

Marcus L. Nascimento

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PROFESSIONAL EXPERIENCE

José Luiz Egydio Setúbal Foundation Research Scientist	São Paulo, Brazil 2023–Current
Rio de Janeiro City Hall Advisor	Rio de Janeiro, Brazil 2021–Current
Accenture Data Science Analyst	Rio de Janeiro, Brazil 2018–2019
Accenture Data Science Assistant	Rio de Janeiro, Brazil 2015

EDUCATION

Federal University of Rio de Janeiro D.Sc. in Statistics – Dissertation: Bayesian quantile regression analysis of complex survey data under informative sampling.	Rio de Janeiro, Brazil 2019–2024
Federal University of Rio de Janeiro M.Sc. in Statistics – Dissertation: Bayesian inference for finite mixture models of asymmetric distributions.	Rio de Janeiro, Brazil 2016–2017
Federal University of Rio de Janeiro B.Sc. in Actuarial Science	Rio de Janeiro, Brazil 2011–2015

RESEARCH INTERESTS

- **Method:** survey analysis, quantile regression, causal inference with observational data
- **Application:** health and social sciences

OTHER EXPERIENCE

Federal University of Rio de Janeiro Research Assistant – Project: Machine learning methods for predicting willingness to pay for tax debtors in Rio de Janeiro.	Rio de Janeiro, Brazil 2023
Getulio Vargas Foundation Research Assistant – Project: Machine learning methods for predicting preventable neonatal mortality in Brazil.	Rio de Janeiro, Brazil 2022–2023

Institute for Applied Economic Research

Research Assistant

- Project: Economic Evaluation of Social Programs.

Rio de Janeiro, Brazil

2019–2020

Institute for Applied Economic Research

Research Assistant

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

Rio de Janeiro, Brazil

2017

WORK IN PROGRESS

UNDER REVIEW

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

Nascimento, Marcus L. and Kelly M. Gonçalves. “Bayesian quantile regression models for bounded count data 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., Heudson T. Mirandola, Ralph S. Silva, and Leon U. Barboza. “A decision support system for tax arrears recovery based on machine learning survival algorithms”.

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*, to appear.

CROSS-DISCIPLINARY

Nascimento, Marcus L. and Leonardo M. Barreto. “Improving crime count forecasts in the city of Rio de Janeiro via reconciliation”. *Security Journal*, to appear.

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.