CURRICULUM VITAE

Adriano Zanin Zambom

ADDRESS:

Office: Santa Susana Hall 126, Prairie St, Northridge, CA 91330
Phone: Office: – Cell: (760) 698 7012
E-mail: adriano.zambom@gmail.com/adriano.zambom@csun.edu

EDUCATION:

- **Ph.D. in Statistics** Pennsylvania State University, USA 2012
  Title: Hypothesis Testing and Variable Selection in Nonparametric Regression
  Advisor: Michael G. Akritas
  Financial Support: FULBRIGHT/CAPES/Penn State

- **M.Sc. in Statistics** State University of Campinas (UNICAMP), Brazil 2008
  Title: Nonparametric Estimation of an Autonomous Vehicle Trajectory
  Advisor: Nancy Lopes Garcia
  Financial Support: CNPQ/FAPESP

- **B.Sc. in Statistics** State University of Campinas (UNICAMP), Brazil 2006

- **Technician** Data Processing/Programming Languages, COTUCA, Brazil 2001

PROFESSIONAL EXPERIENCE:

- Associate Professor: Fall 2021 – Current
Department of Mathematics– California State University Northridge

- Senior Data Scientist: Summer 2022 – Summer 2023
Google

- Assistant Professor: Spring 2018 – Spring 2021
Department of Mathematics– California State University Northridge

- Assistant Professor: Fall 2015 – Fall 2017
Department of Mathematics and Statistics – Loyola University Chicago

- Lecturer: Spring 2015
Department of Statistics – Penn State University

- Assistant Professor: Spring 2013 – Fall 2014
Department of Statistics – UNICAMP (State University of Campinas-Brazil)

- Post-Doctoral Fellow: Fall 2012 – Winter 2013
Department of Statistics – UNICAMP (State University of Campinas-Brazil)

- Research Assistant/Consultant: Spring 2011 – Spring 2012
Statistical Consulting Center (SCC) - Pennsylvania State University

- Instructor: Stat 200 Elementary Statistics (Penn State) – (Su11)

- Teaching Assistant:

1. Stat 200 Elementary Statistics (Penn State) - (S10, F10)
2. Stat 240 Introduction to Biometry (Penn State) – (F08, S09, F09)
3. ME210/ME310 Probability I and II (UNICAMP) – (S07, F07)

- English Teacher: Jul 2002 – Jul 2008
Several Language Institutes

TEACHING:

Graduate Level

1. Stochastic Processes (CSUN) – (S24, S22, F18)
2. Regression Analysis (CSUN) – (S20, S21)
3. Multivariate Statistics (CSUN) – (F23, S19)
4. Regression Analysis (Loyola) – (F17)
5. Statistical Consulting (Loyola) – (F17)
6. Nonparametric Statistical Methods (Loyola) – (S17)
7. Multivariate Statistical Analysis (Loyola) – (F16)
8. Probability and Statistics II (Loyola) - (S16)
9. Probability and Statistics I (Loyola) - (F15)
10. Inference (UNICAMP) - (F14)

Undergraduate Level

1. Introductory Statistics for STEM (F24)
2. Introductory Statistics for Business (S24, F23)
3. Introduction to Probability and Statistics (S24, F23)
4. Statistical Modeling (CSUN) – (S22, F21, F24)
5. Introductory Statistics (CSUN) – (S18*, F21)
6. Introductory Probability (CSUN) – (F18, F21)
7. Statistical Foundations of Machine Learning (CSUN) – (S21)
8. Mathematical Methods for Business (CSUN) – (S20, S21)
9. Mathematical Statistics (CSUN) – (F19)
10. Applied Statistics I (CSUN) – (F19)
11. Independent Studies – (CSUN) – (F19)
12. Practical Experience in Mathematics (CSUN) – (S19)
13. Actuarial Seminar (Loyola) – (S16, F17)
14. Fundamentals of Statistics (Loyola) – (S17)
15. Undergraduate Seminar (Loyola) – (S17)
16. Pre-Calculus (Loyola) – (Su16)
17. Introduction to Biostatistics (Loyola) – (S16)
18. Introduction to Probability and Statistics (Loyola) - (F15, F16)
19. Probability for Engineers (Penn State) - (S15-2 sections)
20. Stochastic Processes (Penn State) - (S15)

