

# Renato Valladares Panaro

STATISTICIAN

Belo Horizonte, MG

+55 21 9 97188 7955 | [renatovp@ufmg.br](mailto:renatovp@ufmg.br) | [rvpanaro](https://www.linkedin.com/in/rvpanaro) | [rvpanaro](https://www.github.com/rvpanaro)

## Education

### Federal University of Minas Gerais

Minas Gerais, Brazil

MS C IN STATISTICS

Mar. 2018 - Feb. 2020

- Outstanding performance (> 90) for: Statistical Inference (DIP EST825U), Stat. Methods of Reliability and Survival Analysis (DIP EST863U), Computational Methods Applied to Statistics (DIP EST865U) and Mathematical analysis (DIP EST865B)
- Contributing with an open source R package to allow Semiparametric Survival Analysis using Bernstein Polynomial in R

### Federal Fluminense University

Rio de Janeiro, Brazil

BS C IN STATISTICS

Apr. 2013 - Dez. 2017

- WAM of 76
- Term paper: Modeling and Forecasting Effective Annual Inflation Measured by IPCA.
- Outstanding performance for: Sources of Information (GET00134), Data Visualization (GET00183), Applied Statistics (GET00128), Scientific Research Methodology (GET00137), Multivariate Analysis (GET00126) and Time Series Analysis (GET00127)

### University of Wisconsin Platteville

Wisconsin, United States

BRAZIL SCIENTIFIC MOBILITY PROGRAM

Jun. 2014 - May 2015

- GPA: 3.413
- Outstanding performance for: Global Business (BUSADMIN 1300), Management Accounting (ACCTING 2020), Data Analysis & Decision Mkg (BUSADMIN 2340) and Principles of Macroeconomics (ECONOMIC 2130)
- Attended Summer ESL classes with outstanding performance for: US Culture (ESL 134), Acad Listening and Note-Taking (ESL 151), Acad Speaking (ESL 152) and Special Topics (ESL 155)

## Experience

### Decision Support and Reliability Lab, LADEC

School of Engineering-UFMG

RESEARCH ASSISTANT (FUNDAÇÃO CHRISTIANO OTTONI)

Oct. 2018 - Present

- Supervisors include Marcelo Azevedo Costa and Vinícius Diniz Mayrink
- Consulting project with Companhia Energética de Minas Gerais, CEMIG
- Contributing to the development of an open source package to ease Bayesian Structured Equation Modelling via RStan and Shiny
- The project consisted of Computational statistical modeling of the CEMIG-D business model using databases and technical knowledge (P&D D636)

### Documentation Active & Intelligent Design Laboratory, ADDLABS

IC-UFF

RESEARCH INTERN (FUNDAÇÃO EUCLIDES DA CUNHA)

Oct. 2017 - Dez. 2017

- Supervisors include Rodrigo Salvador Monteiro and Ludmilla da Silva Viana Jacobson
- Consulting project with Shell Brasil
- 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. In addition, it offers a dynamic model of the injection system of an FPSO and allows simulations of the behavior of its equipment and its control loop, comparing the results with the actual measurements loaded directly from the process plant. (ADDSSI)

### Planejamento e Pesquisa Ltda, GPP

Niterói, Rio de Janeiro

INTERN

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
- Analytics support to electoral and market research, outcome reporting and data consistency supervision

### Feira Brasileira de Colégios de Aplicação e Escolas Técnicas, VII FEBRAT

Pedagogical Center-UFMG,

VOLUNTEER

October 23, 2019

- Evaluation of the scientific merit of the papers submitted to the event.
- VII FEBRAT is a scientific fair that promotes the dissemination of works developed by students of Basic Education and Vocational and Technological Education under the guidance of teachers from different areas of knowledge. The theme of the 2019 edition is "Bioeconomics: Diversity and Wealth for Sustainable Development".

# Achievements

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## CERTIFICATES AND LICENSES

2019	TOEFL iBT (score 96)	ETS Global
2018	Accredited Statistician	CONRE-2
2018	Hands on Deep Learning course extension	DCC-UFGM
2018	Rn00bs founder	Rn00bs

## SCHOLARSHIPS

2014	International experience through one year scholarship granted by Higher Education Improvement Coordination (CAPES) at UWP.	UWP
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# Technical Skills

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## Analytical

STATISTICAL MODELLING, BAYESIAN STATISTICS, SURVIVAL ANALYSIS AND STRUCTURAL EQUATION MODELLING

## Programming

R (ADVANCED), LATEX (ADVANCED), STAN (ADVANCED), HTML, TOML, CSS, JAVASCRIPT, SQL, PYTHON, SAS AND MQL

## Python libraries

PANDAS, NUMPY, MATPLOTLIB AND SEABORN, SCIKIT-LEARN

## Tools

GIT, RSTUDIO, JUPYTER, SAS 9.0, MYSQL WORKBENCH AND METATRADER 5

# Presentations

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2019	Semiparametric Survival Analysis via Bernstein Polynomials	SER IV
2019	Predictive modeling of economic and financial monitoring of The Brazilian Electricity Regulatory Agency (ANEEL)	CSDS
2019	Bernstein Polynomial based Proportional Hazards regression	WASA

# Papers

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1. Santos Lima, A dos, SC Patricio, LAC da Silva, and RV Panaro (2019). CLASSIFICADOR ENSEMBLE: UMA ABORDAGEM NÃO PARAMÉTRICA APLICADO À DETECÇÃO DE DIABETES. *Anais do Seminário Internacional de Estatística com R* **4**(2).
2. Patrício, SC, RV Panaro, A dos Santos Lima, and PV da Silva (2019). CHANGE POINT ESTIMATION IN SEGMENTED REGRESSION MODEL USING RSTAN: AN APPLICATION TO EXERCISE PHYSIOLOGY DATA. *Anais do Seminário Internacional de Estatística com R* **4**(1), 15.
3. Panaro, RV, A dos Santos Lima, and SC Patricio (2019). SEMIPARAMETRIC SURVIVAL ANALYSIS VIA BERNSTEIN POLYNOMIALS. *Anais do Seminário Internacional de Estatística com R* **4**(2).