 2021	TA for Daniel Mackay, Principles of Microeconomics, George Washington University
2014 – 2015	Tutor and Coordinator, Stata Lab, Bryant University
2012 – 2015	Tutor, Principles of Microeconomics, Bryant University
2012 – 2015	Tutor, Principles of Macroeconomics, Bryant University

Honors and Awards:

2020 – 2025	Graduate Assistantship, George Washington University
2017 – 2018	Merit-Based Academic Excellence Scholarship, University of Essex
May 2015	Best Economics Undergraduate Thesis, Bryant University
May 2015	Excellence Award (highest GPA of major, 1st/15), Bryant University
2011 – 2015	Merit-Based World Community Scholarship, Bryant University

Working Papers:

1. Crime-Differential Responses to an Environmental Shock: Evidence from Chile (joint with Patricio Dominguez)

We study the effect of unexpected blackouts on criminal activity. Blackouts can disrupt the urban space abruptly changing the provision of light, and potentially the distribution of criminal opportunities. Using high-frequency administrative data of all power outages reported in Chile during 2014-2015, we analyze how they affect crime along several dimensions. We find no effect on aggregate crime rate, but we also find two offsetting reactions driving this result: a positive increase in burglary, and a negative effect in robbery. By exploiting unique features of the data we also analyze several dimensions of treatment effect heterogeneity regarding magnitude, size and duration of the blackout. In addition, we find that crime-responses differ by municipality income. We validate our findings by conducting a set of placebo exercises. Our results suggest that criminals react to changes in incentives by carrying out crimes that yield a higher expected payoff.

Works in Progress:

1. Police-Monitored Cameras and Crime: Evidence from Ecuador (joint with Andrea Aguirre and Patricio Dominguez)
2. Access to Justice and Domestic Violence: Evidence from India's One-Stop Centers (joint with Ammu Lavanya)
3. The Economic Effects of Redevelopment: Evidence from Mexico's 1985 Earthquake (joint with Remi Jedwab) – For this project we received a grant ($1,700) from ESIA for field work.

Contributions:

1. RA for "The effect of air pollution on student absenteeism" (Patricio Dominguez & Krista Ruffini): Downloaded hourly station level data on $PM2.5$, $PM10$, $CO2$, $SO2$, precipitation and wind-direction. Estimated school-day level

pollution exposure using an inverse distance weighted strategy and the geocoded location of all schools in Chile using R. Merged school-day level student absenteeism rates and performed several reduced form analyses.

2. RA for "The Inequality Crisis: Latin America and the Caribbean at the Crossroads" (Chapter 3): Downloaded and homogenized survey data for several Latin American countries. Produced descriptive statistics and comparative graphs on perceptions of security, immigration, and education using Stata and R.

3. RA for project measuring intra-household spillover effects of incarceration in Trinidad & Tobago (Diego Vera): Created a panel matching incarcerated individuals to their households using last names, high school attended and county of residence using administrative data from Trinidad & Tobago.

4. RA for project mapping mobility patterns and exposure to pollution in Santiago, Chile. (Bridget Hoffman & Patricio Dominguez): Using origin-destination surveys I reconstructed hourly mobility patterns by socioeconomic status. Merged with hourly-level station level pollution data to measure exposure to pollution.

Op-eds:
1. [Ideas to safely reduce prison populations during the pandemic](#) (Ideas Matter – May 2020)
2. [Pandemic and prisons: What are the challenges for Latin American countries](#) (Ideas Matter – April 2020)

Other Experience:

June 2019	Participant, Summer Institute in Computational Social Science (SICSS)
2016 – Present	Founding Member, Relief Foundation (www.teamrelief.org)
2016 – 2017	Consultant, Actuarial Modeling Division, Actuaria Consultores, Quito, Ecuador
2015 – 2016	Programmer, Risk Analysis, National Council on Compensation Insurance, Boca Raton, FL
2014	President, Student Senate, Bryant University

Computational: R, ArcGis, Stata, Python, TeX.
Language: English (fluent), Spanish (native), Italian (beginner)

References:

Patricio Dominguez	Remi Jedwab	Paul Carrillo
Assistant Professor	Associate Professor	Professor
Industrial Engineering Department	Economics Department	Economics Department
Universidad Catolica de Chile	George Washington University	George Washington University
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