21. Design of Experiments (UNICAMP) - (S14)
22. Probability I (UNICAMP) - (S14)
23. Nonparametric Methods (UNICAMP) - (F13)
24. Descriptive Statistics (UNICAMP) - (S13)
25. Introduction to Biostatistics (Penn State) - (Su11)

    * = 120 students

ADVISING AND MENTORING:

Graduate Theses/Research Supervised

1. Kenneth Gunderson – Masters (Current)
2. Beck Saunders – Masters (Current)
3. Parsa Hashemi-Alavi – Masters (F23-Sumer 24)
4. Jennifer Kampe – Masters (F19-S20. Next position: PhD Student at Duke).
5. Josephine Wood – Masters. (F17, Loyola)
6. Jongwook Kim – Masters. (F16, S17, F17, Loyola)
7. Amanda Flaxman – Masters. (S17, Loyola)
8. Alexandria Melton – Masters. (S16, F16, Loyola)
9. Preethi Ravikumar – Masters. (F15, S16, Loyola)
10. Feifei Zhao – Masters. (F15, S16, Loyola)
11. Julian Alfonso Acuña Collazos - Ph.D. Thesis (S13, F13, S14, F14, S15, UNICAMP)

Undergraduate Theses/Research Projectes Supervised

1. Victoria Miteva Undergraduate Research – Comp. Sci. (S24, CSUN)
2. Sho Yoshikawa – Undergraduate Research/Practical Experience in Mathematics (F23, CSUN)
3. Nicolas Arena Rivera - Undergraduate Research/Practical Experience in Mathematics (S21, CSUN)
4. Chance Vandergeugten - Undergraduate Research/Practical Experience in Mathematics (S21, CSUN)
5. Chad Jackson - Undergraduate Research/Practical Experience in Mathematics (S21, CSUN)
6. Zisheng Wang - Undergraduate Research/Practical Experience in Mathematics (S21, CSUN)
7. Daniel Rud – Undergraduate Research (S19, F19, S20, CSUN)
8. Angelica Perez – Undergraduate Research (S20, CSUN)
9. Joshua Poernomo – Undergraduate Research (F19, CSUN)
10. Michael Munje – Undergraduate Research – Comp. Sci. (S19, CSUN)
11. Abigail Winchell – Practical Experience in Mathematics/Undergrad Research (S19, CSUN)
12. Xianghong Luo – Undergraduate Research. (S17, Loyola)
13. Corey Kuhn – Undergraduate Research/Indep. Study (S16, Loyola)
14. João Victor Amadeu - Senior Project. (S14, F14, UNICAMP)
15. Fabiana Azevedo - Senior Project. (F14, UNICAMP)
16. Claudia Miriam Fidelis - Senior Project. (F14, UNICAMP)
17. Laura Penedos - Senior Project. (F13, UNICAMP)

PUBLISHED PAPERS:

1. Zambom, A.Z. and Rud, D. (2024) Context Tree Classification with Application to Linguistic Rhythm from Written Texts. *Accepted at Journal of Statistical Computation and Simulation*.

2. ZAMBOM, A. Z., Kim, J. (2022) New Algorithms and Software for Significance Controlled Variable Selection. *Statistics, Optimization & Information Computing, 10(3), 949-967.*

3. ZAMBOM, A. Z., Collazos, J., and Dias, R. (2022) Selection of the Number of Clusters in Functional Data Analysis. *Journal of Statistical Computation and Simulation, 92(14), 2980-2998 (https://doi.org/10.1080/00949655.2022.2053855).*

4. ZAMBOM, A. Z., Wang, Q., Dias, R. (2022) A Basis Approach to Surface Clustering. *Statistics, Optimization & Information Computing, vol. 10, n. 2, pp. 339-351.*

5. ZAMBOM, A. Z., Kim, S. and Garcia, N.L. (2021) Variable Length Markov Chain with exogenous covariates. *Journal of Time Series Analysis (http://doi.org/10.1111/jtsa.12615)*.

6. ZAMBOM, A. Z. and Wang, Q. (2021) Testing Independence between Discrete Random Variables. *Communications In Statistics – Theory and Methods (https://doi.org/10.1080/03610926.2021.1934026)*.

7. ZAMBOM, A. Z. and Seguin, B. (2021) Fastest motion planning for an unmanned vehicle in the presence of accelerating obstacles. *Computational and Applied Mathematics. 40, 119. https://doi.org/10.1007/s40314-021-01511-9*

8. ZAMBOM, A. Z. and Kim*, J. (2020) Testing for Additivity in Nonparametric Heteroscedastic Regression Models. *Journal of Nonparametric Statistics, vol 32, n. 3, pp. 793-813*.

