VICTOR HUGO LACHOS DAVILA

Department of Statistics, University of Connecticut 215 Glenbrook Road, U-4120, Storrs, CT 06269
Email: hlachos@uconn.edu
web site: http://hlachos.stat.uconn.edu

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EDUCATION

2009 - 2010 **Postdoctoral Studies**
University of Connecticut, USA
Advisor: Dipak Dey

2002 - 2004 **Ph.D. degree in Statistics**
São Paulo State University, USP, São Paulo, Brazil
Advisor: Heleno Bolfarine and Reinaldo B. Arellano-Valle

2000 - 2002 **M.S. degree in Statistics**
Campinas State University, UNICAMP, Campinas, Brazil.
Advisor: Filidor Vilca Labra

1995 - 1999 **B.S. degree in Statistics and Informatics (Honors)**
"*La Molina"* Nacional University Agrarian, UNALM, Perú

WORK EXPERIENCE

08/2017– **Professor** (tenured): Department of Statistics, University of Connecticut, Storrs, USA.

08/2016–08/2017 Visiting professor : Department of Statistics, University of Connecticut, Storrs, USA.

05/2011–04/2015 Director of the Undergraduate Program in Statistics. Campinas State University, UNICAMP, Campinas, Brazil

11/2011–08/2017 Associate professor: Department of Mathematics and Statistics Campinas State University, UNICAMP, Campinas, Brazil

04/2006–10/2011 Assistant professor: Department of Mathematics and Statistics Campinas State University, UNICAMP, Campinas, Brazil

10/2004 –03/ 2006 Senior Analyst**:** Dynamic Modeling of Operations and Markets, Bayes Forecast. Sao Paulo Brazil

02/1999 –07/ 1999 Research Assistance**:** Center of Cancer Research "Maes Heller", Lima-Peru**.**

AWARDS AND FELLOWSHIP

1. Fellowship: Coordination for the Improvement of Higher Education Personnel - CAPES, M.Sc. studies, 03/2000 -02/2002. Brazil

2. Fellowship: Coordination for the Improvement of Higher Education Personnel - CAPES, Ph.D. studies, 03/2002 -10/2004. Brazil

3. Honors for the best M.Sc. thesis, National Symposium in Probability and Statistics - SINAPE, July 2002. Brazil.

4. Received the IASI Award for excellence for the **best young research in the area of Statistics in the American region**, National Symposium in Probability and Statistics - SINAPE, July 2008.

5. Received the **Distinguished Professor Award** "Zeferino Vaz' from Campinas State University - Brazil, December, 2012.

6. Received the CAPES (Coordination for the Improvement of Higher Education Personnel) honorable mention for the supervision of the **best doctoral thesis in the area of Mathematics and Statistics,** December 2015, Brazil.

7. Received **Honorary doctor degree,** from *Universidad Pedro Ruiz Gallo*, Lambayeque-Peru, October 2016.

8. Recognition for **Teaching Excellence**, UConn. Fall 2016, Spring 2017 and Fall 2019.

GRANTS

1. *Estimação e diagnóstico em modelos de regressão skew-t-normal*. Research Fellowship. **FAPESP** – Process # 2006/57721-8. Total Award Amount: R$33,000, 07/01/2006 06/30/2008.

2. *Modelos lineares e não lineares com distribuições de mistura da escala skew-normal*. Research Fellowship - Level 2 **CNPq** – Process # 308109/2008-2. Total Award Amount: R$36,000, 01/03/2009 – 02/28/2012.

3. *Modelos robustos com distribuições de mistura da scala skew-normal*. **FAPESP** – Process # 2008/11455-0. Total Award Amount: R$30.450,00, 06/01/2009 –05/31/2011.

4. *Modelos hierárquicos com distribuições de mistura da escala skew-normal.* Research Fellowship . Process # **FAPESP** 2008/02159. Total Award Amount: R$34289,16, 08/01/2008 –07/31/2010.

5. *Modelos não lineares com distribuições de mistura da escala da skew-normal.* Funding for postdoc studies at Uconn **CNPq** – Process # 201384/2008-6. Total Award Amount: US$ 32600 (in dollar), 06/01/2009 –05/31/2010.

6. *Modelos lineares e não lineares com distribuições de mistura da scala skew-normal*. Funding for postdoc studies at Uconn. **FAPESP** – Process # 2010/01246-5. Total Award Amount: US$ 21540 (in dollar), 07/01/2009 –12/31/2010.
7. *Processos espaciais de misturas de escala skew-normal.* Research Fellowship. **FAPESP** – Process # 2011/01437-8. Total Award Amount: R$ 89,774.2, 06/01/2011 –05/31/2012.

8. *Análise Bayesiana de modelos Tobit usando a distribuição t de Student.* Research Fellowship. **FAPESP** – Process # 2011/07978-0. Total Award Amount: R$ 7239.96, 06/01/2011 –05/31/2012.

9. *Aplicações das distribuições de misturas da escala skew-normal em modelos de efeitos mistos.* Research Fellowship . **FAPESP** - Process # 2011/17400-6. Total Award Amount: R$ 33250, 12/01/2011 –11/30/2013.

10. *Aplicações das distribuições de misturas da escala skew-normal em modelos de análise fatorial.* **FAPESP** – Process # 2011/22063-9. Research Fellowship . Total Award Amount: R$ 157416.5 , 03/05/2012 –03/04/2016.

11. *Aplicações das distribuições de misturas da escala skew-normal em modelos de efeitos mistos.* Research Fellowship – level 1D. **CNPq** - Process # 305054/2011-2. Total Award Amount: R$ 105600, 03/05/2012 –03/04/2016.

12. *Modelos robustos de efeitos mistos usando distribuições de misturas da escala normal.* Funding for visiting professor Dipak Kumar Dey. **FAPESP** – Process # 2012/03590-0. Total Award Amount: R$ 9510.05, 07/29/2012 –08/17/2012.

13. *Modelos lineares e não lineares para dados censurados usando distribuições de misturas da escala skew-normal.* Research Fellowship. **FAPESP –** Process # 2012/18702-9. Total Award Amount: R$ 42051.24, 03/01/2013 –02/28/2015.

14. *Modelagem flexível de modelos longitudinais complexos usando distribuições skew-elípticas.* Funding for visiting professor Luis Mauricio Castro Cepero **FAPESP** – Process # 2012/19445-0. Total Award Amount: R$ 112420, 09/01/2013 –08/31/2014.

15. *Modelos com erros nas variáveis para dados censurados usando distribuições de misturas da escala skew-normal*. Research Fellowship. **FAPESP** – Process # 2013/21468-0. Total Award Amount: R$ 102736.17, 05/01/2014 –10/31/2015.

16. *Regressão e series temporais em modelamento de dados incompletos*. Funding for postdoc-Sandwich student. **FAPESP** – Process # 2014/13994-7. Total Award Amount: R$ 102736.17, 10/01/2014 –12/31/2014. Total Award Amount: R$ 55172.84, 05/01/2014 – 10/31/2015.

17. Estimação e diagnóstico em modelos de efeitos mistos para dados censurados usando misturas da escala skew-normal. Research Fellowship. **FAPESP** - Process # 2014/02938-9. Total Award Amount: R$ 22903.33, 05/01/2014 –06/30/2015.

18. Organization of International Events. XIV Regression School of Regression Model – UNICAMP. CNPq – Process # 466294/2014-0. Total Award Amount: R$ 28500, 03/01/2015 –02/28/2016.

19. *Estimação em Modelos de Efeitos Mistos para Respostas Censuradas usando as Distribuições de Misturas da Escala Normal*. Research Fellowship. **FAPESP** – Process # 2015/05385-3. Total Award Amount: R$ 46020, 07/15/2015 –01/14/2016.
20. *Estimação Robusta em Modelos Espaciais para Dados Censurados*. Research Fellowship. **FAPESP** – Process # 2015/17110-9. Total Award Amount: R$ 139860.71, 03/01/2016 – 02/28/2019.

