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EDUCATION *Bachelor of Statistics,* March 2008 - December 2011
São Paulo State University, São Paulo, Brazil

Master in Applied and Computational Mathematics, March 2012 - February 2014
São Paulo State University, São Paulo, Brazil

PhD in Statistics, March 2014 - February 2018
São Paulo University and Federal University of São Carlos, São Paulo, Brazil

POSTDOC *Statistics,* March 2018 - November 2018
São Paulo University and Federal University of São Carlos, São Paulo, Brazil
Supervisor: Francisco Louzada

Computer Science, December 2018 - Expected August 2021
São Paulo University, São Paulo, Brazil
Supervisor: Francisco Aparecido Rodrigues

ACADEMIC EXPERIENCE **Instructor,** São Paulo University (USP), Brazil, February 2015 - December 2018.

Lecture, Trevisan Business School, Ribeirão Bonito, Fall 2015.

Lecture, Paulista University, Bauru, Winter 2018.

Collaborator Professor, São Paulo University (USP), São Carlos, August 2018-December 2018.

HONORS, AWARDS AND GRANTS Finalist of the 2019 ANP Technological Innovation Award, (joint work with other institutions) Brazilian National Oil Agency.

Best Poster Award on Statistics and Data Science, 2nd Conference on Statistics and Data Science, Bahia, Brazil , 2018 .

2^o Place in the Best Doctoral Thesis Award from 2016-2018, Brazilian National Symposium on Probability and Statistic, 2018.

NSF/QPRC Award, University of Connecticut, 2017 .

Student Travel Grant - Visiting Scholar at University of Connecticut with scholarship granted by CAPES (Brazilian Federal Agency), 2017.

INVITED SPEAKER Young doctor section - Regression Models School, Brazil, 2019.

Best thesis presentation - National Symposium on Probability and Statistics, Brazil, 2018.

PUBLICATIONS

1. Nascimento, D.C.; Ramos P.L.; Elal-Olivero D.; Cortes-Araya M.; Louzada, F. Generalizing Normality: Different Estimation Methods for Skewed Information. *Symmetry*, 13, p.1067, 2021.
2. Souza, H. C. C. ; Louzada, F. ; Ramos, P. L. ; Oliveira, M. R. ; Perdon, G. S. C. . A Bayesian approach for the zero-inflated cure rate model: An application on a Brazilian invasive cervical cancer data. *Journal of Applied Statistics*, 1-7, 2021. (Online First)
3. Ahsan-ul-Haq, M., Ahmed, M., Zafar, J., & **Ramos, P.L.**. Modeling of COVID-19 Cases in Pakistan Using Lifetime Probability Distributions. *Annals of Data Science*, 1-12, 2021. (Online First)
4. Tomazella, V.L.D., Jesus, S.R., Gazon, A.B., Louzada, F., Nadarajah, S., Nascimento, D.C., Rodrigues, F.A. and Ramos, P.L. Bayesian Reference Analysis for the Generalized Normal Linear Regression Model. *Symmetry*, 13(5), p.856. 2021.
5. Almeida M.; **Ramos, P.L.**; Gadde, S.R; Moala, F.A. Objective Bayesian Inference for the Capability Index of the Gamma Distribution, *Quality and Reliability Engineering International*, 2021. (Online First)
6. Morita, L. H. M. ; Tomazella, V. L. D. ; Ferreira, P. H. ; **Ramos, P.L.**; Balakrishnan, N. ; Louzada, F. Optimal burn-in policy based on a set of cutoff points using mixture inverse Gaussian degradation process and copulas, *Applied Stochastic Models in Business and Industry*, 2021.
7. **Ramos, P.L.**, Mota, A. L., Ferreira, P. H., Ramos, E., Tomazella, V. L., Louzada, F. Bayesian analysis of the inverse generalized gamma distribution using objective priors. *Journal of Statistical Computation and Simulation*, 91(4), 786-816, 2021.
8. Morita, L. H. M. ; Tomazella, V. L. D. ; Balakrishnan, N. ; **Ramos, P.L.**; Ferreira, P. H. ; Louzada, F. Inverse Gaussian process model with frailty term in reliability analysis. *Quality and Reliability Engineering International*, 37, p. 763784, 2021.
9. Morita, L. H. M. ; Tomazella, V. L. D. ; **Ramos, P.L.**; Ferreira, P. H. ; Louzada, F. . The random deterioration rate model with measurement error based on the inverse Gaussian distribution. *Brazilian Journal of Probability and Statistics*, v. 35, p. 187-204, 2021.
10. Mota, A.; **Ramos, P.L.**; Ferreira, P.; Tomazella, V.; Louzada, F. A Reparameterized Weighted Lindley Distribution: Properties, Estimation and Applications. *Revista Colombiana de Estadística*, 44(1), 65-90, 2021.
11. Louzada, F. ; Ramos, E.; **Ramos, P. L.** Contributed Discussion on 'On a Class of Objective Priors from Scoring Rules'. *Bayesian Analysis*, v. 15, p. 1403-1405, 2020.
12. Tomazella, V. L., **Ramos, P.L.**, Ferreira, P. H., Mota, A. L., Louzada, F. The Lehmann type II inverse Weibull distribution in the presence of censored data. *Communications in Statistics-Simulation and Computation*, 1-17, 2020. (Online First)
13. Nascimento, D.C.D., **Ramos, P.L.**, Ennes, A., Cocolo, C., Nicola, M.J., Alonso, C., Ribeiro, L.G. and Louzada, F., A reliability engineering case study of sugarcane harvesters. *Gestao & Producao*, 27(4), 2020.