9. ZAMBOM, A. Z. and Gel, Y. (2020) Hypothesis testing for Exogenous Covariate Trends in Volatility Models. *Electronic Journal of Statistics, vol 14, n. 2, pp. 2529-2550.*

10. Kuhn, C. and ZAMBOM, A.Z. (2020) Perception of Crime and Actual Data: A Spatial and Temporal Analysis of Crime in Chicago. *Electronic Journal of Applied Statistical Analysis, vol 13, No 1*.

11. ZAMBOM, A. Z. and Matthews, G. J. (2019) Sure Independence Screening in the Presence of Missing Data. *Statistical Papers, vol. 62, Issue 2, pp. 817-845.*

12. Wang, Q. and ZAMBOM, A.Z. (2019) Subsampling-Extrapolation Bandwidth Selection in Bivariate Kernel Density Estimation. *Journal of Statistical Computation and Simulation, vol. 89, Issue 9, pp. 1740-1759*.

13. Todd, T., Miodrag, N., Bougher, S. C., and ZAMBOM, A. Z. (2019) A Peer Mentored Physical Activity Intervention: An Emerging Practice for Autistic College Students. *Autism in Adulthood, vol 1, n. 3, pp. 232-237.*

14. ZAMBOM, A. Z. and Kim*, J. (2018) Consistent Significance Controlled Variable Selection in High-Dimensional Regression. *Stat*, vol. 7, Issue 1. http://dx.doi.org/10.1002/sta4.210
    * graduate student

15. ZAMBOM, A. Z., Seguin, B. and Zhao*, F. (2018) Robot Path Planning in a Dynamic Environment with Stochastic Measurements. *Journal of Global Optimization, vol. 73, issue 2, pp. 389-410.*
    * graduate student

16. ZAMBOM, A. Z. (2018) Optimal Mobile Robot Path Planning in the Presence of Moving Obstacles. *International Journal of Vehicle Autonomous Systems, vol. 14, No. 1.*

17. ZAMBOM, A. Z., Collazos*, J. A. A. and Dias, R. (2018) Functional data clustering via hypothesis testing K-means. *Computational Statistics, vol. 34, issue 2, pp. 527-549.*
    ** graduate student*

18. ZAMBOM, A. Z. and Akritas, M. G. (2018) Hypothesis Testing Sure Independence Screening for Nonparametric Regression. *Electronic Journal of Statistics, vol.12, no. 1, 767-792.*

19. Miller-Ensminger*, T. Garreto, A., Brenner, J., Thomas-White, K. ZAMBOM, A. Z., Wolfe, A. and Putonti, C. (2018) Bacteriophages of the Urinary Microbiome. *Journal of bacteriology, 200(7), e00738-17. https://doi.org/10.1128/JB.00738-17.*

20. ZAMBOM, A. Z. and Kim, S. (2017) A Nonparametric Test for Heteroscedasticity in Multivariate Regression. *The Canadian Journal of Statistics, vol. 45, pp. 425-441.*

21. ZAMBOM, A. Z. and Kim, S. (2017) Lag selection and Model Validation in Nonparametric Autoregressive Conditional Heteroscedastic models. *Journal of Statistical Planning and Inference, vol. 186, pp. 13-27.*

22. ZAMBOM, A. Z. and Akritas, M. G. (2017). NonpModelCheck: An R Package for Nonparametric Lack-of-Fit Testing and Variable Selection. *Journal of Statistical Software*, vol. 77, issue 10. http://dx.doi.org/10.18637/jss.v077.i10

23. ZAMBOM, A. Z. and Ravikumar*, P. (2017) A comparative study of additive and nonparametric regression estimators and variable selection procedures. *International Journal of Mathematical and Computational Sciences, vol. 11, n. 3.*
    * graduate student

24. Kim, S. and ZAMBOM, A.Z. (2016) A Nonparametric Hypothesis Test for Heteroscedasticity. *Journal of Nonparametric Statistics,* vol. 28, pp. 752-767*.*

25. Collazos*, J. A. A., Dias, R. and ZAMBOM, A. Z. (2016). Consistent Variable Selection for Functional Regression Models. *Journal of Multivariate Analysis. vol. 146, pp. 63-71.*