21. Organization of International Events. IV Workshop in Survival Analysis and Applications (IV WASA) – UFMG-2015. **FAPESP** – Process # 2015/18263-3. Total Award Amount: R$ 139860.71, 03/01/2016 –02/28/2019. Total Award Amount: R$ 15476, 11/30/2015 – 12/02/2015.

22. *Modelagem Flexível em Regressão para Dados com Censuras*. Funding for visiting professor Celso Romulo Barbosa Cabral. **FAPESP** – Process # 2015/20922. Total Award Amount: R$ 147236.40, 07/01/2016 –06/30/2017.

23. *Estimacão Robusta em Modelos de Regressão para Dados Censurados*. Research Fellowship - Level 1C: **CNPq** - Process # 306334/2015. Total Award Amount: R$ 115200, 03/01/2016 –02/28/2020.

24. Modelos semi-paramétricos de efeitos mistos com respostas múltiplas censuradas sob a classe de distribuições misturas de escala normal. Funding for visiting professor Victor Hugo Lachos Davila. **FAPESP** – Process # 2018/05013-7. 06/25/2018 –08/24/2018

25. Star Up. University of Connecticut. August 2017-August 2020. US$ 25000.00

RESEARCH INTERESTS

- Linear/Non Linear Mixed-Effects Models
- Generalized Linear Mixed Models
- Skew-elliptical/Elliptical distributions.
- Time Series Analysis
- Measurement Error Models
- Semiparametric/Nonparametric Models.
- Censored Regression Models
- Spatial Models
- Augmented Models
- Prior elicitation

PUBLICATIONS (the underline indicates a student co-author)

1. Arellano-Valle, R. B., Bolfarine H. and **Lachos, V. H.** (2005). Skew-normal linear mixed models. *Journal of Data Science*, 3, 415-438.

2. Arellano-Valle, R. B., Ozan S., Bolfarine, H. and **Lachos**, **V. H.** (2005). Skew-normal measurement error models. *Journal of Multivariate Analysis*, 96, 265-281.

3. Bolfarine, H. and **Lachos, V. H.** (2006*).* Skew-binary regression with measurement errors. *Statistics (A Journal of Theoretical and Applied Statistics), 40, 485-494.*

4. **Lachos, V. H.,** Vilca-Labra, F.E. and Gálea-Rojas, M. (2007*).* Influence diagnostics for Grubbs's model*. Statistical Papers*, *48, 419-436*.

5. Bolfarine, H. and **Lachos, V.H .** (2007*).* Skew-probit measurement error model*.* S*tatistical Methodology, 4, 1-12.*

6. **Lachos, V. H**., Bolfarine, H. and Arellano-Valle R. B. and Montenegro, L. C. (2007). Likelihood based inference for multivariate skew-normal regression models. *Communication in Statistics – Theory and Methods*, 36, 1769-1786.

7. Arellano-Valle R. B., Bolfarine H. and **Lachos, V. H.** (2007). Bayesian inference for skew-normal linear mixed models. *Journal of Applied Statistics,* 34, 663-682*.*

8. Bolfarine, H., Montenegro, L. C. and **Lachos, V. H**. (2007). Influence diagnostics for skew-normal linear mixed models. *Sankhya, Series B,* 69, 648-670.

9. **Lachos**, **V.H**. (2008). Scale mixtures of skew-normal distribution with applications in regression models. *Estadistica (Instituto Interamericano de Estadística)*, 60, 42-73.

10. Cancho, V. G., Aoki, R. and **Lachos**, **V.H.** (2008). Bayesian analysis for a skew extension of the multivariate null intercept measurement error model. *Journal of Applied Statistics*, 35, 1239-1251.

11. Ortega, E. M. , Cancho, V. G. and **Lachos, V.H**. (2008). Assessing influence in survival data with a cured fraction and covariates. *Statistics and Operations Research Transactions* (SORT), 32, 115-140.

12. **Lachos, V.H**., Montenegro, L. C. and Bolfarine, H. (2008). Inference and assessment of local influence in skew-normal null intercept measurement error models. *Journal of Statistical Computation and Simulation*, 78, 395-419.

13. Ortega, E. M., Cancho V. G. and **Lachos, V. H**. (2009). Generalized log-gamma mixture model for cure rate: estimation and sensitivity analysis. *Sankhya* (Indian Statistical Institute), Series B, 71, 1-29.

14. **Lachos, V. H**., Cancho, V .G., Vilca-Labra, F. E. and Aoki, R. (2009). Robust multivariate measurement error Model with skew-normal/independent distributions and Bayesian MCMC implementation. *Statistical Methodology*, 6, 527-541.

15. Ghosh, P., Bayes, C. R. and **Lachos, V. H**. (2009). A Robust bayesian approach to null intercept measurement error model with application to dental data. *Computational Statistics and Data Analysis*, 53, 1066-1079.

16. **Lachos, V. H**., Dey, K. D. and Cancho, V. G. (2009). Robust linear mixed models with skew-normal independent distributions from a Bayesian perspective. *Journal of Statistical Planning and Inference*, 139, 4098-4110.

17. Montenegro, L. C., Bolfarine, H. and **Lachos, V. H**. (2009). Influence diagnostics for a skew extension of the Grubb's model. *Communication in Statistics- Simulation and Computation*, 38, 667-681.

18. Montenegro, L. C, **Lachos, V. H**. and Bolfarine H. (2009). Local influence analysis of skew-normal linear mixed models. *Communication in Statistics- Theory and Methods*, 38, 484-496.

19. **Lachos, V.H**., Bolfarine H. and Montenegro, L. C. (2010). Inference for a skew extension of the Grubbs model. *Statistical Papers*, 51, 701-715.

20. Cancho, V. G., **Lachos, V.H**. and Ortega, E. M. (2010). A nonlinear model with skew-normal errors. *Statistical Papers*, 51, 547-558.

21. Cancho, V. G., Ortega, E. M. and **Lachos, V.H.** (2010). Skew-normal comparative calibration models. *Journal of Statistical Theory and Applications*, 9, 143-168.

22. **Lachos, V. H.**, Cancho, V. G. and Aoki, R. (2010). Bayesian analysis for skew-t multivariate null intercept measurement error model. *Statistical Papers,* 51,531-545.

23. Cancho, V. G., Dey, K. D., **Lachos, V. H.** and Andrade, M. (2010). Bayesian nonlinear regression models with scale mixtures of skew normal distributions: estimation and case influence diagnostics. *Computational Statistics and Data Analysis,* 55, 588-602.

24. Basso, R. M, **Lachos, V. H**, Cabral, C. R. B. and Ghosh, P. (2010) . Robust mixture modeling based on scale mixtures of skew-normal distributions. *Computational Statistics and Data Analysis*, 54, 2926-2941.

25. Zeller, C. B., Vilca-Labra, F. E., **Lachos, V. H.** and Balakrishnan, N.(2010). Influence analyses of skew-normal/independent linear mixed models. *Computational Statistics and Data Analysis*, 54, 1266-1280.

26. Bandyopadhyay, D, **Lachos, V. H.**, Abanto-Valle, C. A. and Ghosh, P. (2010). Linear mixed models for skew-normal/independent bivariate responses with application to periodontal disease. *Statistics in Medicine,* 29, 2643–2655.

27. Abanto-Valle, C. A., Bandyopadhyay, D, **Lachos, V. H.** and Enriquez, I. (2010). Robust bayesian analysis of heavy-tailed stochastic volatility models using scale mixtures of normal distributions. *Computational Statistics and Data Analysis*, 54, 2883-2898.

28. **Lachos, V. H.**, Bolfarine H., Vilca-Labra, F. E. and Ghosh, P. (2010). Robust multivariate measurement error models with scale mixtures of skew-normal distributions. *Statistics (A Journal of Theoretical and Applied Statistics)*, 44, 541-556.

29. **Lachos, V. H.**, Ghosh, P. and Arellano-Valle R. B. (2010). Likelihood based inference for skew-normal/independent linear mixed model. *Statistica Sinica*, 20, 303-322.

