

T. Magalhães | Curriculum Vitae

✉ tiago.magalhaes@ufjf.br • 🌐 www.ufjf.br/tiago_magalhaes

Current Affiliation

Institute of Exact Sciences, Federal University of Juiz de Fora

Assistant Professor, Brazil

Associate Chair, Department of Statistics

Juiz de Fora

Dec 2017–Present

Mar 2020–Present

Education

Institute of Mathematics and Statistics, University of São Paulo

PhD in Statistics, Brazil

São Paulo

2016

Institute of Mathematics and Statistics, University of São Paulo

MS in Statistics, Brazil

São Paulo

2011

Science Center, Federal University of Ceará

BA, magna cum laude, in Statistics, Brazil

Fortaleza

2008

Languages

Portuguese: Mothertongue

English: Advanced

French: Intermediate

Spanish: Basic

Research Interests

- Applied Statistics
- Regression models
- Statistical inference

Publications

Peer-Reviewed

To appear: Bartlett corrections for zero-adjusted generalized linear models. *Statistical Papers*, DOI: 10.1007/s00362-023-01477-2. (with G. Pereira, D. Botter and M. Sandoval)

To appear: Some asymptotic inferential aspects of the Kumaraswamy distribution. *Communications in Statistics - Theory and Methods*, DOI: 10.1080/03610926.2023.2241091. (with H. Carneiro, M. Sandoval and D. Botter)

2023: Improved inference in censored Weibull regression model: an application on the MCP-Mod approach with time-to-event endpoints. *Pharmaceutical Statistics* 22 (5), 760–772. (with M. Diniz and D. Gallardo)

2023: Improved gradient statistic in heteroskedastic generalized linear models. *Journal of Statistical Computation and Simulation* 93 (12), 2052–2066. (with F. Barros, D. Botter and M. Sandoval)

- 2022:** A bimodal model based on truncation positive normal with application to height data. *Symmetry* 14 (4), 665. (with H. Gómez, W. Caimanque, Y. Gómez, M. Concha and D. Gallardo)
- 2022:** A class of categorization methods for credit scoring models. *European Journal of Operational Research* 296 (1), 323–331. (with D. Silva and G. Pereira)
- 2021:** An asymmetric bimodal double regression model. *Symmetry* 13 (12), 2279. (with Y. Gómez, D. Gallardo and O. Venegas)
- 2021:** Improved point estimation for inverse gamma regression models. *Journal of Statistical Computation and Simulation* 91 (12), 2444–2456. (with D. Gallardo and M. Bourguignon)
- 2021:** A general expression for second-order covariance matrices - an application to dispersion models. *Brazilian Journal of Probability and Statistics* 35 (1), 37–49. (with D. Botter and M. Sandoval)
- 2020:** Bartlett and Bartlett-type corrections for censored data from a Weibull distribution. *SORT - Statistics and Operations Research Transactions* 44 (1), 127–140. (with D. Gallardo)
- 2020:** Bias reduction for the Marshall-Olkin extended family of distributions with application to an airplane's air conditioning system and precipitation data. *Symmetry* 12 (5), 851. (with Y. Gómez, D. Gallardo and O. Venegas)
- 2019:** Skewness of maximum likelihood estimators in the Weibull censored data. *Symmetry* 11 (11), 1351. (with D. Gallardo and H. Gómez)
- 2019:** Skewness of maximum likelihood estimators in the varying dispersion beta regression model. *Communications in Statistics - Theory and Methods* 48 (17), 4250–4260. (with D. Botter, M. Sandoval, G. Pereira and G. Cordeiro)
- 2018:** Propensity score matching comparison of laparoscopic versus open surgery for rectal cancer in middle-income country: short-term outcomes and cost analysis. *ClinicoEconomics and Outcomes Research* 10, 521–527. (with D. Tayar, U. Ribeiro-Jr, I. Cecconello, C. Simões and J. Auler-Jr)
- 2017:** Corrigendum to: "Covariance matrix formula for generalized linear models with unknown dispersion" by G. M. Cordeiro, L. P. Barroso and D. A. Botter [Communications in Statistics - Theory and Methods (2006) 35(1), 113–120]. *Communications in Statistics - Theory and Methods* 46 (21), 10702–10704. (with D. Botter and M. Sandoval)
- 2013:** Asymptotic skewness for the beta regression model. *Statistics and Probability Letters* 83 (10), 2236–2241. (with D. Botter and M. Sandoval)

Others.....