14. Ianishi, P., Junior, O.A.G., Henriques, M.J., do Nascimento, D.C., Mattar, G.K., **Ramos, P.L.**, Ara, A. and Louzada, F., Probability on Graphical Structure: A Knowledge-Based Agricultural Case. *Annals of Data Science*, pp.1-19, 2020. (Online First)
15. Louzada, F., **Ramos, P.L.**, Ferreira, P. H. The long-term inverse Nakagami distribution: Properties, inference and application. *Cincia e Natura*, 42, 2, 2020.
16. Almeida, M. P. ; Paixao, R. ; **Ramos, P.L.** ; Tomazella, V. L. D. ; Ehlers, R. S.; Louzada, F. Bayesian non-parametric frailty model for dependent competing risks in a repairable systems framework. *Reliability Engineering & System Safety*, v. 204, p. 107145, 2020.
17. Ramos, E. ; **Ramos, P.L.** ; Louzada, F. Posterior Properties of the Weibull Distribution for Censored Data. *Statistics & Probability Letters*, v. 166, p. 108873, 2020.
18. Louzada, F. ; Cuminato, J.A. ; Rodriguez, O.M.H. ; Tomazella, V.L.D. ; Milani, E.A. ; Ferreira, P.H. ; **Ramos, P.L.** ; Bochio, G. ; Perissini, I.C. ; Gonzatto, O.A. ; Mota, A.L. ; Alegria, L.F.A. ; Colombo, D.; Oliveira, P.G.O. ; Santos, H. ; Magalhaes, M. . Incorporation of frailties into a non-proportional hazard regression model and its diagnostics for reliability modeling of downhole safety valves. *IEEE Access*, v. 8, p. 219757 - 219774, 2020.
19. **Ramos, P.L.**; Ramos, E. ; Louzada, F. . Bias reduction in the closed-form maximum likelihood estimator for the Nakagami-m Fading Parameter. *IEEE Wireless Communications Letters*, v. 99, p. 1-4, 2020.
20. Ferreira, P. H., Ramos, E., **Ramos, P.L.**, Gonzales, J. F., Tomazella, V. L., Ehlers, R. S., ... & Louzada, F. (2020). Objective Bayesian analysis for the Lomax distribution. *Statistics & Probability Letters*, 159, 108677.
21. Tomazella, V. L. D.; Jesus, S. R.; Louzada, F.; **Ramos, P.L.**; Nadarajah, S. Reference Bayesian analysis for the generalized lognormal distribution with application to survival data, *Statistics and its Interface*, 13 (1), 139-149, 2020.
22. Chesneau, C.; Bakouch, H. S.; **Ramos, P.L.**; Louzada, F. A continuous probability model allowing occurrence of zero values: Polynomial-exponential, *Communications in Statistics - Simulation and Computation*, p. 1-26, 2020. (Online First)
23. **Ramos, P.L.**; Dey, D. K. ; Louzada, F. ; LACHOS, V. H. . An extended Poisson family of life distribution: a unified approach in competitive and complementary risks. *Journal of Applied Statistics*, 47 (2), 306-322, 2020.
24. Haq, M. A. U. ; Hashmi, S. ; Aidi, K. ; **Ramos, P.L.** ; Louzada, F. Unit Modified Burr-III Distribution: Estimation, Characterizations and Validation Test. *Annals of Data Science*, p. 1-26, 2020. (Online First)
25. RAMOS, P. L.; MOALA, F. A. ; LOUZADA, F. . A Two-Parameter Distribution with Increasing and Bathtub Hazard Rate. *JOURNAL OF DATA SCIENCE (PRINT)*, v. 18, p. 813-827, 2020.
26. **Ramos, P.L.**; Louzada, F.; Ramos, E.; Dey, S. The Frechet distribution: Estimation and Application an Overview. *Journal of Statistics and Management Systems.*, 23 (3), 549578, 2020.
27. **Ramos, P.L.**; Nascimento, D. C. ; Fernandes, R. ; Guimaraes, E. ; Santana, M. ; Soares, K. ; Louzada, F. . Medical care in emergency units with risk classification: time to attendance at a hospital based on parametric models. *Trends in Applied and Computational Mathematics*, 2020.