30. Vilca-Labra, F. E. Garibay, V.C. and Aoky R. and **Lachos, V. H.** (2011). Skew-normal distribution in multivariate null intercept measurement error model. *Brazilian Journal of Probability and Statistics,* 25, 145-170.

31. Garay, A. M., **Lachos, V. H**, and Abanto-Valle, C.A. (2011). Nonlinear regression models based on scale mixtures of skew-normal distributions. *Journal of the Korean Statistical Society*, 40, 115-124.

32. **Lachos, V. H.**, Angolini, T. and Abanto-Valle, C. A.(2011). On estimation and local influence analysis for measurement errors models under heavy-tailed distributions. *Statistical Papers*, 52, 567–590.

33. Ferreira, C. S., Bolfarine, H. and **Lachos, V. H.** (2011). Skew Scale Mixtures of Normal Distributions: Properties and Estimation. *Statistical Methodology,* 8, 154–171.

34. Abanto-Valle, C. A., Migon, H. and **Lachos, V. H.** (2011). Stochastic volatility in mean models with scale mixtures of normal distributions and correlated errors: A Bayesian approach. *Journal of Statistical Planning and Inference*, 141, 1875-1887.

35. Zeller, C. B., **Lachos, V. H** and Vilca-Labra, F. E. (2011). Local influence analysis for regression models with skew-normal independent distributions. *Journal of Applied Statistics*, 38, 343 – 368.

36. Garay, A. M., Hashimoto, E., Ortega, E. M., and **Lachos, V. H**. (2011). On estimation and influence diagnostics for zero-inflated negative binomial regression models. *Computational Statistics and Data Analysis*, 55, 1304-1318.

37. **Lachos, V. H.**, Bandyopadhyay D. and Dey D. K. (2011). Linear and non-linear mixed-effects models for censored HIV viral loads using normal /independent distributions. Biometrics, 55, 1304-1318.

38. **Lachos, V. H.,** Bandyopadhyay, D. and Garay, A.M. (2011). Heteroscedastic nonlinear regression models based on scale mixtures of skew normal distributions. *Statistics and Probability Letters*, 81, 1208-1217.

39. Abanto-Valle, C. A**., Lachos, V.H**. and Ghosh, P. (2012). A Bayesian term structure modeling using heavy-tailed distributions. *Applied Stochastic Models in Business and Industry,* 28, 430-447.

40. Prates, M. O., Dey, D. K, and **Lachos, V.H**. (2012). A dengue fever study in the state of Rio de Janeiro with the use of generalized skew-normal/independent spatial fields. *The Chilean Journal of Statistics,* 3, 33-45.

41. Zeller, C. B., Carvalho, R. R, and **Lachos, V. H.** (2012). On diagnostics for multivariate measurement error model with asymmetric heavy-tailed distributions. *Statistical Papers*, 53, 665-683.

42. Abanto-Valle, C. A., Migon, H. S. and **Lachos, V. H.** (2012). Stochastic volatility in mean models with heavy-tailed distributions. *Brazilian Journal of Probability and Statistics*, 26, 402–422.

43. Bandyopadhyay, D., **Lachos, V.H.**, Castro, L.M.C and Dey, D. K. (2012). Skew normal independent linear mixed models for censored responses with applications to HIV viral loads. *Biometrical Journal*, 405-425, 2012.

44. **Lachos, V. H.**, Garay, A. M. , Ortega, E. M. and Vilca, L. F. (2012). Estimation and diagnostics for heteroscedastic nonlinear regression models based on scale mixtures of skew-normal distributions. *Journal of Statistical Planning and Inference*, 142, 2149-2165.

45. Barbosa-Cabral, C. R., **Lachos, V. H**. and Madruga, R. M. (2012). Bayesian skew-normal independent linear mixed models with heterogeneity in the random effects population. *Journal of Statistical Planning and Inference*, 212,181-200.

46. Cabral, C. R., **Lachos, V. H**., and Prates, M. (2012). Robust multivariate mixture modelling using scale mixtures of skew-normal distributions. *Computational Statistics and Data Analysis*, 56, 226-246.

47. **Lachos, V. H.**, Cabral, C. R. and Abanto-Valle, C. A. (2012). A noniterative sampling Bayesian method for linear mixed models with normal independent distributions. *Journal of Applied Statistics.* 39, 531-549.

48. Ferreira, G.C., Castro, L. M., **Lachos, V. H.**, and Dias, R. (2013). Bayesian modeling of autoregressive partial linear models with scale mixture of normal errors. *Journal of Applied Statistics*, 40, 1796-1816.

49. **Lachos, V. H.**, Castro, L. M. and Dey, D.K. (2013). Bayesian inference in nonlinear mixed–effects models using normal independent distributions. *Computational Statistics and Data Analysis*, 64, 237–252.

50. Matos, L. A., **Lachos, V.H.**, Balakrishnan, N. and Vilca-Labra, F.(2013). Influence diagnostics in linear and nonlinear mixed-effects models with censored data. *Computational Statistics and Data Analysis*, 57, 450-464.

51. Matos, L. A., Prates, M. O., Chen, M-H. and **Lachos, V. H.** (2013). Likelihood based inference for linear and nonlinear mixed-effects models with censored response using the multivariate-t Distribution . *Statistica Sinica*, 23, 1299-1322.

52. Blás, B.G., **Lachos, V. H.** and Bolfarine, H. (2013). Statistical analysis of controlled calibration model with replicates . *Journal of Statistical Computation and Simulation*, 83, 941-961.

53. Prates, M. O., Cabral, M. O, and **Lachos, V.H.**(2013). Fitting finite mixture of scale mixture of skew-normal distributions . *Journal of Statistical Software*, 54, 1-20.

54. Ferreira, G., Castro, L. M., **Lachos, V. H**., and Dias, R. (2013). Bayesian modeling of autoregressive partial linear models with scale mixture of normal errors*. Journal of Applied Statistics*, 40, 1796-1816.

55. Castro, L. M., **Lachos, V. H.**, Ferreira, G. and Arellano-Valle, R. (2014). Partially linear censored regression models using heavy-tailed distributions: A Bayesian approach. *Statistical Methodology*, 18, 14-31.

56. Cabral, C. R., **Lachos, V. H.**, and Zeller, C.B. (2014). Multivariate measurement error models using finite mixtures of skew-Student t distributions. *Journal of Multivariate Analysis*, 124, 179-198.

57. Galvis, D. M, Bandyopadhyay, D. and **Lachos, V. H.** (2014). Bayesian modeling of mixed zero-one-augmented beta regression models, with applications to periodontology. *Statistics in Medicine,* 33, 3759-3771.

58. Garay, A. M., **Lachos, V. H.**, Vilca, L. F. and Ortega, E. M. (2014). Statistical diagnostics for nonlinear regression models based on scale mixtures of skew-normal distributions. *Journal of Statistical Computation and Simulation*, 84, 1761-1778.

59. Costa, D. R, **Lachos, V. H.,** Bazan, J. L. and Azevedo, C. L. N. (2014) Estimation methods for multivariate Tobit confirmatory factor analysis. *Computational Statistics and Data* Analysis, 79, 248 - 260.

60. Costa, D. R, **Lachos, V. H.** and Prates, M.O. (2014). Generalized linear mixed models for correlated binary data with T-link. *Statistics and Computing*, 24,1111-1123.

61. Zeller, C. B., **Lachos, V. H.**, Vilca, L. F. (2014). On estimation and influence diagnostics for the Grubbs' model with asymmetric heavy-tailed Distributions. *Statistical Papers*, 55, 671-690.

62. Ferreira, C. S, **Lachos, V. H.**, and Bolfarine, H. (2014). Inference and diagnostics in skew scale mixtures of normal regression models. *Journal of Statistical Computation and Simulation*, 85, 517-537.

63. Abanto-Valle, C. A., **Lachos, V. H**, and Dey, D.(2015)*. Bayesian estimation of a skew-t stochastic volatility model*. *Methodology and Computing in Applied Probability,* 17, 721-738.

