

# Guilherme Jardim Duarte

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## Education

<b>The Wharton School of The University of Pennsylvania</b> Ph.D. in Operations, Information, and Decisions <i>Research:</i> causal inference, partial identification, transportability, data fusion	Philadelphia-PA Expected 2024.
<b>University of São Paulo</b> Doctorate in Law	São Paulo-Brazil 2017.
<b>State University of São Paulo</b> BA in Law	Franca-Brazil 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, 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. 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 Federal Senate and Chamber of Deputies.

## References

Dean Knox. Assistant Professor, OID – Wharton. University of Pennsylvania. Email: [dcknox@upenn.edu](mailto:dcknox@upenn.edu)

Jonathan Mummolo. Associate Professor, Princeton University. Email: [jmummolo@princeton.edu](mailto:jmummolo@princeton.edu)

Nandita Mitra. Professor of Biostatistics, University of Pennsylvania. [nanditam@upenn.edu](mailto:nanditam@upenn.edu)

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