- 2020:** Normalidade dos dados: suposições, transformações e valores atípicos. In Lunardi, A. *Manual de pesquisa clínica aplicada à saúde*. Blucher, 349–364. [Gaussian data: assumptions, transformations and outliers/Manual of clinical research applied to healthcare] (with M. Diniz)
- 2020:** Logistic regression and related methods. In Piantadosi, S. and Meinert, C. *Principles and practice of clinical trials*. Springer, 1–23. (with M. Diniz)
- 2016:** On the performance of VWAP execution algorithms. *Global Trading Q4* (60), 43–45. (with H. Takada)

Reviewer

- BMJ Open (ISSN: 2044-6055)
- Ciencia & Natura (ISSN: 2179-460X)
- Colombian Journal of Statistics (ISSN: 0120-1751)

- Computation (ISSN: 2079-3197)
- Journal of Applied Statistics (ISSN: 0266-4763)
- Revista Brasileira de Biometria (ISSN: 1983-0823)
- Scientific Reports (ISSN: 2045-2322)
- Statistics & Probability Letters (ISSN: 0167-7152)

Teaching Experience

Engineering School, University of Atacama <i>Visiting Professor, Chile</i>	Copiapó <i>Aug 2019</i>
Engineering School, University of Atacama <i>Visiting Professor, Chile</i>	Copiapó <i>Sep 2018</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Lecturer, Brazil</i> Uma Introdução à Análise Exploratória de Dados e Métodos Estatísticos [<i>An Introduction to Exploratory Data Analysis and Statistical Methods</i>]	São Paulo <i>Jan 2018</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Instructor, Brazil</i> Métodos Estatísticos Aplicados às Ciências Biológicas [<i>Statistical Methods Applied to Biological Sciences</i>]	São Paulo <i>Aug–Nov 2015</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Lecturer, Brazil</i> Uma Introdução à Análise Exploratória de Dados e Métodos Estatísticos [<i>An Introduction to Exploratory Data Analysis and Statistical Methods</i>]	São Paulo <i>Jan 2014</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Teaching Assistant, Brazil</i> Controle Estatístico de Qualidade [<i>Statistical Quality Control</i>]	São Paulo <i>Jul–Nov 2013</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Lecturer, Brazil</i> Uma Introdução à Análise Exploratória de Dados e Métodos Estatísticos [<i>An Introduction to Exploratory Data Analysis and Statistical Methods</i>]	São Paulo <i>Jan 2013</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Teaching Assistant, Brazil</i> Noções de Estatística [<i>Basic Statistics</i>]	São Paulo <i>Jul–Nov 2012</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Teaching Assistant, Brazil</i> Noções de Estatística [<i>Basic Statistics</i>]	São Paulo <i>Jul–Nov 2011</i>
Institute of Mathematics and Statistics, University of São Paulo <i>Teaching Assistant, Brazil</i> Noções de Estatística [<i>Basic Statistics</i>]	São Paulo <i>Jul–Nov 2010</i>

Professional Experience

Itaú Asset Management, Itaú-Unibanco Bank <i>Senior Quantitative Research Analyst, Brazil</i>	São Paulo <i>Jan–Dec 2016</i>
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Programming Languages

C, Excel, HTML, Latex, Matlab, Ox, R and VBA

Conferences and Workshops

2022

July 31 - August 5

Gramado

24o. Simpósio Nacional de Probabilidade e Estatística, Brazil

CT: A class of categorization methods for credit scoring models.

2018

September 23 - 28

São Pedro

23o. Simpósio Nacional de Probabilidade e Estatística, Brazil

CT: Median bias reduction of maximum likelihood estimates in the Kumaraswamy distribution.

2016

May 29 - June 1

St. Catharines

44th Annual Meeting of the Statistical Society of Canada, Canada

CT: A Wald-type test in proper dispersion models.

2015

March 2 - 5

Campinas

XIV Brazilian School of Regression Models, Brazil

P: Wald test in finite samples.

February 9 - 11

São Carlos

3rd Workshop on Probabilistic and Statistical Methods, Brazil

2014

July 20 - 25

Natal

XXI Simpósio Nacional de Probabilidade e Estatística, Brazil

CT: An improved Wald test in dispersion models.

2013

August 3 - 8

Montréal

2013 Joint Statistical Meetings, Canada

P: Skewness of the maximum likelihood estimators in beta regression model.

