Guilherme Jardim Duarte

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Education

The Wharton School of the University of Pennsylvania — Philadelphia, PA
Ph.D. in Operations, Information, and Decisions — Expected 2025
Research: causal inference, partial identification, transportability, sensitivity analysis

Princeton University — Princeton, NJ
M.A. in Politics — 2021

University of São Paulo — São Paulo, Brazil
Doctorate in Law — 2017

State University of São Paulo — Franca, Brazil
BA in Law — 2010

Professional Experience

Data Editor, Jota News — 2017–2019
Data Scientist, Itaú Bank — 2017
Data Scientist, O Estado de S. Paulo News — 2015–2017

Awards

Society for Political Methodology John T. Williams Dissertation Prize — 2024
Society for Causal Inference Tom Ten Have Award — 2024
Society for Political Methodology Poster Award (Methods) — 2023
Pulitzer Prize for Explanatory Reporting, "The Panama Papers" reporting — 2017
Data Journalism Awards Investigation of the Year, "The Panama Papers" — 2016

Research

Peer-Reviewed Articles

Guilherme Duarte, Noam Finkelstein, Dean Knox, Jonathan Mummolo, and Ilya Shpitser. 2023. "An Automated Approach to Causal Inference in Discrete Settings". *Journal of American Statistical Association* (Theory & Methods).

Robert Myles McDonnell, Guilherme Jardim Duarte, and Danilo Freire. 2019. "congressbr: An R Package for Analysing Data from Brazil's Chamber of Deputies and Federal Senate". *Latin American Research Review* (Research Note).

Submitted

Guilherme Duarte. 2024. "Identification of Single-Treatment Effects from Factorial Experiments".

In Progress

Guilherme Duarte. 2024. "A Unified Approach for Assessing Sensitivity to Violations of Causal Assumptions". Job Market Paper.

Kai Cooper, Guilherme Duarte, Luke Keele, Dean Knox, Kennedy Mattes, Jonathan Mummolo. 2024. "Evaluating the Validity and Robustness of Instrumental-Variable Analyses".

Guilherme Duarte. 2024. "Fast Algorithm for Closed-form Partial Identification."

Guilherme Duarte, and Dean Knox. 2023. "Imperfect Data and Optimal Allocation of Data-Collection Resources".

Guilherme Duarte. 2023. "A General Framework For Transportability".

Kai Cooper, Guilherme Duarte, Luke Keele, Dean Knox, and Jonathan Mummolo. 2022. "Learning From Imperfect Identification – Automating Causal Inference When Classic Assumptions Fail".

Grants

Guilherme Duarte, Haosen Ge, Jacob Kaplan, Dean Knox, Gregory Lanzalotto, Rachel Mariman, and Jonathan Mummolo. 2022. "Statistical Methodology for Measuring Racial Bias in Police Traffic Enforcement with Incomplete Information." Arnold Ventures. $1,205,813. Co-investigator.

Guilherme Duarte, Dean Knox, and Jonathan Mummolo. 2021. "An Automated Solution to Causal Inference in Discrete Settings." Analytics at Wharton, The Wharton School of the University of Pennsylvania. $22,575. Principal Investigator.

Software

autobounds. Python package that automatizes the solution of partial identification problems in causal inference.
congressbr. R package that returns tidy data from the APIs of the Brazilian Legislative Houses.

References

Dean Knox. Assistant Professor, Operations, Information, and Decisions Department, University of Pennsylvania. Email: dcknox@upenn.edu
Jonathan Mummolo. Associate Professor, Politics and Public Affairs, Princeton University. Email: jmummolo@princeton.edu
Ilya Shpitser. John C. Malone Associate Professor, Department of Computer Science, Johns Hopkins university. ilyas@cs.jhu.edu

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