

# Magno Tairone de Freitas Severino *December 25, 1992*

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## Education

- University of São Paulo (USP)** SÃO PAULO, BRAZIL  
**PhD in Statistics** *Mar '18 – present*  
Advisor: Dr Florencia Leonardi.
- Federal University of Minas Gerais (UFMG)** BELO HORIZONTE, BRAZIL  
**Master in Statistics** *Mar '16 – Feb '18*  
Dissertation title: Extending JAGS for spatial data;  
Defense date: March 22, 2018;  
Study emphases: Spatial Statistics and Bayesian inference;  
Advisors: Dr Vinícius Diniz Mayrink and Dr Fábio Nogueira Demarqui.
- Federal University of Minas Gerais (UFMG)** BELO HORIZONTE, BRAZIL  
**Bachelor degree in Computer Math** *Mar '11 – Dec '15*  
Study emphases: algorithms and data structures, linear algebra, and real analysis;
- Queen Mary University of London (QMUL)** LONDON, UNITED KINGDOM  
**Study abroad program** *Sep '13 – Sep '14*  
Enrolled in courses on Statistical Methods in Economics, Introduction to Mathematical Computing, Convergence and Continuity, Differential and Integral Analysis, Mathematical Writing, and Probability Models. Including a Summer research project at the School of Mathematical Sciences regarding Monte Carlo methods for numerical integration.
- Federal Center of Technological Education of Minas Gerais (CEFET-MG)** BELO HORIZONTE, BRAZIL  
**Technical license in Industrial Computing** *Apr '08 – Dec '10*  
Study emphases: programming languages, computer networks, digital systems and robotics.
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## Experience

- University of São Paulo (USP)** BELO HORIZONTE, BRAZIL  
**Class monitor** *Jan '19 – present*  
Class monitor in the undergraduate course of Combinatorial analysis, probability and applications.
- Class monitor** *Aug '18 – Dec '18*  
Class monitor in the undergraduate course of Introduction to Statistics in Pharmacy. Advisor: Dr Vladimir Belitsky.
- Federal University of Minas Gerais (UFMG)** BELO HORIZONTE, BRAZIL  
**Stats4Good group** *Mar '16 – present*  
Data analysis and visualization of the Brazilian federal government budget with its public agencies and its personnel (data taken from Portal da Transparência webpage).
- Class monitor** *Mar '17 – Jul '17*  
Class monitor in the undergraduate course of Introduction to Bootstrap. Department of Statistics. Advisor: Dr Glaura Franco.
- Extension program** *Sep '12 – Mar '13*  
Pre-Calculus: development of an online platform to support first-year students in the preparation for Calculus studies. Department of Mathematics. Advisor: Dr Alberto Sarmiento.
- Undergraduate research student** *Apr '13 – Sep '13*  
Mathematical models of blood flow based on the Navier Stokes equations. Department of Mathematics. Advisor: Dr Denise Burgarelli.

**Undergraduate research student***Mar '12 – Mar '13*

Implementation of several numeric methods for computing eigenvalues and eigenvectors using C++. Department of Mathematics. Advisor: Dr Denise Burgarelli.

**DTI digital***BELO HORIZONTE***Software developer intern***Mar '11 – Mar '12*

Programming languages: Java and C#.

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**Fellowships and awards****Research fellowship***Mar '18 – present*

Coordination for the Improvement of Higher Level Education Personnel (CAPES), Brazil.

**Best Master's thesis***Set '18*

Top four best Master's thesis presented between 2016-2018 by the 23rd National Symposium on Probability and Statistics (SINAPE), Brazil.

**Research fellowship***Mar '16 – Feb '18*

Coordination for the Improvement of Higher Level Education Personnel (CAPES), Brazil.

**Study abroad fellowship***Sep '13 – Sep '14*

National Council for Scientific and Technological Development (CNPq), Brazil.

**Undergraduate fellowship***Mar '12 – Aug '13*

Coordination for the Improvement of Higher Level Education Personnel (CAPES), Brazil.

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**Conferences and Courses Attended**

**"Extending JAGS for spatial data"** Oral presentation as a contestant of the 'best master's thesis award' in the 23rd National Symposium on Probability and Statistics (SINAPE), São Pedro, Brazil, September 2018.

**"Extending JAGS for spatial data"** Poster presentation at the XIV Brazilian Meeting on Bayesian Statistics, Rio de Janeiro, Brazil, March 2018.

**"The GeoJAGS module and its application to a spatial survival model"** Poster presentation at the V Workshop on Survival Analysis and Applications, Salvador, Brazil, February 2018.

**"Extending JAGS for spatial data"** Poster presentation at the XV Statistical Meeting of Minas Gerais, Belo Horizonte, Brazil, October 2017.

**"Bayesian Nonparametric Modeling and Data Analysis: An Introduction"** Short course by Dr. Raffaele Argiento (CNR-IMATI, Milan, Italy), Belo Horizonte, Brazil, October 2016.

**"Early Career Mathematicians' Spring Conference 2014"** Leeds, United Kingdom, March 2014.

**"Pre-calculus"** Poster presentation at the IV National Meeting of Math Groups, Santa Maria, Brazil, November 2012.

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**Leadership activities**

Student representative at the Graduate Office in the Department of Statistics at USP

*Nov '18 – present*

Student representative at the Graduate Office in the Department of Statistics at UFMG

*Nov '16 – Nov '17*

President of the Computer Math Students' Union

*Mar '15 – Mar '16*

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**Skills**

**Programming languages:** C, C++, C#, Java, R, SQL.

**Languages:** Portuguese (native speaker), English (TOEFL score 94) and French (beginner).

## Interests

**Non-exhaustive and in no particular order:** Programming Languages, Data Science, Machine Learning, Bayesian Statistics, Spatial Statistics, environmental applications, cooking, cycling and trekking.

## Memberships

**ABE** Brazilian Association of Statistics.

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## References

Dr Florencia Leonardi (PhD Advisor)

Adjoint Professor of Statistics at University of São Paulo, Brazil.

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Email: florencia@usp.br.

Dr Vinícius Diniz Mayrink (Master's advisor)

Assistant Professor of Statistics at Federal University of Minas Gerais, Brazil.

Address: Av. Antônio Carlos 6627, ICEx, UFMG, Pampulha, Belo Horizonte. Phone: +55 31

3409-5946. Email: vdmest@ufmg.br.

Dr Fábio Nogueira Demarqui (Master's co-advisor)

Assistant Professor of Statistics at Fluminense Federal University, Brazil.

Address: Rua Professor Marcos Waldemar de Freitas Reis, s/n, Bloco G, Instituto de Matemática e Estatística. Phone: +55 21 2629-2099. Email: fndemarqui@id.uff.br.

Dr Marcos Oliveira Prates (Professor)

Assistant Professor of Statistics at Federal University of Minas Gerais, Brazil.

Address: Av. Antônio Carlos 6627, ICEx, UFMG, Pampulha, Belo Horizonte. Phone: +55 31 3409-5920. Email: marcosop@ufmg.br.