

Marcus L. Nascimento

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Getulio Vargas Foundation
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ACADEMIC APPOINTMENTS

Getulio Vargas Foundation
Postdoctoral Researcher

Rio de Janeiro, Brazil
Oct 2024–Current

José Luiz Egydio Setúbal Foundation
Research Affiliate
Research Scientist

São Paulo, Brazil
Oct 2024–Current
Sep 2023–Sep 2024

EDUCATION

Federal University of Rio de Janeiro
D.Sc. in Statistics

Rio de Janeiro, Brazil
2019–2024

Federal University of Rio de Janeiro
M.Sc. in Statistics

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 statistics, quantile regression, categorical data
- **Application:** public health, medicine, sustainable development

PUBLICATIONS

STATISTICS

Nascimento, Marcus L. and Kelly M. Gonçalves. “A Bayesian approach to multiple-output quantile regression analysis under informative sampling”. *Accepted at the Journal of Survey Statistics and Methodology*,

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.

HEALTH & SOCIAL SCIENCES

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” *Population Health Metrics*, vol. 23, no. 1, p. 59.

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.

SOFTWARE

Taborda, Tomás R., Johnatan C. Jiménez, Marcus L. Nascimento, and Kelly C. M. Gonçalves. bayesQRsurvey: Bayesian Quantile Regression Models for Complex Survey Data Analysis. R package version 0.1.4, 2025.

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.

WORKING PAPERS

Nascimento, Marcus L. “An Expectation-Maximization algorithm for noncrossing Bayesian quantile regression analysis under informative sampling”.

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

FELLOWSHIPS AND AWARDS

- Nota 10 Postdoctoral Fellowship, FAPERJ 2025–2026

GRANTS

- FAPERJ Grant E-26/210.653/2024 (Co-Investigator) 2024–2026
 - Quantile regression models: application software development and practice

TEACHING

- **Instructor** at Getulio Vargas Foundation
Time series analysis (MBA) 2025
- **Instructor** at Ibmec
Econometrics I (BSc) 2025

WORK EXPERIENCE

Rio de Janeiro City Hall
Advisor

Rio de Janeiro, Brazil
Jan 2021–Oct 2024

Accenture
Data Science Analyst

Rio de Janeiro, Brazil
Mar 2018–Feb 2019

Accenture
Data Science Assistant

Rio de Janeiro, Brazil
Sep 2015–Dec 2015