64. Massuia, M. B., Cabral, M. O, Matos, L.A. and **Lachos, V.H**. (2015). Influence diagnostics for Student-t censored linear regression models . Accepted for publication in *Statistics- A Journal of Theoretical and Applied Statistics*, 49, 1074–

1094.

65. **Lachos, V. H.**, Azevedo, C. L. N, Abanto-Valle, C. A. and Chen, M-H (2015). Quantile regression for censored mixed-effects models with applications to HIV Studies. *Statistics and its Interface*, 8, 203-215.

66. Costa, D. R., Castro, L. M., Prates, M. and **Lachos, V. H.** (2015). Likelihood-based inference for Tobit confirmatory factor analysis using the multivariate t-distribution. *Statistics and Computing, 25, 1163-1183.*

67. Bandyopadhyay, D. Castro, L.M., **Lachos, V. H.** and Pinheiro, H. P. (2015) Joint nonlinear mixed-effects models and diagnostics for censored HIV viral loads with CD4 measurement error. *Journal of Agricultural, Biological, and Environmental Statistics*, 20, 121-139.

68. Garay, A. M., **Lachos, V. H**, and Bolfarine, H. (2015) Bayesian zero-inflated negative binomial regression models: Estimation and case influence diagnostics. *Journal of Applied Statistics*, 42, 1148-1165.

69. Matos, L. A., Bandyopadhyay, D., Castro, L. M. and **Lachos, V. H.** (2015). Influence diagnostics in mixed-effects models with censored data using the multivariate-t distribution. *Journal of Multivariate Analysis*, 141, 104–117.

70. Garay, A. W., **Lachos, V. H.**, Bolfarine, H. and Cabral, C.R. (2015). Bayesian analysis of censored linear regression models with scale mixtures of normal distributions. *Journal of Applied Statistics*, 42, 2694-2714.

71. Motta, M. R. , Galvis, D. M., **Lachos, V. H**, and others (2015) A mixed-effect model for positive responses augmented by zeros. *Statistics in Medicine*, 34, 1761–1778.

72. *Galarza, C.M. and **V. H. Lachos** (2015). Likelihood based inference for quantile regression nonlinear mixed effects models. Accepted for publication in Estadistica (Instituto Interamericano de Estadística), 67, 33-74.*

73. Garay, A. W, **Lachos, V. H.** and Lin, Tsung-I (2016). Nonlinear censored regression models with scale mixtures of normal distributions. *Statistics and its Interface*, 9, 281 – 293.

74. Gonzalez, J. A. C., **Lachos, V. H**., Castro, L.M. and Patriota, A. (2016) *A Confidence Set Analysis for Observed Samples: A Fuzzy Set Approach*. *Entropy, 18, 211-220.*

75. Zeller, C. B, **Lachos, V. H.** and Cabral, C.R. (2016). Robust mixture regression modeling based on scale mixtures of skew-normal distributions. *Test*, 25, 375-396.

76. Ferreira, C. S., **Lachos, V. H**. and Bolfarine, H. (2016). Multivariate skew scale mixtures of normal distributions. *Advances in Statistical Analysis*. 100, 421-444.

77. Blás, B.G., **Lachos, V. H**. and Bolfarine, H. (2016). *Heavy tailed calibration model*

with Berkson measurement errors for replicated data. *Chemometrics and Intelligent Laboratory Systems, 156, 21-35.*

78. Matos, L. A., **Lachos, V. H**. and Castro, L.M. (2016). Censored mixed-effects models for irregularly observed repeated measures with applications to HIV viral loads, *Test*, 25, 627-653.

79. Ferreira C.S. and **Lachos, V. H** .(2016). Nonlinear regression models under skew scale mixtures of normal distributions. *Statistical Methodology, 33, 131–146.*

80. Garay, A. W, **Lachos, V. H.**, Bolfarine, H and Cabral, C.R. (2017). Linear censored regression models with scale mixtures of normal distributions. *Statistical Papers, 58, 247–278.*

81. Galarza, C.M., Bandyopadhyay, D. and **V. H. Lachos** (2017). *Quantile regression for linear mixed models: A stochastic approximation EM approach*. *Statistics and its Interface, 10, 471-482.*

82. Massuia, M.B., Garay*, AMG and **V. H. Lachos** and Cabral, C. R. (2017). *Bayesian analysis of censored linear regression models with scale mixtures of skew-normal distributions* . *Statistics and its Interface, 10, 425-439.*

83. Garay, A.W, Castro, L.M., Leskow, L. and **Lachos, V. H.** (2017) Censored linear regression models for irregularly observed longitudinal data using the multivariate-t distribution. *Statistical Methods in Medical Research,* 26, 542–566.

84. Galvis, D. M., Bandyopadhyay, D. and **Lachos, V. H.** (2017). Augmented mixed models for clustered proportion data. *Statistical Methods in Medical Research,* 26, 880–897.

85. Galarza, C.M., **V. H. Lachos**, Cabral, CRB. and Castro L.M. (2017). *Robust Quantile Regression using a Generalized Class of Skewed Distributions*. STAT, 6, 113-130.

86. **Lachos, V.H**., Cancho, V. G., Neto, F.L. and Dey, D.K. (2017). Bayesian analysis of scale mixtures Log-Birnbaum-Saunders regression models with censored data. *Journal of Statistical Computation and Simulation*, 87, 2002-2022.

87. **Lachos, V. H**., Moreno, E. L., Kun, C. And Barbosa-Cabral, C.R. (2017). Finite mixture modeling of censored data using the multivariate Student-t distribution. *Journal of Multivariate Analysis, 159, 151-167.*

88. ***Lachos, V. H.***, *Larissa, A. M., Barbosa, T., Garay, A.W. and Dey, D. K. (2017).* Influence Diagnostics in Spatial Models with Censored Response*. Environmetrics, 28, 1-21.*

89. Schumacher, L. F., **Lachos, V. H**. and Dey, D. K. (2017). Censored regression models with autoregressive errors: A likelihood-based perspective*. The Canadian*

Journal of Statistics, 45, 375-392.

90. Ordoñez, J. A., **Lachos, V. H.,** Bandyopadhyay, D. and Cabral, C. R. B (2018). Geo-statistical estimation and prediction for censored responses. *Spatial Statistics*, 23, 109-123.

91. Wan-Lun Wang, Tsung-I Lin and **Lachos, V.H.** (2018). Extending multivariate-t linear mixed models for multiple longitudinal data with censored responses and heavy tails. *Statistical Methods in Medical Research*, 27, 48-64.

92. Schumacher, F. L., **Lachos, V.H.** and Vilca-Labra, F.E. (2018). Influence diagnostics for censored regression models with autoregressive errors. *Australian & New Zealand Journal of Statistics*, 60, 209-229.

93. Padilla, J.L., Azevedo, C. L. and **Lachos, V. H.** (2018). Multidimensional multiple group IRT models with skew normal latent trait distributions. *Journal of Multivariate Analysis, 167, 250-268.*

94. Matos, T. B., Garay, A.W.M and **Lachos, V.H.** (2018). Likelihood based inference for censored linear regression models with scale mixtures of skew-normal distributions. *Journal of Applied of Statistics*, 45, 2039-2066.

95. Lin, T. I. **Lachos, V.H**. and Wang, W.L. (2018). Multivariate longitudinal data analysis with censored and intermittent missing responses. *Statistics in Medicine*, 37, 2822-2835.

96. Matos, L.A., **Lachos, V.H**. Cabral, C.R.B. and L. M. Castro (2018). Multivariate measurement error models based on the t-distribution with censored responses. *Statistics: A Journal of Theoretical and Applied Statistics*, *52, 1395-1416.*

97. Lachos, V. H., Prates, M.O., Cabral, C.R.B. and Dey, D. K. (2019). Robust regression modeling for censored data based on mixtures of student-t distributions. *Computational Statistics*, 34, 123–152.

98. Zeller, C.B., Cabral, C.R.B., **Lachos, V. H**. (2019). Finite mixture of regression models for censored data based on scale mixtures of normal distributions. *Advances in Data Analysis and Classification,* 13, *89–116.*

99. Lachos, V. H., Matos, L. A., Castro, L. M. and Chen, M-H. (2019). Flexible longitudinal linear mixed models for multiple censored responses data. *Statistics in Medicine*, 38, *1074-1102*.

