Guilherme Jardim Duarte

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Education

- Ph.D. in Decisions, The Wharton School of the University of Pennsylvania, *Expected 2024*.
  Research: Causality, Computational Social Sciences, Machine Learning, Statistical Learning.

- Doctorate in Law, University of São Paulo, 2017.
  Thesis: *De Jure and De Facto Judicial Independence of Supreme and Constitutional Courts: a Comparative Study*

- 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.

Awards

- *Pulitzer Prize for Explanatory Reporting*. 2017. *The Panama Papers*. Reporter

- *Data Journalism Awards* – Investigation of the Year. 2016. *The Panama Papers*. Reporter

Research

Peer-Reviewed Articles

- congressbr: An R Package for Analysing Data from Brazil's Chamber of Deputies and Federal Senate. Joint with Robert McDonnell and Danilo Freire. *Latin American Research Review*, 2019, 54 (2).

Working Papers and Presentations

- ε-sharp Causal Bounds: Principled Inferences with Incomplete Data. Joint with Dean Knox and Jonathan Mummolo. 2021.

- Structural Causal Models and Factorial Experiments: Identification Problems and Applications in Social Sciences. 2020.

- Measuring Support For the Government in the Brazilian Congress: a Bayesian IRT Approach. Presented at Latin American Polmeth. Bogotá. 2018

- How Many Justice Does it Take to Control the Court? A New Formal Argument for Understanding Judicial Independence. Presented at MPSA Conference. Chicago. 2018.

Software

- congressbr. R package that returns tidy data from the APIs of the Brazilian Federal Senate and Chamber of Deputies. Joint with Robert McDonnell and Danilo Freire.

Teaching

- Coordinator, How to cover artificial intelligence and understand its impact on journalism. MOOC. Knight Center for Journalism in the Americas - University of Texas at Austin. 2018.

- Teaching Assistant, Refresher Course in Mathematics. Professor Glauco Peres da Silva, IPSA-USP Summer School, 2015.

- Teaching Assistant, Mathematics for Social Scientists. Professor Glauco Peres da Silva, IPSA-USP Summer School, 2014.

- Teaching Assistant, Methods in Social Sciences III (Undergraduate). Professor Lorena Guadalupe Barberia, USP – Department of Political Science, 2013.

Skills

Software

- R, python, javascript, d3.js, SQL, Stan, c++, Git/Github, Linux, julia, rust, tensorflow, keras, LaTeX, Elasticsearch, MongoDB, haskell.

Languages

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

References

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

- Elias Bareinboim. Associate Professor, Computer Science – Columbia University. Email: eb@cs.columbia.edu

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

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