* graduate student

26. ZAMBOM, A. Z., Collazos*, J. A. A. and Dias, R. (2016) Constrained Optimization with Stochastic Feasibility Regions Applied to Vehicle Path Planning. *Journal of Global Optimization,* vol. 64, pp. 803-823.
    * graduate student

27. Souza, A. Z. Z., ZAMBOM, A. Z., Abboud, K.Y., Reis, S.K., Tannihao, F., Guadagnini, D., Saad, M.J.A. and Prada, P.O. (2015) Oral Supplementation with L-Glutamine Alters Gut Microbiota of Obese and Overweight Human Adults: A Pilot Study. *Nutrition*, vol. 31(6), 884-889.

28. ZAMBOM, A. Z. and Akritas, M. G. (2015) Nonparametric Significance Testing and Group Variable Selection. *Journal of Multivariate Analysis*, v. 133, pp. 51-60.

29. ZAMBOM, A. Z. and Akritas, M. G. (2014). Nonparametric Lack-of-fit Testing and Consistent Variable Selection. *Statistica Sinica,* vol. 24, pp. 1837-1858.

30. ZAMBOM, A. Z**.** and Dias, R. (2013) A Review of Kernel Density Estimation with Applications to Econometrics*. *International Econometric Review*, vol. 5, pp. 20.
    * 55 Citations

31. Dias, R., Garcia, N.L. and ZAMBOM, A. Z. (2012) Monte Carlo Algorithm for Trajectory Optimization based on Markovian Readings. *Computational Optimization and Applications*. vol. 51, pp. 305-321.

32. Dias, R., Garcia, N.L. and ZAMBOM, A. Z. (2010) A Penalized Nonparametric Method for Nonlinear Constrained Optimization based on Noisy Data. *Computational Optimization and Applications*. vol. 45, pp. 521-541.

SUBMITTED PAPERS:

1. Zambom A.Z. and Hashemi-Alavi, P.: Variable Selection for Variable Length Markov Chains with Exogenous Covariates.Under review at STAT.

PAPERS IN PREPARATION:

1. ZAMBOM, A. Z. and Wang, Q.: Model Testing and Variable Selection in Nonparametric Volatility Models
2. ZAMBOM, A. Z. and Kampe, J.: Tensor Single Index Models (from masters thesis)
3. ZAMBOM, A.Z. and Gunderson, K. (Masters student): Shrinkage Estimation for Variable Length Markov Chains with Exogenous Variables.
4. ZAMBOM A.Z. and Saunders, B. (Masters student): Covariate Selection in GARCH-X Models

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PhD Committees:

1. PhD Committee member – Claudia Koda – PhD in Statistics at UNICAMP. Feb 28th, 2023.

2. PhD Committee member – Alex Rodrigo – PhD in Statistics at UNICAMP. Nov 28th, 2018.

Masters Thesis Committees:

1. CSUN - Masters Thesis Defense Committee
   Student: Arin Khudaverdyan – Dec 2024
2. CSUN - Masters Thesis Defense Committee
   Student: Yujia Zhang – July 2024
3. CSUN - Masters Thesis Defense Committee
   Student: Tatiana Shahinian – April 2024
4. State University of Campinas – Brazil – Masters Thesis Defense Committee
   Student: Marilia Rocha – March 2024
5. CSUN – Masters Thesis Defense Committee
   Student: Karine Bagdasaryan – May 2022
6. CSUN – Masters Thesis Defense Committee
   Student: Thomas Nguyen – Dec 1st 2021
7. CSUN – Masters Thesis Defense – Chair
   Student: Jennifer Kampe – Spring 2020
8. CSUN - Masters Thesis Defense Committee
   Student: Lorenzo Rulli - Jul 1st 2019
9. CSUN - Masters Thesis Defense Committee
   Student: Phuc Nguyen - Dec 3rd 2019

Masters Comprehensive Exam Committee:

1. Regression Comprehensive Exam - CSUN – Oct 2021 - Design, apply, and grade.
3. Stochastic Processes and Regression Comprehensive Exam - CSUN – Oct 2021 Design, apply, and grade.
3. Stochastic Processes and Regression Comprehensive Exam - CSUN – April 2021 Design, apply, and grade.
4. Stochastic Processes and Regression Comprehensive Exam - CSUN – Nov 2020 Design, apply, and grade.
5. Regression and Multivariate Statistics Comprehensive Exam - CSUN – Sep 2020 Design, apply, and grade.
6. Multivariate Statistics Comprehensive Exam - CSUN - Aug 2019
Design, apply, and grade.