100. Castro, L.M., Wang, W. L., **Lachos, V.H**., Bayes, C.L. and Inacio, V. (2019). Bayesian semiparametric modeling for HIV longitudinal data with censoring and skewness. *Statistical Methods in Medical Research*. 28, 1457-1488.

101. Matos, L.A., Castro, LM., **Lachos, V.H.** and Lin, T-I (2019). Heavy-tailed longitudinal regression models for censored data: a likelihood based perspective. *TEST*, 28, 844-878.

102. Wang, W. L., Castro, L. M. **Lachos, V. H**. and Lin, T. I. (2019). Model-based

clustering of censored data via mixtures of factor analyzers. *Computational Statistics and Data Analysis*, 140, 104-121.

103. Benites, L., Maehara, R., **Lachos, V.H.** and Bolfarine, H. (2019). Linear regression models using finite mixtures of skew heavy-tailed distributions. *The Chilean Journal of Statistics*, 10, 21-40.

104. Galarza. C.E, **Lachos, V. H.,** Castro, M.C. and Louzada, N.F. (2020). Quantile regression for nonlinear mixed effects models: A likelihood based perspective. *Statistical Papers, 61, 1281-1307.*

105. Ramos, P. L., Louzada, F., Dey, D. K. and **Lachos, V. H.** (2020). An Extended Poisson Family of Life Distribution: A Unified Approach in Competitive and Complementary Risks. Journal of Applied Statistics**, 47, 306-322.**

106. Goncalves, F. Prates, M.O. and **Lachos, V.H.** (2020). Robust Bayesian model selection for heavy-tailed linear regression models using mixtures. *Brazilian Journal of Probability and Statistics, 34, 51-70.*

107. **Lachos, V.H**., Cabral, CRB. and Garay, A.W.M. (2020+). *Brazilian Journal of Probability and Statistics* **(In Press)**.

108. Ferreira. C.S, **Lachos, V.H**. and Garay, A.M. (2020+). Inference and diagnostics for heteroscedastic nonlinear regression models under skew scale mixtures of normal distributions. *Journal of Applied Statistics* (In Press).

109. Galarza, C. **Lachos, V.H.** and Panpan, Z. (2020+). Logistic quantile regression for bounded outcomes using a new family of heavy-tailed distributions. *Sankhya* – B (In press).

PAPERS SUBMITTED OR UNDER REVISION

1. Ordoñez A.C., Prates, M.O. Matos, L.A. and **Lachos V.H.** (2020). Objective Bayesian analysis for spatial Student-t regression models. Preprint arXiv:2004.04341

2. Schumacher, F. L., **Lachos, V.H.** and Matos, L.A. (2020). Scale mixture of skew-normal linear mixed models with within-subject serial dependence. Preprint arXiv:2002.01040

3. K.A.L. Valeriano, L.A. Matos, M.O. Prates and **V.H. Lachos** (2020+). Likelihood Based Inference for Spatio-Temporal Data with Censored and Missing Responses. Environmetrics (Under review)

4. R.C. Olivari, A.M. Garay, **V.H. Lachos** and L.A. (2020+). Autoregressive Mixed-Effects Models for Censored Data. Journal of Biopharmaceutical Statistics (Under review).

5. Bandyopadhyay, D., Prates, M.O., Zhao, X. and **Lachos,V.H.** (2020+). Spatial skew normal independent models for non-randomly missing clustered data. Statistics in Medicine (Under review).

6. Galarza, C.E., Matos, L.A. and **Lachos, V.H.** (2020+). Likelihood-based inference for

multivariate skew-normal censored responses. Metron (under review).

7. Ye, T. **Lachos, V.H.** , Wang X. and Dey,D.K. (2020+) Comparisons of zero-inflated continuous regression models from a Bayesian perspective. Statistics in Medicine (Under review)

8. da Paz, R. Bazan, J.L., **Lachos, V.H.** and Dey,D.K. (2020+). A Finite Mixture Mixed Proportion Regression Model for Classification Problems in Longitudinal Voting Data. Journal of Applied Statistics (Under review)

9. de Alencar, F.H., Matos, L.A. and **Lachos, V.H.** (2020+). Finite mixture of censored linear mixed models for irregularly observed longitudinal data. The Canadian Journal of Statistics (Under review).

10. De Alencar F.H, Galarza, C.E. Matos, L.A. and **Lachos V.H.** (2020+). Finite mixture modeling of censored and missing data using the multivariate skew-normal distribution. Advances and Data Analysis and Classification (Under review).

11. Nunez, M., **Lachos, V.H.** and Matos, L. (2020+). Estimation and diagnostic for partially censored regression models based on heavy-tailed distributions. Statistics and its Interface (Under review).

12. Schumacher, F. L., **Lachos, V.H.** Castro, L.M.C. and Matos, L.A. (2020). A Censored Time Series Model for Responses in the Unit Interval. (submitted)

13. Bem. Mattos, L.A. Matos and **V.H. Lachos** (2020). Likelihood-based inference for mixed-effects models with censored response using skew-normal distribution (submitted)

14. **Lachos, V. H.**, Galarza, C. E., Lin, T. I. and Wang, W. L. (2020). High-Order Moments of Truncated Multivariate Student-t Distribution Based on Recurrence Relations. (submitted)

15. Ordonez, J.A, Galarza, C.E and **Lachos, V.H.** (2020). Spatial Censored Regression Models in R: The CensSpatial Package. (submitted)

16. C.S. Ferreira, H. Bolfarine and **V.H. Lachos** (2020). Linear Mixed Models Based on Skew Scale Mixtures of Normal Distribution. (submitted)

17. C.E. Galarza, L.A. Matos, D.K. Dey & **V.H. Lachos** (2019). On Moments of Folded and Truncated Multivariate Extended Skew-Normal Distributions. (submitted).

18. B. Mattos, L.A. Matos and V.H. Lachos (2020). A Semiparametric Mixed-Effects Model for Censored Longitudinal Data (submitted)

19. **V.H. Lachos,** J.L. Bazan and L.M. Castro (2019). The skew-t Censored Regression Model: Parameter Estimation Using the EM Algorithm. (submitted)

20. Padilla, J.L., Azevedo, C.L. and **Lachos, V.H.** (2020). Parameter recovery for a skew multidimensional item response model: a comparison of MCMC algorithms and measurement of some effects of interest. (submitted)

21. C.E. Galarza, L.A. Matos & **V.H. Lachos** (2020). Moments of the doubly truncated selection elliptical distributions with emphasis on the unified multivariate skew-t distribution. (submitted).

22. **V.H. Lachos**, M. Galea-Rojas and C.B. Zeller (2020). Likelihood inference-based for mixed-effects models using the generalized hyperbolic distribution.

GRADUATE STUDENT SUPERVISION

Master Student Supervised

1. **Edgar Javier Lopez Moreno:** Campinas State University (**MS thesis**, 2016). Finite Mixtures of Censored regression models. CAPES – Brazil.

2. **Fernanda Lang Schumacher:** Campinas State University (**MS thesis**, 2016). Censored Autoregressive Models. CAPES – Brazil.

3. **Thalita do Bem Mattos:** Campinas State University (**MS thesis**, 2016). C*ensored Regression Models with Scale Mixtures of Skew-Normal Distributions*. CAPES – Brazil.

4. **Thais Silva Barbosa:** Campinas State University (**MS thesis**, 2016). Spatial Models for Censored Data. CAPES – Brazil.

5. **Monique Bettio Massuia:** Campinas State University (**MS thesis** , 2015). Censored Regression Models. FAPESP- Brazil.

6. **Christian Eduardo Galarza Morales** Campinas State University (**MS thesis**, 2015). Quantile Regression for Mixed Effects Models. CAPES- Brazil.

7. **Larissa Avila Matos:** Campinas State University (**MS thesis**, 2012). Linear Mixed Effects Models for Censored Data with Normal and Student-t Distributions. CAPES -Brazil.

