

Curriculum Vitae

Rafael Campello de Alcantara

The University of Texas at Austin
rafael.campellodealcantara@mcombs.utexas.edu
<https://rafaelcalcantara.github.io/>

Areas of interest

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

Professional appointments

2024-present Postdoctoral fellow
The University of Texas at Austin
McCombs School of Business

Education

Formal education

2020-2024 PhD in Business Economics
Insper - Institute of Education and Research, São Paulo, Brazil
Dissertation: A Constrained BART Model
For Identifying Heterogeneous Treatment Effects
In Regression Discontinuity Designs
Advisor: Hedibert Freitas Lopes

2018-2020 MSc in Applied Economics
Universidade de São Paulo, USP, São Paulo, Brazil
Thesis: Estimation of the R&D Elasticity in Brazil:
An Unobserved Common Factor Approach
Advisor: Sérgio Kannebley Júnior

2013-2017 BA in Economics
Universidade de Brasília, UnB, Brasília, Brazil
Advisor: Andrea Felipe Cabello

Complementary education

2024 Introduction to Python (4h)
DataCamp, DataCamp, Inc.

2020 Introduction to SQL (4h)
DataCamp, DataCamp, Inc.

2020 Introduction to Git (4h)
DataCamp, DataCamp, Inc.

2017 Tutoring program in R (60h)
Universidade de Brasília, UnB, Brasília, Brazil

2017 Introduction to R (4h)
DataCamp, DataCamp, Inc.

Experience

Research

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

Teaching

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

Work in progress

1. *Searching for Parallel Trends: Discovering Diff-in-Diff Estimators*, with Andrew Herren, Palak Jain, P. Richard Hahn, Jared Murray

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