

Marcus L. Nascimento

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EDUCATION

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

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

WORKING PAPERS

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

WORK IN PROGRESS

- 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”.

Ramos, Antonio P., Fábio Caldieraro, 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*, to appear.

HEALTH & SOCIAL SCIENCES

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.