

Guilherme Jardim Duarte

3730 Walnut Street
500 Jon M. Huntsman Hall
Philadelphia-PA 19104
United States

Email: gjduarte@upenn.edu
Homepage: duarteguilherme.github.io/
GitHub: github.com/duarteguilherme
Phone: (609) 436-0086

Education

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|---|-----------------------------------|
| The Wharton School of the University of Pennsylvania Ph.D. in Operations, Information, and Decisions <i>Research:</i> causal inference, partial identification, transportability, sensitivity analysis | Philadelphia, PA Expected 2025 |
| Princeton University M.A. in Politics | Princeton, NJ 2021 |
| University of São Paulo Doctorate in Law | São Paulo, Brazil 2017. |
| State University of São Paulo BA in Law | Franca, Brazil 2010 |

Professional Experience

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| 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. “Essays on Automated Causal Inference for Partial Identification, Data Fusion, and Sensitivity Analysis.”
Society for Causal Inference Tom Ten Have Award. 2024. “Fast Algorithm for Closed-form Partial Identification.”
Society for Political Methodology Poster Award (Methods). 2023. “A General Framework for Transportability.”
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. 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

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. “A Comprehensive Approach for Sensitivity Analysis”.

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. nanditam@upenn.edu

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

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