February 24 - 27

São Sebastião

13a. Escola de Modelos de Regressão, Brazil

P: Coeficiente de assimetria de ordem $n^{-1/2}$ da distribuição dos estimadores de máxima verossimilhança dos parâmetros do modelo de regressão beta heterocedástico [*Skewness coefficient of order $n^{-1/2}$ of the distribution of the maximum likelihood estimators of the parameters in heteroskedastic beta regression model*].

2012

July 30 - August 3

João Pessoa

20o. Simpósio Nacional de Probabilidade e Estatística, Brazil

CT: Assimetria assintótica no modelo de regressão beta [*Asymptotic skewness in the beta regression model*].

2011

March 13 - 16

Fortaleza

XII Escola de Modelos de Regressão, Brazil

P: Matriz de covariâncias de segunda ordem do estimador de máxima verossimilhança corrigido pelo viés em modelos não lineares da família exponencial [*Second-order covariance matrix of the bias-corrected maximum likelihood estimator in exponential family nonlinear models*].

2010

July 26 - 30

São Pedro

19o. Simpósio Nacional de Probabilidade e Estatística, Brazil

P: Matriz de covariâncias de segunda ordem do estimador de máxima verossimilhança corrigido pelo viés em modelos não lineares da família exponencial [*Second-order covariance matrix of the bias-corrected maximum likelihood estimator in exponential family nonlinear models*].

2008

October 28 - 31

Fortaleza

XXVII Encontro Universitário de Iniciação Científica, Brazil

P: Comparação entre testes de independência [*Comparison of independence tests*].

2007

June 14 - 15

Fortaleza

XXVI Encontro Universitário de Iniciação Científica, Brazil

CT: Um estudo sobre indicadores sócio-econômicos dos municípios do Estado do Ceará via análise espacial e sistemas de informações geográficas [*A study on socio-economic indicators of the municipalities of the State of Ceará via spatial analysis and geographic information systems*].

2006

June 22 - 23

Fortaleza

XXV Encontro Universitário de Iniciação Científica, Brazil

CT: Um estudo sobre indicadores sócio-econômicos dos municípios do Estado do Ceará via análise espacial e sistemas de informações geográficas [*A study on socio-economic indicators of the municipalities of the State of Ceará via spatial analysis and geographic information systems*].

Remark:: CT means Contributed Talk and P means Poster Presentation

Awards & Scholarships

Institute of Mathematics and Statistics, University of São Paulo <i>Scholarships of CAPES, Brazil</i> Postdoctoral scholarship of the Coordenação de Aperfeiçoamento de Pessoal de Nível Superior	São Paulo 2017
Institute of Mathematics and Statistics, University of São Paulo <i>Scholarships of CNPq, Brazil</i> PhD scholarship of the Conselho Nacional de Desenvolvimento Científico e Tecnológico	São Paulo 2012–2015
Institute of Mathematics and Statistics, University of São Paulo <i>Scholarships of CAPES, Brazil</i> PhD scholarship of the Coordenação de Aperfeiçoamento de Pessoal de Nível Superior	São Paulo 2011–2012
Institute of Mathematics and Statistics, University of São Paulo <i>Scholarships of CNPq, Brazil</i> Master scholarship of the Conselho Nacional de Desenvolvimento Científico e Tecnológico	São Paulo 2009–2011
Science Center, Federal University of Ceará <i>Scholarships of CNPq, Brazil</i> Undergraduate research scholarship of the Conselho Nacional de Desenvolvimento Científico e Tecnológico	Fortaleza 2007–2008
Science Center, Federal University of Ceará <i>Scholarships of PIBIC, Brazil</i>	Fortaleza 2006–2007

Undergraduate research scholarship of the Programa Institucional de Bolsas de Iniciação Científica
Science Center, Federal University of Ceará **Fortaleza**
Scholarships of PIBIC, Brazil 2006
Undergraduate research scholarship of the Programa Institucional de Bolsas de Iniciação Científica

Member of Committees

Institute of Mathematics and Statistics, University of São Paulo **São Paulo**
Member of the CCP - Statistics, Brazil 2013

Graduate Representative in the Coordinating Committee Program - Statistics

Institute of Mathematics and Statistics, University of São Paulo **São Paulo**
Member of the MAE Council, Brazil 2010

Graduate Representative in the Council of the Department of Statistics

Updated

October 4, 2023

Abijwa