

# Marcus L. Nascimento

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## EDUCATION

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

## EXPERIENCE

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

## WORKING PAPERS

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- 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

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- 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

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### 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

### 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.