Guilherme Jardim Duarte

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Google Scholar:	http://bit.do/guilhermeduarte
GitHub:	http://github.com/duarteguilherme

Education

- Ph.D. in Decisions, The Wharton School of the University of Pennsylvania, *Expected 2025*.
  Research: Causality, Computational Social Sciences, Machine Learning, Statistical Learning.

- BA in Law, State University of São Paulo, 2010.

Professional Experience

- Data Editor: News website Jota, 2017–2019.
  Write and plan data-driven news stories on topics including judiciary, legislative, and electoral polls; analyze marketing data.

- Data Scientist: Itaú Bank, 2017.
  Marketing and credit modelling with random forests and gradient boosting; large-scale data engineering

- Data Scientist: Newspaper *O Estado de S. Paulo*. 2015-2017.
  Data analysis and reporting on topics including the Panama Papers.

Research

Peer-Reviewed Articles

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

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

- Guilherme Duarte. "Transportability Sharp Bounds". 2023.

- 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".

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 Federal Senate and Chamber of Deputies.

Skills

Software

- python, R, c++

Languages

- Portuguese (native), English (fluent), Spanish (intermediate)

References

- Dean Knox. Assistant Professor, OID – Wharton. Email: dcknox@upenn.edu

- Jonathan Mummolo. Assistant Professor, Department of Politics – Princeton University. Email: jmummolo@princeton.edu

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