ACKNOWLEDGEMENTS FOR CONTRIBUTION IN PAPERS

1. Yan M. Chan, Ibrahim M. Moustafa, Jamie J. Arnold, Craig E. Cameron, David D. Boehr (2016), Long-range communication between different functional sites in the picornaviral 3C protein, *Structure*, v. 24, pp. 509-517.

TECHNICAL REPORTS

1. Dias, R. Garcia, N.L. and ZAMBOM, A.Z. (2007) An Optimal Path for an Autonomous Vehicle: A Nonparametric Approach. No 20/07 July 2007.

SOFTWARE

1. VLMCX – R Package (2022)

2. *SignifReg* – R package (2017). Co-author with Jongwook Kim.

3. *NonpModelCheck* – R package (2012). Author and Maintainer.

GRANTS

1. NSF Statistics Program - $150,000 – PI – (2024-2026) - Title: Inference and Variable Selection in Volatility Models

2. CSUN Research, Scholarship, and Creative Activity Award – Three units of reassigned time – (2024-2025)

3. CSUN Summer Research Grant - $3000 (Summer 2021)

4. CSUN Probationary Faculty Support Program Award – Three units of reassigned time – (2021-2022)

5. CSUN Research, Scholarship, and Creative Activity Award – Three units of reassigned time – (2021-2022)

6. CSUN Summer Research Grant - $3000 (Summer 2020).

7. NSF(PUMP) and CSUN Math Dept. Research Grant - $4000 plus $4000 for 2 undergraduate students – (Fall 2019).

8. NSF Program IUSE. “Data Science Program with Career Support and Connections to Industry” - $838,157 - Co-PI.

9. CSUN Research, Scholarship, and Creative Activity Award – Three units of reassigned time – (2018-2019)

10. FAEPEX Travel Grant (#519292756) U$ 1000 – Visiting Researcher at Penn State (Summer 14)

11. FEPESP Travel Grant – INSPS, Cadiz Spain (2014)

12. FAPESP Travel Grant – Regression Models School - Maresias, Brasil (S13)

13. (PI) FAEPEX Research Grant (#57313) R$ 15000 (2013)
    - Title: Nonparametric Screening for High-Dimensional Covariate Space

HONORS AND AWARDS:

1. Best Paper Award, 19th International Conference on Computational and Statistical Sciences, Rome, Italy. (March 2017)

2. Post-doctoral Fellowship, FAPESP. (2012-2013)

3. Ph.D. Fellowship, Fulbright/CAPES. (2008-2012)

4. M. Sc. Fellowship, FAPESP. (2007)

5. M. Sc. Fellowship, CNPQ. (2006)

6. Scientific Initiation Fellowship, CNPQ. (2005)

HONORS AND AWARDS OF ADVISEES (while under supervision):

1. Feifei Zhao - Research Experience for Master's Students Fellowship (Loyola-Spring 16)
2. Daniel Rud and Joshua Poernomo – Research Fellowship (CSUN-Fall 19)

ACADEMIC SERVICE:

1. CSUN – Lecturer Evaluation Committee – 2024/2025

2. NSF Reviewer Panelist – Data Science Corps - 2024

3. CSUN – Math Dept. Graduate Committee – 2023/2024

4. CSUN – Math Dept. Graduate Committee – 2021/2022

5. CSUN - Curriculum development: designed a new upper division course Math 441 – Advanced Probability and Stochastic Processes (with Ali-Alsharadqa, Majid Mojirsheibani and Mark Schilling) – Fall 2021.

6. CSUN - Curriculum development: (Appointed by the Chair of the Math Dept. together with Ali Al-Sharadqah) Design changes in the Math 340 course from 3 to 4 units to include Statistics content and creation of a new 400 level course in Probability Theory and Stochastic Processes. – 2019 - 2020.

7. CSUN – Math Dept. Assessment Committee – Fall 2020 – Spring 2021

8. CSUN - Judge at CSUNposium – March 27th 2020.

9. CSUN – Grievance Committee member – Fall 2019 – Spring 2020

10. CSUN - Covering another instructor's lecture (MATH140) - October 16th 2019.

11. CSUN - Marshal at CSUN Commencement - May 6th 2019

12. CSUN - Participation in the development of a new GE Upper division course in Statistics with Ali Al-Sharadqah, Mark Schilling and Majid Mojirsheibani. – Spring 2019.