28. Haq, M. A. U., Hamedani, G. G., Elgarhy, M., **Ramos, P.L.** Marshall-Olkin Power Lomax distribution: Properties and estimation based on complete and censored samples. *Int. J. Stat. Probab*, 9(1), 48, 2020.
29. Louzada, F.; **Ramos, P.L.**; Ramos, E. A Note on Bias of Closed-Form Estimators for the Gamma Distribution Derived from Likelihood Equations. *American Statistician*. V.71 , p.195- 199, 2019.
30. Louzada, F; Cuminato, J; Rodriguez, O.M.H; Tomazella, V.L.; Ferreira, P.H ; **Ramos, P.L.**; Niaki, S.R.; Junior, O.A; Perissini, I.; Alegria, L.F.; Colombo, D.; Martins, D.; Santos, H. A Repairable System Subjected to Hierarchical Competing Risks: Modeling and Applications, 7 (1), 171707 - 171723, IEEE Access, 2019.
31. **Ramos, P.L.**; Nascimento, D. C. ; Ferreira, P. H. ; Tavares, K. ; Santos, T. E.G. ; Louzada, F. Modeling traumatic brain injury lifetime data: Improved estimators for the Generalized Gamma distribution under small samples. *PLoS One*, v. 14, p. e0221332, 2019.
32. **Ramos, P.L.**; ALMEIDA, M. P. ; Tomazella, V. L. D. ; Louzada, F. Improved Bayes estimators and prediction for the Wilson-Hilferty distribution. *Annals of the Brazilian Academy of Sciences*, v. 91, p. e20190002, 2019.
33. Nascimento, D. C. ; BARBOSA, B. ; PEREZ, A. ; CAIRES, D. O. ; **Ramos, P.L.** ; Louzada, F. Risk management in e-commerce: a study case fraud using acoustic analysis, *Entropy*, 21(11), 1087, 2019.
34. Saboor, A.; Khan, M. N.; Cordeiro, G. M.; Pascoa, M. A. R.; **Ramos, P.L.**; Kamal, M. Some new results for the transmuted generalized gamma distribution. *Journal of Computational and Applied Mathematics*. , v.352, p.165 - 180, 2019.
35. **Ramos, P.L.**; Louzada, F. A note on the exponential geometric power series distribution. *Communications in Statistics - Simulation and Computation*, v. 99, p. 1-5, 2019.
36. **Ramos, P.L.**; Louzada, F. A Distribution for Instantaneous Failures. *Stats*, v.2, p.247 - 258, 2019.
37. Ramos, M. M. A.; **Ramos, P.L.**; Louzada, F.; DELLA-BARBA, P. C. S. Using Software R in research in occupational therapy. *Brazilian Journal of Occupational Therapy*, v.27, p.217-230, 2019.
38. **Ramos, P.L.**; Louzada, F.; Shimizu, T. K. O.; Luiz, A. O. The inverse weighted Lindley distribution: Properties, estimation and an application on a failure time data. *Communications in Statistics - Theory and Methods*. v48, p. 2372-2389, 2019.
39. **Ramos, P.L.**; Louzada, F.; Ramos, EDUARDO Posterior Properties of the Nakagami-m Distribution Using Non-informative Priors and Applications in Reliability. *IEEE Transactions on Reliability*, v.67, p.105 - 117, 2018.
40. Louzada, F.; **Ramos, P.L.** Efficient closed-form maximum a posteriori estimators for the gamma distribution. *Journal of Statistical Computation and Simulation*, v.88, p. 1134-1146, 2018.
41. Louzada, F.; **Ramos, P.L.**; Nascimento, D. C. The Inverse Nakagami-m Distribution: A Novel Approach in Reliability. *IEEE Transactions on Reliability*. v67, p. 1030-1042, 2018.
42. **Ramos, P.L.**; Louzada, F. Bayesian reference analysis for the Generalized Gamma distribution. *IEEE Communications Letters*, v.22, p. 1950-1953, 2018.

