# Curriculum Vitae


Rafael Campello de Alcantara

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`https://rafaelcalcantara.github.io/`


## Areas of interest

Causal inference, machine learning, bayesian statistics, structural econometrics, innovation economics, industrial organization

## Professional appointments

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| 2024-present | Postdoctoral fellow<br>The University of Texas at Austin<br>McCombs School of Business |

## Education

### Formal education

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|---|---|
| 2020-2024 | PhD in Business Economics<br>Insper - Institute of Education and Research, São Paulo, Brazil<br>Dissertation: A Constrained BART Model<br>For Identifying Heterogeneous Treatment Effects<br>In Regression Discontinuity Designs<br>Advisor: Hedibert Freitas Lopes |
| 2018-2020 | MSc in Applied Economics<br>Universidade de São Paulo, USP, São Paulo, Brazil<br>Thesis: Estimation of the R&D Elasticity in Brazil:<br>An Unobserved Common Factor Approach<br>Advisor: Sérgio Kannebley Júnior |
| 2013-2017 | BA in Economics<br>Universidade de Brasília, UnB, Brasília, Brazil<br>Advisor: Andrea Felippe Cabello |

### Complementary education

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| 2024 | Introduction to Python (4h)<br>DataCamp, DataCamp, Inc. |
| 2020 | Introduction to SQL (4h)<br>DataCamp, DataCamp, Inc. |
| 2020 | Introduction to Git (4h)<br>DataCamp, DataCamp, Inc. |
| 2017 | Tutoring program in R (60h)<br>Universidade de Brasília, UnB, Brasília, Brazil |
| 2017 | Introduction to R (4h)<br>DataCamp, DataCamp, Inc. |

# Experience

## Research

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| 2023 | Visiting scholar<br>School of Mathematical and Statistical Sciences, Arizona State University<br>Sponsor: Paul Richard Hahn |
| 2022 | Insper, São Paulo, Brazil<br>Research Assistant<br>Supervisors: Naércio Aquino Menezes Filho, Camila de Freitas Souza Campos |
| 2016-2017 | Universidade de Brasília, UnB, Brasil<br>Member of the editorial board of the student journal "O Eco da Graduação"<br>Coordinator: Andrea Felippe Cabello |
| 2016-2017 | Universidade de Brasília, UnB, Brasil<br>Scientific initiation program: "Analysis of Net Neutrality Policies and their Impacts"<br>Supervisor: Andrea Felippe Cabello |

## Teaching

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| 2023 | Insper, São Paulo, Brazil<br>Teaching assistant of Bayesian Econometrics<br>Professor: Hedibert Freitas Lopes |
| 2022 | Insper, São Paulo, Brazil<br>Teaching assistant of Bayesian Learning<br>Professor: Hedibert Freitas Lopes |
| 2019 | Universidade de São Paulo, USP, São Paulo, Brazil<br>Teaching assistant of Macroeconomics 1<br>Professor: Rudinei Toneto Júnior |
| 2019 | Universidade de São Paulo, USP, São Paulo, Brazil<br>Teaching assistant of Introduction to Macroeconomics<br>Professor: Rudinei Toneto Júnior |
| 2015 | Universidade de Brasília, UnB, Brasília, Brasil<br>Teaching assistant of Economic Formation of Brazil<br>Professor: Flávio Rabelo Versiani |

# Work in progress

1. *Searching for Parallel Trends with Regression Trees*, with Andrew Herren and P. Richard Hahn

# Preprints/submitted

1. **ALCANTARA, R.**; HAHN, P.R.; CARVALHO, C.; LOPES, H. Learning Conditional Average Treatment Effects in Regression Discontinuity Designs using Bayesian Additive Regression Trees

2. **ALCANTARA, R.**; WANG, M.; HAHN, P.R.; LOPES, H. Modified BART for Learning Heterogeneous Effects in Regression Discontinuity Designs

# Published papers

1. **ALCANTARA, R.** ; KANNEBLEY JR, S. Elasticidade de P&D na Indústria Brasileira e Transbordamentos - Uma abordagem de fatores comuns não-observados. Economia Aplicada (Accepted publication)

2. **ALCANTARA, R.** Análise de políticas de neutralidade de rede e seus impactos. O Eco da Graduação, v. 2, p. 63-73, 2017

3. CABELLO, A. F. ; **ALCANTARA, R.** ; GOMES, Y. C. ; WILBERT, M.D. ; RAMOS, A. A. ; GOMES, E. M. ; KUDIESS, G. ; SANTOS, A. ; CARNEIRO, C. A. B. D. ; RIBEIRO, P. V. A História das Origens do Departamento de Economia da Universidade de Brasília. O Eco da Graduação, v. 1, p. 1-19, 2016.

# Scientific Presentations

## Conference Talks

1. *A Constrained BART Model for Identifying Heterogeneous Treatment Effects in regression discontinuity design* (with Meijia Wang, P. Richard Hahn, Hedibert Lopes), LACEA-LAMES Annual Meeting, November 2024
2. *A Modified BART Prior for Regression Discontinuity Designs* (with Meijia Wang, P. Richard Hahn, Hedibert Lopes), NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics, August 2023
3. *Bayesian Additive Regression Trees For Regression Discontinuity Designs* (with Hedibert Lopes), 44th Meeting of the Brazilian Econometric Society, December 2022

# Technical skills

Advanced R, intermediate Stata, basic SQL, basic Python

# Language

Native Portuguese, fluent English