

Daniel AC Barbosa

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Education

2022- MPhil/DPhil in Economics, University of Oxford & Nuffield College
Clarendon Scholar

2016-2020 B.Sc. in Economics, Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)
Minor in Mathematical Methods

Working Papers

- **De-escalation technology: the impact of body-worn cameras on citizen-police interactions**
(with Caterina Soto-Vieira, Thiemo Fetzer and Pedro CL Souza)

Abstract: We provide experimental evidence that monitoring of the police activity through body-worn cameras reduces use-of-force, handcuffs and arrests, and enhances criminal reporting. Stronger treatment effects occur on events classified ex-ante of low seriousness. Monitoring effects are moderated by officer rank, which is consistent with a career concern motive by junior officers. Overall, results show that the use of body-worn cameras de-escalates conflicts.

Work in Progress

- **Conflict in Space**, with Thiemo Fetzer and Pedro CL Souza

Previous Positions

2021 Pre-Doctoral Researcher
Supervisors: Thiemo Fetzer (Warwick) and Pedro CL Souza (Queen Mary)
Research Areas: Spatial and Network Econometrics; Economics of Conflict and Crime

2021 DataZoom PUC-Rio
Software Developer and Team Coordinator
Development of an R package to ease access to Amazon Data to researchers, policy-makers and the general public. The project is part of Amazonia 2030, an initiative that aims to develop an action plan for the sustainable development of the Brazilian Amazon. Responsibilities included the development of package infrastructure and teaching an R programming course to the incoming cohort of junior RA's.

- 2018-2020** EGAP Metaketa IV Brazil Section
Research Assistant to Thiemo Fetzer (Warwick) and Pedro CL Souza (Queen Mary)
 Joint with Caterina Soto (LSE), I oversaw the implementation of body-worn cameras and community policing (Rede de Vizinhos) RCT in Santa Catarina, Brazil. Tasks included survey preparation (ODK), field team overseeing, data management, and regression analysis
- 2019** Climate Policy Initiative, Brazil
Research Assistant to Arthur Bragança (CPI/PUC-Rio)
 RA in projects related to infrastructure development, deforestation, and land use in the Brazilian Amazon. Responsibilities included geo-data processing and computation of general equilibrium trade models in Python and econometric modeling in R

Teaching

- 2020** TA ECO1222 Political Economics
Undergraduate PUC-Rio
Main Reference: Political Economics - Persson & Tabellini (2002)
Supervisor: Maína Celidônio (Lecturer; PhD PUC Rio, 2019)
- 2018** TA ECO1113 Micro I: Consumer and Producer Theory
Undergraduate PUC-Rio
Main Reference: Intermediate Microeconomics: A Modern Approach - Varian
Supervisor: Juliano Assunção (Associate Professor, PUC-Rio)
- 2017** TA ECO1110 Introduction to Macroeconomics
Undergraduate PUC-Rio
Main Reference: Macroeconomics - Mankiw
Supervisor: Hamilton Kai (Lecturer; PhD PUC Rio, 2010)

Others

- **Programming**

R: Data Wrangling (Tidyverse and DataTable), Spatial Analysis (SF, Stars), Statistical Inference and Package Development

Stata: Data Wrangling, Statistical Inference and Ado Development (MATA)

Python: (Geo)Data Wrangling (Pandas, GeoPandas), Data Visualisation (Matplotlib) and Numerical Optimisation

Others: Git/GitHub and Julia

- **Languages**

English: Fluent - TOEFL 114

Spanish: Advanced

Portuguese: Native