Marcus L. Nascimento

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Getulio Vargas Foundation
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Citizenship.: Brazilian/Italian

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Professional Experience

Getulio Vargas Foundation — Rio de Janeiro, Brazil
Postdoctoral Researcher — Oct 2024–Current

José Luiz Egydio Setúbal Foundation — São Paulo, Brazil
Research Affiliate — Oct 2024–Current
Research Scientist — Sep 2023–Sep 2024

Rio de Janeiro City Hall — Rio de Janeiro, Brazil
Advisor — Jan 2021–Oct 2024

Accenture — Rio de Janeiro, Brazil
Data Science Analyst — Mar 2018–Feb 2019

Accenture — Rio de Janeiro, Brazil
Data Science Assistant — Sep 2015–Dec 2015

Education

Federal University of Rio de Janeiro — Rio de Janeiro, Brazil
D.Sc. in Statistics — 2019–2024

Federal University of Rio de Janeiro — Rio de Janeiro, Brazil
M.Sc. in Statistics — 2016–2017

Federal University of Rio de Janeiro — Rio de Janeiro, Brazil
B.Sc. in Actuarial Science — 2011–2015

Research Interests

- **Method:** survey statistics and quantile regression
- **Application:** health and social sciences

Other Experience

Federal University of Rio de Janeiro — Rio de Janeiro, Brazil
Research Assistant — Mar 2023–Aug 2023

– Project: Machine learning methods for predicting willingness to pay for tax debtors in Rio de Janeiro.

Getulio Vargas Foundation — Rio de Janeiro, Brazil
Research Assistant — Jan 2022–Aug 2023

– Project: Machine learning methods for predicting preventable neonatal mortality in Brazil.

Institute for Applied Economic Research Rio de Janeiro, Brazil
Research Assistant Apr 2019–Dec 2020

– Project: Economic Evaluation of Social Programs.

Institute for Applied Economic Research Rio de Janeiro, Brazil
Research Assistant Mar 2017–Dec 2017

– Project: The economic impact of broadband expansion in Brazilian municipalities.

Work in Progress

Under review

Nascimento, Marcus L. and Kelly M. Gonçalves. "A Bayesian approach to multiple-output quantile regression analysis under informative sampling".

Ramos, Antonio P., Fábio Caldieraro, Marcus L. Nascimento, and Raphael Saldanha. "Reducing Inequalities by Using an Unbiased Machine Learning Approach to Identify Births with the Highest Risk of Preventable Neonatal Deaths".

In preparation

Nascimento, Marcus L. "An Expectation-Maximization algorithm for noncrossing Bayesian quantile regression".

Ramos, Antonio P., Fabio Caldierado, Chad Hazlett, and Marcus L. Nascimento. "One pandemic is not like the other: Contrasting COVID-19 against a New Pandemic".

Publications

Statistics

Nascimento, Marcus L. and Kelly M. Gonçalves. "Bayesian quantile regression models for complex survey data under informative sampling". *Journal of Survey Statistics and Methodology*, vol. 12, no. 4, 2024, pp. 1105–1130.

Cross-disciplinary

Nascimento, Marcus L. and Leonardo M. Barreto. "Improving crime count forecasts in the city of Rio de Janeiro via reconciliation". *Security Journal*, vol. 37, no. 4, 2024, pp. 1597–1618.

Pre-Doctoral

Nascimento, Marcus L., Kelly M. Gonçalves, and Mario Jorge Mendonça. "Spatio-temporal instrumental variables regression with missing data: A Bayesian approach". *Computational Economics*, vol. 62, no. 1, 2023, pp. 27–49.

Nascimento, Marcus L. and Carlos Antonio Abanto-Valle. "Flexible robust mixture regression modeling". *REVSTAT, Statistical Journal*, vol. 20, no. 1, 2022, pp. 101–115.

Nascimento, Marcus L. and Kelly M. Gonçalves. “Bayesian variable selection in quantile regression with random effects: an application to Municipal Human Development Index”. *Journal of Applied Statistics*, vol. 49, no. 13, 2022, pp. 3436–3450.

Nascimento, Marcus L., Ralph S. Silva, Mario Jorge Mendonça, and Amaro O. Pereira. “Estimating the efficiency of Brazilian electricity distribution utilities”. *Journal of Applied Statistics*, vol. 49, no. 8, 2022, pp. 2157–2166.

Nascimento, Marcus L., Kalinca L. Becker, and Mario Jorge Mendonça. “Implications of Brazilian Institutional Guidelines on Educational Efficiency”. *Economía, the journal of LACEA*, vol. 21, no. 1, 2020, pp. 147–168.