8. **Aldo W. Medina Garay:** Campinas State University (**MS thesis**, 2010). Nonlinear Models with Scale Mixtures of Skew-Normal Distributions. FAPESP – Brazil.

9. **Rodrigo Marreiro Basso:** Campinas State University (**MS thesis**, 2009). Finite Mixtures Using Scale Mixtures of Skew-Normal Distributions. CAPES –Brazil.

10. **Rignaldo Rodrigues Carvalho**: Campinas State University (**MS thesis**, 2010). Local Influence Analysis of Measurement Error Model with Scale Mixtures of Skew-Normal Distributions. CAPES -Brazil.

11. **Alejandro Monzon Montoya:** Campinas State University (**MS thesis**, 2009). Zero Inflated Models for Counts Data. CAPES- Brazil.

12. **Jose Alejandro Ordoñez:** Campinas State University (**MS thesis**, 2017). Spatial models for censored data. CAPES- Brazil.

13. **Marcela Lemus.** Campinas State University. (**MS thesis**, 2018). Semiparametric regression models for censored data . CAPES- Brazil.

14. **Rommy Camasca Olivari**. Federal University of Pernambuco. (**MS thesis**, 2019). Autoregressive Linear Mixed Effects Models for cendiored data. CAPES- Brazil.

15. **Katherine Andreina Loor Valeriano**. Campinas State University. (**MS thesis**, 2019). Spatio-Temporal Data for Censored data. CAPES- Brazil.

PhD Student Supervised

1. **Camila Borelli Zeller:** Campinas State University (**PhD**, 2009). Influence Diagnostics in Linear Models with Scale Mixtures of Skew-Normal Distribution (with Filidor Vilca Labra). CAPES-Brazil.

2. **Betsabé Blas:** São Paulo State University (**PhD**, 2010). Asymmetrical Measurement Errors Models. (with Heleno Bolfarine). CAPES – Brazil.

3. **Aldo William Medina Garay**: Campinas State University(**PhD**, 2014). Censored Regression Models with Heavy Tails Distributions. CNPq-Brazil.

4. **Denise Reis Costa:** Campinas State University (**PhD**, 2014). *Estimação Robusta em modelos de Variáveis Latentes para dados Censurados*. CAPES-Brazil.

5. **Diana Milena Galvis Soto:** Campinas State University (**PhD**, 2015). Zero-One augmented regression Models for Proportional Data. CAPES – Brazil.

6. **Isabel Cristina Gomes**. Federal University of Minas Gerais (**PhD**, 2015). Influence and Diagnostics for Censored Regression Models. (with Lourdes Contreras). CAPES-Brazil.

7. **Larissa Avila Matos**: campinas State University (**PhD**, 2016). Censored Regression Models for Mixed effects models. FAPESP – Brazil.

8. **José Alejandro Gonzalez Campos:** Campinas State University (**PhD,** 2016). Statistics and Fuzzy set Theory. CAPES- Brazil.

9. **Luis Enrique Benites Sanchez:** São Paulo State University (**PhD,** 2018). Finite Mixtures of Regression Models. CNPq- Brazil.

10. **Christian E. Galarza Morales.** Campinas State University. (**PhD**, 2020). Moments of Multivariate Truncated Distributions. FAPESP- Brazil.

11. **Tairan Ye**. University of Connecticut. **PhD** student (**PhD**, 2019).

Postdoctor Supervised

1. **Larisa Avila Matos.** Campinas State University. (**Post-doc,** 2016-2017). Mixed effects models for censored data. FAPESP-Brazil.

2. **Marcos Oliveira Prates:** Campinas State University (**Post-doc,** 2016). Skew-normal/independent random fields. FAPESP-Brazil.

3. **Aldo William Medina Garay**: Campinas State University (**Post-doc**, 2014-2015). Measurement Error Models for Censored Data. FAPESP – Brazil.

4. **Celso Romulo Barbosa Cabral**: Campinas State University (**Post-doc** 2014-2015). Finite Mixture of Skew distributions. CNPq – Brazil.

5. **Javier Ferrua Vivanco**: Campinas State University (**Post-doc**, 2013). *Modelos de regressão para dados censurados usando distribuições de misturas da escala skew-normal.* CNPq-Brazil

Visiting Scholar Supervised

1. **Luis Mauricio Castro Cepero f**rom University of Concepcion (2014-2015). *Modelagem flexível de modelos longitudinais complexos usando distribuições skew-elípticas*. **FAPESP**-Brazil.

2. **Jorge Luis Bazan Guzmán** from Catholic University of Lima (2011-2012). Bayesian Analysis for Data in the Unit Interval. **CAPES/CNPq** – Brazil.

3. **Celso Romulo Barbosa Cabral** from Federal University of Manaus (2015-2016). *Modelagem Flexível em Regressão para Dados com Censura*. **CNPq** – Brazil.

Ongoing supervision

1. **Thalita do Bem Matos.** Campinas State University. **PhD** student (2016→present).

2. **Jose Alejandro Ordoñez.** Campinas State University. **PhD** student (2017→present).

3. **Francisco Hildemar Calixto de Alencar.** Campinas State University. **PhD** student (2016→present).

4. **Fernanda Lang Schumacher.** Campinas State University. **PhD** student (2017→present).

AWARD WITH GRADUATE STUDENTS

1. My Student **Denise Reis Costa** received the Best Poster Presentation Award during the II CONBRATRI (*Congresso Brasileiro de Teoria de Resposta ao Item*). Bahia-Brazil, December-2011.

2. My Student **Christian Eduardo Galarza Morales** received the IASI Award for excellence for the best young research in the area of Statistics in the American Region during the Word Congress of Statistics (ISI-2015). Rio de Janeiro - Brazil, July-2015.

3. My PhD Student **Diana Milena Galvis Soto** received a Honorary Mention for the best thesis in the area of Mathematics and Statistics defended in the period 2014-2015. **CAPES Thesis Award.** Brasilia-Brazil, December-2015**.**

4. My Student **Larissa Avila Matos** received a Honorary Mention for the best Master Thesis defended in the period 2010-2011. SINAPE AWARD. Joao Pessoa - Brazil, July-2012.

5. My Student **Christian Eduardo Galarza Morales** received an **a**ward for the best Master Thesis defended in the period 2014-2015. National Symposium of Probability and Statistics - SINAPE AWARD. Porto Alegre- Brazil, July-2016.

6. My PhD Student **Diana Milena Galvis Soto** received an Award for the best Doctoral Thesis defended in the period 2014-2015. National Symposium of Probability and Statistics - SINAPE AWARD. Porto Alegre - Brazil, July-2016.

7. My Student **Christian Eduardo Galarza Morales** received the Jan Tinbergen **a**ward during the Word Congress of Statistics (ISI-2017). Marrakech - Morocco, July-2017.

8. My Student **Fernanda Lang Schumacher** received second award prize for the best Master Thesis defended in the period 2016-2017. SINAPE AWARD. Aguas de São Pedro - Brazil, July-2018.

9. My PhD student **Christian Eduardo Galarza**, a visiting scholar in our department, received the "Best LACSC -2019 Paper Award" in the 4th Latin American Conference for Statistical Computing. Guayaquil-Ecuador, May-2019.

10. My PhD student **José Alejandro Ordoñez**, received the "Best EBEB -2020 Poster Award" in the 15th Brazilian Meeting of Bayesian Statistics. São Paulo, Brazil, March-2020.

