

# Renato Panaro

## STATISTICIAN

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### Position

#### Universidade Federal de São Paulo

PHILOSOPHY DOCTOR IN STATISTICS (IN PROGRESS)

- Funding Agency: CAPES Improvement Coordination

São Paulo, Brazil

Mar. 20-present

### Education

#### Universidade Federal de Minas Gerais

MASTER OF SCIENCE IN STATISTICS

- WAM: 87/100
- Dissertation: spsurv An R package for semi-parametric survival analysis.
- Funding Agency: Fundação Christiano Ottoni
- Advised by Vinícius Mayrink and Fábio Demarqui

Minas Gerais, Brazil

Mar. 2018 - Feb. 2020

Outstanding performance (> A-):

- Statistical Inference (DIP EST825U)
- Stat Methods of Reliability and Survival Analysis (DIP EST863U)
- Computational Methods Applied to Statistics (DIP EST865U)
- Mathematical analysis (DIP EST865B)

#### Universidade Federal Fluminense

BACHELOR OF SCIENCE IN STATISTICS

- WAM: 76/100
- Term paper: Modelagem e Previsão da Inflação Anual Efetiva medida pelo IPCA.
- Advised by Ana Beatriz Fonseca and Victor Eduardo Duca

Rio de Janeiro, Brazil

Apr. 2013 - Dec. 2017

Outstanding performance (>90/100):

- Sources of Information (GET00134)
- Data Visualization (GET00183)
- Applied Statistics (GET00128)
- Scientific Research Methodology (GET00137)
- Multivariate Analysis (GET00126)
- Time Series Analysis (GET00127)

#### University of Wisconsin Platteville

BRAZILLIAN SCIENTIFIC MOBILITY PROGRAM

- GPA: 3.4/4
- Funding Agency: CAPES Improvement Coordination

Wisconsin, United States

Jun. 2014 - May 2015

Outstanding performance (> A-):

- Global Business (BUSADMIN 1300)
- Management Accounting (ACCTING 2020)
- Data Analysis & Decision Making (BUSADMIN 2340)
- Principles of Macroeconomics (ECONOMIC 2130)
- US Culture (ESL 134)
- Acad Listening and Note-Taking (ESL 151)
- Acad Speaking (ESL 152)
- Special Topics (ESL 155)

## Experience

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### RESEARCH

#### Decision Support and Reliability Lab, LADEC

RESEARCH ASSISTANT (FUNDING AGENCY: FUNDAÇÃO CHRISTIANO OTTONI)

School of Engineering-UFMG

Oct. 2018 - Feb. 2020

- R&D project with CEMIG-D
- Supervisors include Marcelo Azevedo Costa and Vinícius Diniz Mayrink

Contributed to the development of an R package to ease Bayesian Structured Equation Modelling via RStan. The P&D D636 project consisted of Computational statistical modeling of the CEMIG-D business model using databases and technical knowledge.

#### Documentation Active & Intelligent Design Laboratory, ADDLABS

RESEARCH INTERN (FUNDING AGENCY: FUNDAÇÃO EUCLIDES DA CUNHA)

IC-UFF

Oct. 2017 - Dez. 2017

- R&D project with Shell Brasil
- Supervisors include Rodrigo Salvador Monteiro and Ludmilla da Silva Viana Jacobson

Contributed with consistency checks, data granularity reduction and time series visualizations of structured in large datasets (17 million). The ADDSSI project aimed to research the use of artificial intelligence techniques to support the diagnosis of flow and pressure control anomalies in a water injection system of a UEP.

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### PROFESSIONAL

#### Planejamento e Pesquisa Ltda, GPP

INTERN

Niterói, Rio de Janeiro

Jan. 2016 - Mar. 2018

- Supervisors include Adriano Von Pfuhr Rodrigues and Francisco Guimarães
- Consulting with Naturgy Energy Group S.A., ILOS, CASSI, Previ and local politicians

Contributed with analytics support to electoral and market research, outcome reporting and data consistency supervision using SAS programming.

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### VOLUNTEER WORK

- Evaluation of the scientific merit of the presentations: 'Survival Analysis Framework for Early Prediction of Student Abandonment' and 'Data Mining for Direct Marketing: Problems and Solutions' in the seminar discipline of the UFMG Statistics Department.
- Evaluation of the scientific merit of five presentations at VII FEBRAT, a scientific fair that promotes the dissemination of works developed by students of Basic Education and Vocational and Technological Education.
- Taught two classes in the discipline of introduction to computational statistics of the UFMG Statistics Department. Topic: Jackknife and bootstrap resampling methods.

## Achievements

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### COURSES AND LICENSES

2018 Accredited Statistician  
2018 Hands on Deep Learning extension  
2020 Data visualization – the art/skill cocktail

CONRE-2

DCC-UFMG

MPIDR

### R PACKAGES

2020 spsurv  
2020 bsem

CRAN R package

CRAN R package

### CONGRESS CONTRIBUTED PAPERS

1. Santos AL, da S. L. dos, Patricio SC, & RV, P. (2019). Classificador ensemble: Uma abordagem não paramétrica aplicada à detecção de diabetes. *Anais Do Seminário Internacional de Estatística Com R*, 4(2),.na.character.
2. Patrício SC, dos S. A., Panaro RV, & Silva PV. (2019). Change point estimation in segmented regression model using rstan: An application to exercise fisiology data. *Anais Do Seminário Internacional de Estatística Com R*, 4(1), 15.
3. Panaro RV, dos S. A., & SC, P. (2019). Semiparametric survival analysis via bernstein polynomials. *Anais Do Seminário Internacional de Estatística Com R*, 4(2),.na.character.
4. Panaro RV, M. V., Patricio SC, & MA, C. (2019). Predictive modeling of economic and financial monitoring of the brazilian electricity regulatory agency (aneel). *Book of Abstracts of the 2nd Conference on Statistics and Data Science*,.na.character(.na.character),.na.character.
5. Panaro RV, M. V., & MA, C. (2020). Structural equation modeling with time dependence: An application comparing brazilian energy distributors. *15th Brazilian Meeting of Bayesian Statistics*,.na.character(.na.character),.na.character.

### PUBLISHED

Mayrink, V. D., Panaro, R. V., & Costa, M. A. (2020). Structural equation modeling with time dependence: an application comparing Brazilian energy distributors. *AStA Advances in Statistical Analysis*, 1-31.

## References

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Ana Beatriz Fonseca, Ph.D.  
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