13. CSUN - Judge at CSUNposium - April 5th 2019

14. CSUN - Lead in the ad-hoc committee developing the Minor in Data Science program at CSUN. Designed 2 new 400-level courses. Designed the structure of the Minor program in collaboration with Adam Kaplan and Li Liu from the C.S. Dept. - Spring 2018 – Spring 2019

15. CSUN - Advising/ Mentoring students on research at community colleges: LA Valley College, Fullerton College, Pierce College, Mission College, College of the Canyons, Antelope Valley College. Fall 2018 – Spring 2019.

16. CSUN - Round Table Host – DataJam - 09/21/2018.

17. CSUN - DataJam CSUN 2018 organizing committee member. – Fall 2018.

18. CSUN - Faculty Senate Member – 2018 to Current.

19. CSUN - Covering another instructor's lecture (MATH140) - April 25th 2018.

20. CSUN - Judge at CSUNposium – April 6th 2018.

21. CSUN - Participation in the Graduate Committee: Design syllabus of new Statistics course (Nonparametric Statistics MATH542) – Spring 2018.

22. CSUN - Data Science Initiative meeting - 03/09/2018

23. Chair of search committee: Tenure-track position in Statistics at Loyola (2017-2018)

24. Loyola - Recruitment - Open House Loyola (Nov 07th, 2015; Oct 30th, 2016; Nov 12 th 2017)
    - Demonstrated and introduced prospective students to the details of the programs offered by the Department of Mathematics and Statistics at Loyola.

25. Loyola - Member of the Math and Stat Instructor Hiring Committee (Su2017)
    - Review of candidates, interview and selection of a new lecturer of statistics.

26. Loyola - Member of Committee to choose a new book for STAT 103 - Core Stats Course (Feb-Apr 2017)
    -Determine content desired for the course, evaluate possible books and online assessments.

- After the choice of the book, the committee performed an assessment of the content of each chapter of the book, deciding what to include and what to exclude.

27. Loyola - Member of Hiring Search Committee (Oct-Nov 2016)
    - Review of candidates, interview and selection of a new lecturer of statistics.

28. Loyola - Creator and Maintainer of the Linkedin Group: “Loyola Math and Stats Alumni and Students”.

29. Loyola - Recruitment - Loyola Departments Fair (April 03rd-2016, April 09th-2017)
    - Demonstrated and introduced prospective students to the details of the programs offered by the Department of Mathematics and Statistics at Loyola.

30. Loyola - Member of the **Pre-health Advisory Committee**: 10 advisees (S16, S17)
    - Held three to four meetings of about one hour each, individually with each of the 10 students. Responsible for providing an accurate assessment of each applicant’s suitability for medical school, including reasoning competencies, inter and intrapersonal competencies and science competencies. Responsible for writing a report on each applicant. Participated in the 3 day meeting held in May 2016.

31. Loyola - Member of the Organization Committee DataFest (Feb – April 2016, 2017)
    - Organized the ASA Datafest at Loyola, including advertising in classrooms and to other universities in Illinois, organization of the students, participation in organization meetings, design and preparation of the official event t-shirts, participation in all days of the event coordinating students.
    - Number of Participants: ~60

32. Loyola - Participation in the search for new tenure-track faculty position in Statistics (S16)

33. Penn State - TA Training Committee
    - Member of the committee that organized training sessions for Teaching Assistants

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OTHER PROFESSIONAL ACTIVITIES:

1. **Session Chair (2024)** - Symposium on Data Science and Statistics
   - Session: Advanced Statistical Modeling

2. **Invited Session Organizer (2023)** – **AMS Spring Western Sectional Meeting**
   - Session: Special Session on Data Analysis and Predictive Modeling

3. **Session Chair – SPE (2021)** – XXV, Congress of the Portuguese Statistical Society
   - Session: Mathematical Statistics and Learning

4. **Invited Session Organizer – ISNPS (2018)** – International Society for Nonparametric Statistics Conference
   - Session: Nonparametric Variable Selection

5. **Invited Session Organizer - ICSA (2017)** – International Chinese Statistical Association Symposium
   - Session: Variable Selection and Dimension Reduction for High-Dimensional Models