COURSES TAUGHT

Campinas State University-Brazil

Undergraduate courses

1. Probability
2. Basic Statistics
3. Statistics for Experimentalists
4. Quality Control
5. Econometrics
6. Introduction to Probability Models
7. Time Series
8. Generalized Linear Models
9. Inference
10. Computational Methods in Statistics
11. Scientific Methodology

Graduate courses

12. Linear Models
13. Generalized Linear Models
14. Advanced Inference
15. Computational Methods in Statistics
16. Asymptotic Theory

University of Connecticut-USA

Graduate courses

17. Mathematical Statistics I
18. Mathematical Statistics II
19. Advanced Inference: Inference II

Undergraduate courses

20. Introduction to Statistics II
21. Intro to Mathematical Stats I
22. Intro to Mathematical Stats II

PROFESSIONAL PRESENTATION

INVITED SPEAKER AND SHORT COURSES

1. Skew-normal/independent regression models: A Bayessian approach. Oral presentation. 9o. Encontro Brasileiro de Estatistica Bayesiana EBEB (ISBRA). Maresias-Brazil, Feb-2008. **(Invited Speaker).**

2. Scale mixtures of skew-normal distribution with applications in regression models. 18o **SINAPE**, July 2008, Aguas de São Pedro, São Paulo- Brazil (I**nvited Speaker**).

3. "Approximate inferences for skew-normal independent nonlinear mixed effects models". *IV skew workshop*. *Pontifícia Universidade Católica de Chile*, Santiago, **CHILE**, 2011 (**Invited speaker**).

4. "Linear mixed models and their extensions". *II Encuentro Nacional de Matemáticas e Estadística*, U*niversidad de Ibagué*, **COLOMBIA**, 2012 (**Invited speaker).**

5. "Likelihood-based inference for mixed-effects models with censored response using the multivariate-t Distribution". *Departamento de Estadística, Universidad de Concepción,* **CHILE**, 2012 (**Invited speaker**).

6. "Multivariate measurement error models using finite mixtures of skew-Student t distributions" *5th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM 2012),* Oviedo – **SPAIN**, 2012 (**Invited speaker**).

7. "Bayesian mixture modeling of censored partially linear models". *II Jornada Internacional de Probabilidad e Estadistica (JIPE-II)*, Lima – **PERU**, 2012 (**Invited speaker**).

8. Likelihood-based Inference for Mixed-Effects Models with Censored Respons Using the Multivariate-t Distribution". **Oral presentation**. 2o Colóquio de Matemática do Sudeste, January 2013, São Carlos, SP, Brazil. (**Invited Speaker**).

9. "Análise de dados censurados sob distribuições simétricas com aplicações no R". 3o Workshop em Análise de Sobrevivência e Aplicações (**WASA**-2013), November 2013, Campinas State Univeristy, Campinas, SP, Brazil. (**Short course**).

10. "Augmented mixed beta regression models for periodontal proportion data". Departamento de Estadística, Universidad de Concepción, **CHILE**, 2013 (**Invited speaker**).

11. "Bayesian inference in mixed effects models for censored data with applications to HIV studies". Department of Applied Mathematics, Institute of Statistics. National Chung Hsing University, Taichung – **TAIWAN**, 2013 (**Invited speaker**).

12. *Modelos Não Lineares Assimétricos"*. XIII Escola de Modelos de Regressão-**EMR**, de 02/24/2013 a 02/24/2013, São Sebastião, SP, Brazil. (**Short course**).

13. "Likelihood-based inference for mixed-effects models with censored response using the multivariate-t distribution". Department of Statistics, Graduate Institute of Statistics and Actuarial Science, Feng Chia University, Taichung – **TAIWAN**, 2013 (**Invited speaker**).

14. "Likelihood-based Inference for mixed-effects models with censored response using the multivariate-t distribution, *Joint Statistical Meeting* (JSM-2013) . Montreal – **CANADA**. 2013 (**Invited speaker**).

15. "Censored mixed effects models with censored responses using heavy tails distributions*". 6th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM-2013),* London – **UK**, 2013 (**Invited speaker**).

16. "Likelihood-based inference for mixed-effects models with censored response using the multivariate-t distribution", *The Ninth ICSA International Conference: Challenges of Statistical Methods for Interdisciplinary Research and Big Data***. HONG KONG** , 2013 (**Invited speaker**).

17. "Robust mixture regression modeling based on scale mixtures of skew-normal distributions", *II Workshop on Model-Based Clustering and Classification (MBC2-2014)*. Catania-**ITALY** , 2014 (**Invited speaker**).

18. "Likelihood-based Inference for Mixed-Effects Models with Censored Response Using the Multivariate-t Distribution". XXI Simpósio Nacional de Probabilidade e Estatística (**SINAPE**), July 2014, Hotel Praiamar, Ponta Negra, Natal-RN, BRAZIL. (**Invited Speaker).**

19. "Análisis de datos censurados sobre distribuciones simétricas con aplicaciones en R" XI *Congreso Latinoamericano de Sociedades de Estadística* (CLATSE-XI), La Serena – **CHILE**, 2014 (**Short course**).

20. "Misturas Finitas de Distribuições Assimétricas". XIV Escola de Modelos de Regressão-**EMR,** Maresias, SP-Brazil **(Short course).**

21. "Quantile regression for mixed-effects models with censored responses, ICSA/Graybill *Joint Statistical Meeting* (2015). **COLORADO-USA** 2015 (**Invited speaker**).

22. "Bayesian analysis of augmented mixed beta regression models for periodontal proportion data". 60th ISI World Statistics Congress (WSC), **Rio de Janeiro-Brazil**, 2015. (**Invited speaker**).

23. "Likelihood-based inference for mixed-effects models with censored response using the multivariate-t distribution".Department of Statistics, University of Southampton, Southampton - **UK**, December 2015 (**Invited speaker**).

24. “Heavy-tails censored regression models: A likelihood based perspective ”. 8th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM-2015), London – **UK**, December 2015 (**Invited speaker**).

25. “Análise de dados censurados sob distribuições simétricas com aplicações no R”. 2o Encontro Goiano de Probabilidade e Estatística (**ENGOPE**-2015), November 2015, Universidade Federal de Goiás, Goiânia/GO - Brazil. (**Short course**).

26. “Likelihood-based Inference for Mixed-Effects Models with Censored Response Using the Multivariate-t Distribution”. 2o Encontro Goiano de Probabilidade e Estatística (**ENGOPE**-2015),November 2015, Universidade Federal de Goiás, Goiânia/GO – Brazil.(**Invited Speaker - Opening conference**)

27. “Heavy-tails nonlinear censored regression models: A likelihood based perspective”. XXII Simpósio Nacional de Probabilidade e Estatística (**SINAPE**), July 2016, Porto Alegre-RGS, BRAZIL. (**Invited Speaker**).

28. “Heavy-tails nonlinear censored regression models: A likelihood based perspective ”12th Congresso Latinoamericano de las Sociedades de Estadística (CLATSE-2016), Lambayeque – **PERU**, 2016 (**Invited speaker - Opening conference**).

29. “Modelos de Regresión Cuantílica: Teoría y Aplicaciones”. ”12th Congresso Latinoamericano de las Sociedades de Estadística (CLATSE-2016), Lambayeque – **PERU**, 2016 (**Short course**).

30. “Heavy-tails nonlinear censored regression models: A likelihood based perspective” Department of Statistics, University of Connecticut – **USA**, January 2017.

31. “Finite mixture modeling of censored data using the multivariate Student-t distribution”. Department of Applied Mathematics, Institute of Statistics. National Chung Hsing University, Taichung – **TAIWAN**, 2017 (**Invited speaker**).

32. “Heavy-tails censored regression models: A likelihood based perspective”. Department of Statistics, Graduate Institute of Statistics and Actuarial Science, Feng Chia University, Taichung – **TAIWAN**, 2017 (**Invited speaker**).

33. “Heavy-tails censored regression models: A likelihood based perspective”, *1st International Conference on Econometrics and Statistics (EcoSta 2017)***. HONG KONG** , 2017 (**Invited speaker**).

34. “Robust Finite Mixture Modeling of Censored Data Using the Multivariate Student-t Distribution”, Modern Modeling Methods Conference *(MMM 2017)***.** University of Connecticut – **USA** , 2017 (**Invited speaker**).

35. “A Multivariate Student-t Regression Model with Measurement Errors for Censored Data”, 2017 Conference on Lifetime Data Science *(LIDA 2017)***.** University of Connecticut – **USA,** 2017 (**Invited speaker**).

