Daniel AC Barbosa

Personal Information

Daniel Adriano Carvalho Barbosa
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Current Position

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

Education

B.Sc. Economics at PUC-Rio with minor in Mathematical Methods for Economics   *2016 - 2020*

- ▷ Overall GPA : 9.2/10 (Class Overall : 7.4/10)
- ▷ Math Minor GPA : 8.7/10
- ▷ Economics Core GPA : 9.12/10
- ▷ Best Economics Student Award - Spring Semester, 2017
- ▷ CAPES Study Group Fellowship - 2017/2020
- ▷ Economics Academic Center Director & Organizer of Seminar Series

Working Papers

De-escalation technology : the impact of body-worn cameras on citizen-police interactions - Under Review at *AER : Insights* - Link

Joint work with Caterina Soto (LSE), Thiemo Fetzer (Warwick) and Pedro CL Souza (Queen Mary)

📰 Media Coverage : O Estado de S. Paulo | BBC Brazil | Folha de Sao Paulo | Fantástico

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.

Can Trust be Built Through Citizen Monitoring of Police Activity ?
▷ Part of EGAP Metaketa IV: Community Policing

Forthcoming as a book chapter in *Crime, insecurity, and community policing : Experiments on building trust. Cambridge University Press.* - Link

Joint work with Caterina Soto (LSE), Thiemo Fetzer (Warwick) and Pedro CL Souza (Queen Mary)

Work in Progress

Conflict in Space, joint with Thiemo Fetzer (Warwick) and Pedro CL Souza (Queen Mary)

Software

Recovering Networks from Panel Data - R Package
Joint with Pedro CL Souza (Queen Mary)
Sofware for De Paula, Rasul and Souza (2021) - R&R ReStud

Work Experience

Research Assistant on EGAP Metaketa IV Brazil's Section - Link   *2018-2020*
Supervisors : 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.

Software Developer at DataZoom - PUC Rio   *2021.1*
Supervisors : Gustavo Gonzaga (PUC-Rio) and Francisco Cavalcanti (Post-Doc, PUC-Rio)

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.

Research Assistant at Climate Policy Initiative, Rio de Janeiro   *2019.1*
Supervisor : 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

TA ECO1222 Political Economics - Syllabus (PT-BR)   *2020.1 - 2020.2*
Main Reference : Political Economics - Persson & Tabellini (2002)
Professor : Maína Celidônio (Lecturer, PhD PUC Rio, 2019)

TA ECO1113 Micro I : Consumer and Producer Theory - Syllabus (PT-BR)   *2018.1*
Main Reference : Intermediate Microeconomics : A Modern Approach - Varian
Professor : Juliano Assunção (Associate Prof. Economics PUC-Rio, PhD PUC Rio, 2002)

TA ECO1110 Introduction to Macroeconomics - Syllabus (PT-BR)   *2016.2*
Main Reference : Macroeconomics - Mankiw
Professor : Hamilton Kai (Lecturer, PhD PUC Rio, 2010)

PROGRAMMING

Git/GitHub : Version Control for reproducible analysis
R : Data Manipulation (Tidyverse, DataTable), Spatial Analysis (SF, Stars), Statistical Inference, Package Development (DevTools)
STATA : Data Manipulation, Statistical Inference and Ado Development (MATA)
Python : (Geo)Data Manipulation (Pandas, GeoPandas), Data Visualisation (MatPlotLib) and Optimisation Methods

LANGUAGES

English : Fluent | **Spanish** : Fluent | **Portuguese** : Native

STANDARDIZED
TESTS

GRE : Q 170 | V 160 | AW 4.0
TOEFL : Overall 114 | R 30 | L 29 | S 26 | W 29

REFERENCES

▷ Pedro CL Souza (Department of Economics and Finance, Queen Mary ; PhD LSE 2015)
▷ Thiemo Fetzer (Economics Department, U of Warwick ; PhD LSE 2015)
▷ Gustavo Gonzaga (Economics Department, PUC-Rio ; PhD Berkeley 1993)
▷ Carlos Tomei (Mathematics Department, PUC-Rio ; PhD NYU Courant, 1982)