43. **Ramos, P.L.**; Nascimento, D.C.; Cocolo, C.; Nicola, M.J.; Alonso, C.; Ribeiro, L.G.; Ennes, A.; Louzada, F. Reliability-Centered Maintenance: Analyzing Failure in Harvest Sugarcane Machine Using Some Generalizations of the Weibull Distribution. *Modelling and Simulation in Engineering*, v.2018, p.1 - 12, 2018.
44. Louzada, F.; **Ramos, P.L.**; Ferreira, P. H. Exponential-Poisson Distribution: Estimation and Applications to Rainfall and Aircraft Data With Zero Occurrence. *Communications in Statistics-Simulation and Computation*, p.1 - 20, 2018.
45. Rodrigues, G.C; Louzada, F.; **Ramos, P.L.** Poisson-exponential distribution: different methods of estimation. *Journal of Applied Statistics.* , v.45, p.128 - 144, 2018.
46. Louzada, F.; **Ramos, P.L.** A New Long-Term Survival Distribution. *Biostatistics and Biometrics Open Access Journal*, v.1, p.1 - 6, 2017.
47. Bakouch, H. S.; Dey, S.; **Ramos, P.L.**; Louzada, F. Binomial-Exponential 2 Distribution: Different Estimation Methods and Weather Applications. *Trends in Applied and Computational Mathematics*, v.18, p.0233, 2017.
48. **Ramos, P.L.**; Nascimento, D. C.; Louzada, F. The Long Term Frchet Distribution: Estimation, Properties and Its Application. *Biometrics e Biostatistics International Journal*, v.6, p.1 - 6, 2017.
49. **Ramos, P.L.**; Louzada, F.; Cancho, V. G. Maximum Likelihood Estimation for the weighted Lindley Distribution Parameters under Different Types of Censoring. *Revista Brasileira de Biometria*, v.35, p.116 - 132, 2017.
50. Achcar, J. A.; **Ramos, P.L.**; Martinez, E. Z. Some computational aspects to find accurate estimates for the parameters of the generalized gamma distribution. *Pesquisa operacional*, v.37, p.365 - 385, 2017.
51. **Ramos, P.L.**; Achcar, J.A.; Moala, F.A.; Ramos, E; Louzada, F. Bayesian analysis of the generalized gamma distribution using non-informative priors. *Statistics*, v.51, p. 824-843., 2017.
52. Dey, S; Kumar, Devendra; **Ramos, P.L.**; Louzada, F. Exponentiated Chen Distribution: Properties and Estimation. *Communications in Statistics - Simulation and Computation*, v.46, p. 8118-8139, 2017.
53. **Ramos, P.L.**; Louzada, F.; Ramos, E. An Efficient, Closed-Form MAP Estimator for Nakagami-m Fading Parameter. *IEEE Communications Letters*, v. 20, p. 2328-2331, 2016.
54. **Ramos, P.L.**; Louzada, F. The generalized weighted Lindley distribution: Properties, estimation and applications. *Cogent Mathematics*, v.3, p.1 - 24, 2016.
55. Louzada, F.; **Ramos, P.L.** Different Estimation Procedures for the Parameters of the Extended Exponential Geometric Distribution for Medical Data. *Computational and Mathematical Methods in Medicine (Print)*, v.2016, p.1 - 12, 2016.
56. **Ramos, P.L.**; Louzada, F. Comments on The Exponentiated Inverted Weibull Distribution-. *Applied Mathematics & Information Sciences (Print)*, v.10, p.1641 - 1643, 2016.
57. **Ramos, P.L.**; Moala, F. A.; Achcar, J. A. Objective Priors for Estimation of Extended Exponential Geometric Distribution. *Journal of Modern Applied Statistical Methods*, v.13, p.226 - 243, 2014.