36. "Linear regression models using finite mixtures of skew heavy-tailed Distributions", 2017 Flexible Statistical Models For a Skewed World of Data *(Skew Workshop 2017)***.** Pontificia Universidad Catolica de Chile – **Chile,** 2017 (**Invited speaker**).

37. "Robust Finite Mixture Modeling of Censored Data Using the Multivariate Student-t Distribution", 2017. 10th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM-2017), London – **UK**, December 2017 (**Invited speaker**)

38. "Heavy-tailed longitudinal regression models for censored data: a robust parametric approach" Department of Biostatistics, Virginia Commonwealth University – **USA**, April 2018

39. "Heavy-tailed longitudinal regression models for censored data: a robust parametric approach" Department of Statistics, Universidad de Colombia – **Colombia**, May 2018.

40. "Heavy-tailed longitudinal regression models for censored data: a robust parametric approach", Modern Modeling Methods Conference *(MMM 2018)***.** University of Connecticut – **USA** , 2018 (**Invited speaker**).

41. "Finite mixture modeling of censored data using the multivariate Student-t distribution", *2st International Conference on Econometrics and Statistics (EcoSta 2018)***. HONG KONG** , June 2018 (**Invited speaker**).

42. "Censored regression models for complex data". *Departamento de Estadística, Universidad Catolica de Santiago,* **CHILE**, August 2018 (**Invited speaker**).

43. "Finite Mixture of Skewed Distributions". Second International Conference in Stochastic Processes and Random Phenomena and Their Applications: In Tribute to the 65th birthday of Professor Dipak K. Dey (CIPEFA-2018), LIMA – **PERU**, October 2018 (**short course**).

44. "Mixed effects Model for Complex Data" Department of Statistics, UMASS/UCONN colloquium – **USA**, October 2018. (**Invited speaker**).

45. "Heavy-tailed longitudinal regression models for censored data: a robust parametric approach", Department of Statistics, University of Padua**, Italy**, 2018 (**Invited speaker**).

46. 'Autoregressive skew-normal/independent linear mixed models", 11th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM-2018), Pisa – **Italy**, December 2018 (**Invited speaker**).

47. "Mixed effects Model for Complex Data", XVI Escola de Modelos de Regressão-**EMR,** Pirenópolis, GO– **Brazil**, March 2019 (**Plenary speaker**).

48. "Finite mixture modeling of censored data using the multivariate skew-normal distribution".

The Third International Conference on Econometrics and Statistics (EcoSta 2019), National Chung Hsing University, **Taichung - Taiwan**, June 2019. (**Invited Speaker**)

49. "Finite mixture modeling of censored data using the multivariate skew-normal distribution". The 3rd International Conference on Statistical Distributions and Applications (ICOSDA 2019), Grand Rapids, MI - USA, October 2019. (**Invited speaker**).

50. "Mixed effects Model for Complex Data", VI Workshop em Analises de Sobrevivência e Aplicações-**WASA,** Piracicaba, SP– **Brazil**, November 2019 (**Plenary speaker**).

51. 'Likelihood-based Inference for Mixed-Effects Models with Censored Response Using Skew-Normal Distribution", 12th International Conference of the ERCIM WG on COMPUTING & STATISTICS (ERCIM-2019), London – **UK**, December 2019 (**Invited speaker**).

52. 'Likelihood-based Inference for Mixed-Effects Models with Censored Response Using Skew-Normal Distribution", *The 11th ICSA International Conference: Innovation with Statistics and Data Science***. Hangzhou-China**, December 2019 (**Invited speaker**).

53. 'Mixed Effects Models for Complex Data", *V Jornada Peruana-Internacional de Investigación en Ingeniería***. Trujillo-Peru**, January 2020 (**Plenary Speaker**).

CONFERENCES

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41. "Joint Nonlinear Mixed-Effects Models and Diagnostics for Censored HIV Viral Loads with CD4 measurement Error". **Oral presentation**. XIII Escola de Modelos de Regressão-**EMR**, February 2013, São Sebastião, SP, Brazil.

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45. "Bayesian analysis of censored linear regression models with scale mixtures of normal distributions". **Poster presentation**. XII Brazilian Meeting on Bayesia Statistics (**EBEB** XII), March 2014, Atibaia, SP, Brazil.

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OTHER PROFESSIONAL SERVICES

- **Organizing Conferences or Workshops.**

1. 3rd Workshop in Survival Analysis and Applications (WASA). Nov. 27 - Nov. 29, 2013 in Campinas-Brazil. President of the Organizing Committee. http://www.ime.unicamp.br/~wasa/

2. The 14th Brazilian School of Regression Models (14 EMR). March. 02 until March. 05, 2015 in Campinas-Brazil. President of the Organizing Committee and President of the Scientific Committee. http://www.ime.usp.br/~abe/emr2015/

3. The 15th Brazilian School of Regression Models (15 EMR). March. 26 until March. 29, 2017 in Goiania-Brazil. President of the Scientific Committee. http://www.redeabe.org.br/emr2017/

4. Model-Based Clustering and Classification (MBC2). 5-7 September, 2016 in Catania-Italy. Member of the Scientific Committee. http://mbc2.unict.it/

5. The 4th Workshop in Survival Analysis and Applications (WASA-2017). Bahia-Brazil. Member of the Scientific Committee.

6. The 14th Brazilian Meeting of Bayesian Statistics (EBEB-2018). Rio de Janeiro-Brazil. Member of the Scientific Committee.

7. The 3rd International Conference on Econometrics and Statistics (EcoSta 2019). Taichung-Taiwan. Member of the Scientific Committee.

- **Referee Services**
  1. Journal of the American Statistical Association
  2. Journal of Computational and Graphical Statistics
  3. Biostatistics
  4. Journal of Agricultural, Biological and Environmental Statistics.
  5. Statistical Modeling.
  6. Bayesian Analysis
  7. Journal of Multivariate Analysis.
  8. Statistics (Berlin).
  9. Communication in Statistics: Simulation and Computation.
  10. Communication in Statistics: Theory and Methods
  11. Communication in Statistics: Case Studies and Data Analysis
  12. Journal of Statistical Computation and Simulation.
  13. Computational Statistics, Computational Statistics & Data Analysis.
  14. Statistics and Probability Letters.
  15. Brazilian Journal of Probability and Statistics.
  16. Statistics and its Interface
  17. Statistics and Computing
  18. Scandinavian Journal of Statistics
  19. Test
  20. Metrika
  21. Journal of Applied Statistics
  22. Statistical Papers
  23. Revista Brasileira de Biometria
  24. Advances in Statistical Analysis.
  25. Advances in Data Analysis and Classification.
  26. Biometrical Journal.
  27. Environmetrics
  28. Applied Stochastic Models in Business and Industry.
  29. The Chilean Journal of Statistics
  30. Neurocomputing
  31. Journal of Statistical Theory and Practice.
  32. REVSTAT
  33. Quantitative Finance
  34. Studies in Nonlinear Dynamics and Econometrics
  35. Iranian Journal of Science and Technology Transactions A: Science
  36. Digital Signal Processing
  37. Statistical Methods & Applications
  38. Journal of Biopharmaceutical Statistics
  39. Soft Computing
  40. Journal of the Royal Statistical Society, Series A.
  41. Journal of the Royal Statistical Society, Series C.
  42. Sankhya A and B

43. Statistics in Medicine
44. Information Sciences
45. Environmental and Ecological Statistics
46. Mathematics and Computers in Simulations
47. Metron.
48. Statistical Methods in Medical Research.
49. Computational Economics
50. Statistical Analysis and Data Mining

- **Member** of the Inter-American Statistical Institute (IASI), Brazilian Statistical Society (ABE), American Statistical Association (ASA), International Statistical Institute (ISI), International Chinese Statistical Association (ICSA) and International Society for Bayesian Analysis (ISBA), New England Statistical Society (NESS), Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

- **Editorial Services**

  1. Associate Editor of S A N K H Y A Series B (2016 – Present)

  2. Associate Editor of Brazilian Journal of Probability and Statistics (2014 – Present)

  3. Associate Editor of Stats, Open Access Journal of Statistical Sciences

- **Google Scholar Citation**

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