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REVIEWER FOR:

1. Algorithms (1 paper – 2024)
2. COST (1-paper 2024)
3. Communication in Statistics - Simulation and Computation (2 papers – 2024)
4. Annals of the Institute of Statistical Mathematics (1 paper 2023)
5. Communications in Statistics – Simulation and Computation (3 Paper 2023, 1 Paper-2017, 1 Paper 2019, 1 paper 2021, 1 paper 2022)
6. Mathematics: Probability and Statistics (2 Papers 2023)
7. Statistics and Computing (1 Paper – 2021)
8. Electronic Journal of Statistics (1 Paper 2021)
9. Entropy (1 Paper 2021)
10. Environmetrics (1 Paper 2020)
11. Stat (1 Paper-2013, 1 Paper 2020)
12. Statistics in Medicine (1 Paper-2019)
13. Journal of Applied Statistics (1 Paper-2018)
14. Computational Statistics (1 Paper-2018)
15. IEEE Robotics and Automation Magazine (1 Paper-2018)
16. Brazilian Biometric Journal (1 Paper-2016)
17. Biometrika (1 Paper-2014)
18. Brazilian Journal of Probability and Statistics (1 Paper-2014)

INVITED TALKS:

1. **Invited Talk**, “Data Science Minor at CSUN” – CSUN Math Dept Open House - 03/08/2024.
2. **Invited Talk**, “Linguistic Rhythm in Written Texts” – CSUN Math Dept Open House - 05/06/2022.
3. **Invited Talk**, “P-Values: How and when to use them” – DataJam - 10/04/2019.
4. **Invited Talk**, “Sure Independence Screening in the Presence of Missing Data” – Seminars in High Dimensional Data - State University of Campinas – 08/14/2019.
5. **Invited Talk**, “Covariate Enabled Markov Chains” – Statistics Dept. Seminar - State University of Campinas – 08/07/2019.
6. **Invited Seminar**, “Variable Selection in Regression with Lots of Predictors: Screening” – CSUN Statistics Seminar – 11/2018.
7. **Invited Talk**, “Prediction: How do I predict the unknown” – DataJam - 09/28/2018.
8. **Invited Talk**, “Hypothesis Testing Sure Independence Screening for Nonparametric Regression” - 4th Conference of the International Society for Nonparametric Statistics, Salerno, Italia (June 2018)

9. **Invited Seminar**, "The Research Projects in Academia" - Honors 102 – Science and Society, Loyola (Mar 2016).
10. **Invited Seminar**, "Variable Selection in Nonparametric Regression" - Statistics Dept. Seminar - Miami University Ohio (Jan 2014).
11. **Invited Talk,** "Nonparametric Model Checking and Variable Selection" - **9th ERPEM** (Regional Meeting of Probability and Mathematical Statistics) – Balneário Solis, Uruguay (Dec 2013).
12. **Invited Talk, "**The Academic Career in Statistics**"** Statistics Week, State University of Campinas – UNICAMP (Oct 2012).
13. **Invited Talk, "**Graduate Degree in Statistics**" -** Statistics Week**,** State University of Campinas – UNICAMP (Oct 2007).

CONFERENCES:

1. **2024, June 4 -7 Symposium Data Science and Statistics,** Richmond, Virginia.
   Oral Presentation: Algorithms and Software for Significance Controlled Variable Selection
   Session Chair: Advanced Statistical Modeling

2. **2023, November 10-11 CSU Joint Mathematical Meeting,** Bakersfield, CA.

   Oral Presentation: Selection of the Number of Clusters in Functional Data Analysis

3. **2022, November 11-12 CSU Joint Mathematical Meeting,** Northridge, CA.

   Oral Presentation: Context tree classification with application to linguistic rhythm from written texts

4. **2021, October 13-16 XXV Congress _ Portuguese Statistical Society,** Evora, Portugal – virtual.

   Oral Presentation: Testing Additivity in Nonpamametric Regression Models

5. **2021, September 13-17 VI Congresso Latino Americano de Matematicos,** Montevideo, Uruguay – virtual.

6. **2021, June 23-25 - 5th International Workshop on Functional and Operational Statistics –** Brno, Czech Republic

   Oral Presentation: A Basis Approach to Surface Clustering

7. **2019, July 22-27 – XIII Brazilian School of Probability** – Sao Carlos, Brazil.

