

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 2024
<i>Research:</i> causal inference, partial identification, transportability, data fusion	
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

Pulitzer Prize for Explanatory Reporting. 2017. *The Panama Papers.* [Reporter](#)
Data Journalism Awards – Investigation of the Year. 2016. *The Panama Papers.*

Research

Peer-Reviewed Articles

Guilherme Duarte, Noam Finkelstein, Dean Knox, Jonathan Mummolo, and Ilya Shpitser. Forthcoming 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).

In Progress

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

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

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

Guilherme Duarte. 2020. "Estimation of Single-Treatment Effects from Factorial Experiments".

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

Nandita Mitra. Professor, Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania. nanditam@upenn.edu

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