58. Moala, F. A.; **Ramos, P.L.**; Achcar, J. A. Bayesian Inference for Two-Parameter Gamma Distribution Assuming Different Noninformative Priors. *Revista Colombiana de Estadística*, v.36, p.321 - 338, 2013.

**REFEREE/
REVIEWER**

- Scientific Reports
- Statistics and its interface
- IEEE Transactions on Vehicular Technology
- Applied Mathematical Modelling
- American Statistician
- Journal of King Saud University - Science
- PloS One
- Future Internet
- Information
- Statistics and Probability Letters
- Entropy
- Stat
- IEEE Communications Letters
- Mathematics and Computers in Simulation
- Austrian Journal of Statistics
- Journal of Applied Statistics
- Sankhya B
- Communications in Statistics. Simulation and Computation
- Annals of the Brazilian Academy of Sciences
- Cogent Economics and Finance
- Quality Technology and Quantitative Management
- Brazilian Journal of Probability and Statistics

**CONFERENCE
PRESENTA-
TIONS**

1. Ramos, P. L.; Louzada, F. Bayesian reference analysis for the Generalized Gamma distribution In: XIII EBEB - Brazilian Meeting of Bayesian Analysis, 2016, Belo Horizonte. XIII EBEB - Brazilian Meeting of Bayesian Analysis, 2016.
2. Ramos, P.L.; Almeida, M. P.; Tomazella, V. L. D.; Louzada, F. Improved Bayes estimators and prediction for the Wilson-Hilferty distribution In: SINAPE - National Symposium on Probability and Statistics, 2018, So Pedro, Brazil. SINAPE. , 2018.
3. Ramos, P. L.; Rodrigues, F.A. Posterior properties of some distributions and its higher moments In: XVI EMR Escola de modelos de Regresso, 2019, Pirenopolis. XVI EMR Escola de Modelo de Regresso, 2019.
4. Ramos, P. L.; Efficient Closed-form Map Estimators For Some Survival Distributions In: XVI VI Latin America Bayesian Congress, 2019, Lima, Peru. VI Congreso Bayesiano de Amrica Latina, 2019.
5. Ramos, P. L.; Rodrigues, F.A. Bayesian reference analysis for the Generalized Gamma distribution In: XIII EBEB - Encontro Brasileiro de Estatstica Bayesiana, 2016, Maresias. XIII EBEB - Brazilian Meeting of Bayesian Analysis, 2020.

**COURSE
PREPARATION**

Trevisan Business School, Brazil

- Probability and Statistics, Fall 2015 (Master in Business Administration Course).

University of São Paulo, Brazil

- Quality Control, Spring 2015, Spring 2016, Spring 2017.
- Probability and Statistics, Fall 2016, Fall 2017, Fall 2018 (Master course).

Paulista University, Brazil

- Probability and Statistics, Summer 2018 (Master in Business Administration Course).

**LANGUAGES
SKILLS**

- Portuguese: Native Portuguese speaker
- English: Fluent

REFERENCE

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