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Economics Department

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Education:PhD Economics, 2nd year student

2020 – 2025 (Expected)

George Washington University, Washington DC, United States

Fields: Applied Microeconomics & Development 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

Study Abroad, Economics Department, Universidad Carlos III, Madrid, Spain

Fall 2013

Research Experience:

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 Roberto Mosquera, 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 Undergraduate Thesis (among all graduating seniors, 1st/788), 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. Geography of Latin American Cities and Urban Outcomes (joint with Remi Jedwab)

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. Then, using administrative data from Trinidad & Tobago, we estimated several reduced form regressions measuring intra-household spillover effects on educational and judicial outcomes.
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), CUNY
2016 – Present	Founding Member, Relief Foundation (www.teamrelief.org)
2016 – 2017	Consultant, Actuarial Modeling Division, Actuarial 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 Assistant Professor Industrial Engineering Department Universidad Catolica de Chile pdomingr@ing.puc.cl	Remi Jedwab Associate Professor Economics Department George Washington University jedwab@gwu.edu	Paul Carrillo Professor Economics Department George Washington University pcarrill@gwu.edu
Melvyn Coles Professor Economics Department University of Essex mcole@essex.ac.uk	Marcus Chambers Professor Economics Department University of Essex mchamb@essex.ac.uk	Arun Malik Professor Economics Department George Washington University amalik@gwu.edu