   Oral Presentation: Variable Length Markov Chains with Exogenous Covariates.

8. **2019, MREC^3: Math Research Experiences in Community Colleges Conference** – CSUN.

9. **2018, June 11-15 – 4th (ISNPS) Conference of the International Society for Nonparametric Statistics** - Salerno, Italia.

Invited Talk: Hypothesis Testing Sure Independence Screening for Nonparametric Regression

10. **2017, June 5-8 – IEEE Congress on Evolutionary Computation** - San Sebastian, Spain.

11. **2017, May 31 to June 2 – Thera Stochastics** – Santorini, Greece.

12. **2017, March 5-6 – 19th International Conference on Computational and Statistical Sciences** – Rome, Italy.

    Oral Presentation: A Comparative Study of Additive and Nonparametric Regression Estimators and Variable Selection Procedures.

13. **2016 – 19th Focus on Teaching and Learning Conference –** Loyola University Chicago.

14. **2014 – 2nd ISNPS (International Society of Nonparametric Statistics)** – Cadiz, Spain.

    Oral Presentation: Nonparametric Lack-of-Fit Testing and Consistent Variable Selection.

15. **2013 – 9th ERPEM** (Regional Meeting of Probability and Mathematical Statistics) – Balneário Solis, Uruguay

    Invited Talk: Nonparametric Model Checking and Variable Selection

16. **2013 - 17th EBP** (Brazilian School of Probability) – Mambucaba, RJ-Brazil

    Poster: On the stochasticity of feasible regions in genetic algorithms.

17. **2011 - JSM** (Joint Statistical Meetings) – Miami Beach, FL-USA

    Oral Presentation: Variable Selection in Nonparametric Regression.

18. **2008 – 18th SINAPE** (National Symposium of Probability and Statistics) – Estância de São Pedro, SP-Brazil

    Poster: Nonparametric curve estimation of an autonomous vehicle trajectory- Markovian readings.

19. **2007 - 11th EBP** (Brazilian School of Probability) – Maresias, SP-Brazil

    Poster: Nonparametric curve estimation of an autonomous vehicle trajectory.

20. **2007 - SWPTA** (School and Workshop on Probability Theory and Applications) – Campos do Jordão, SP-Brazil

    Poster: Nonparametric curve estimation of an autonomous vehicle trajectory.

21. **2007 – 4th ERPEM** (Regional Meeting of Probability and Mathematical Statistics) – Balneário Solis, Uruguay

    Oral Presentation: Nonparametric curve estimation of an autonomous vehicle trajectory.

22. **2006 – 17th SINAPE** (National Symposium of Probability and Statistics) – Caxambu, MG-Brazil

    Poster: Detecção de ritmo em textos escritos de português europeu moderno e português brasileiro - dados pareados. (Rhythm detection in written texts in modern European Portuguese and Brazilian Portuguese – paired data)

23. **2005 - XIII Congresso Interno de Iniciação Científica da UNICAMP (Unicamp's Scientific Initiation Conference) –** Campinas, SP-Brazil

    Poster: Detecção de ritmo em textos escritos de português europeu moderno e português brasileiro - dados pareados. (Rhythm detection in written texts in modern European Portuguese and Brazilian Portuguese – paired data)

24. **2005 - 9th EBP** (Brazilian School of Probability) – Maresias, SP-Brazil

LANGUAGES:

- **Portuguese:** Fluent
- **English:** Fluent
- **Spanish:** Basic

OTHER UNIVERSITY/COMMUNITY ACTIVITIES:

1. CSUN – Volunteer at the President's Picnic – Aug 29th 2019

2. CSUN Intramural Soccer (S19)
   - Participating team (composed of a mix of interdisciplinary students and faculty) of intramural soccer.

3. Loyola Intramural Soccer (F15, S16, F16, S17, F17)
   - Participating team (composed of a mix of interdisciplinary students and faculty) of intramural soccer at Loyola Lake Shore Campus.

4. Loyola Intramural Volleyball (F15, S16, F16, S17, F17)
   - 2 times champion team (composed of a mix of interdisciplinary students and faculty) of intramural volleyball at Loyola Lake Shore Campus.

5. Loyola Intramural Basketball (S16)
   - Participating team (composed of a mix of interdisciplinary students and faculty) of intramural basketball at Loyola Lake Shore Campus.