

# Marcus L. Nascimento

School of Applied Mathematics (EMAp)  
Getulio Vargas Foundation  
Rio de Janeiro, RJ 01228-200, Brazil  
Citizenship: Brazilian/Italian

marcus.lavagnole@fgv.br  
github.com/marcuslavagnole

## PROFESSIONAL EXPERIENCE

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<b>Getulio Vargas Foundation</b> Postdoctoral Researcher	Rio de Janeiro, Brazil Oct 2024–Current
<b>José Luiz Egydio Setúbal Foundation</b> Research Affiliate Research Scientist	São Paulo, Brazil Oct 2024–Current Sep 2023–Sep 2024
<b>Rio de Janeiro City Hall</b> Advisor	Rio de Janeiro, Brazil Jan 2021–Oct 2024
<b>Accenture</b> Data Science Analyst	Rio de Janeiro, Brazil Mar 2018–Feb 2019
<b>Accenture</b> Data Science Assistant	Rio de Janeiro, Brazil Sep 2015–Dec 2015

## EDUCATION

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<b>Federal University of Rio de Janeiro</b> D.Sc. in Statistics	Rio de Janeiro, Brazil 2019–2024
<b>Federal University of Rio de Janeiro</b> M.Sc. in Statistics	Rio de Janeiro, Brazil 2016–2017
<b>Federal University of Rio de Janeiro</b> B.Sc. in Actuarial Science	Rio de Janeiro, Brazil 2011–2015

## OTHER EXPERIENCE

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<b>Federal University of Rio de Janeiro</b> Research Assistant – Project: Machine learning methods for predicting willingness to pay for tax debtors in Rio de Janeiro.	Rio de Janeiro, Brazil Mar 2023–Aug 2023
<b>Getulio Vargas Foundation</b> Research Assistant – Project: Machine learning methods for predicting preventable neonatal mortality in Brazil.	Rio de Janeiro, Brazil Jan 2022–Aug 2023
<b>Institute for Applied Economic Research</b> Research Assistant – Project: Economic Evaluation of Social Programs.	Rio de Janeiro, Brazil Apr 2019–Dec 2020
<b>Institute for Applied Economic Research</b> Research Assistant – Project: The economic impact of broadband expansion in Brazilian municipalities.	Rio de Janeiro, Brazil Mar 2017–Dec 2017

## WORK IN PROGRESS

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### STATISTICS

Nascimento, Marcus L. and Gustavo S. Ferreira. “Mapping household food (in)security from both aggregated and disaggregated survey-based areal data”.

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

### HEALTH & SOCIAL SCIENCES

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”.

## PUBLICATIONS

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### 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”. *Accepted at Population Health Metrics*,

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.