

# LUCAS DA CUNHA GODOY

Department of Ecology and Evolutionary Biology, University of California Santa Cruz  
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**Languages:** Portuguese (Native), English (Fluent), Spanish (Conversational)

## RESEARCH INTERESTS

Spatial and spatiotemporal statistics · Data fusion · Bayesian inference · Computational statistics · Environmental statistics · Species distribution modeling

## APPOINTMENTS

<b>Postdoctoral Researcher</b>	<b>Jun 2024–Present</b>
<i>Department of Ecology and Evolutionary Biology, UC Santa Cruz</i>	<i>Santa Cruz, CA</i>
<ul style="list-style-type: none"><li>Analyzing climate-driven range shifts in species distributions using process-based models.</li></ul>	

## EDUCATION

<b>Ph.D. in Statistics</b>	<b>2024</b>
<i>University of Connecticut</i>	<i>Storrs, CT</i>
<ul style="list-style-type: none"><li><b>Dissertation:</b> <i>Hausdorff-Gaussian Process with Spatial and Spatiotemporal Applications</i></li><li><b>Advisor:</b> Prof. Jun Yan</li></ul>	

<b>M.Sc. in Statistics</b>	<b>2023</b>
<i>University of Connecticut</i>	<i>Storrs, CT</i>
<ul style="list-style-type: none"><li><b>Advisor:</b> Prof. Jun Yan</li></ul>	

<b>Master in Statistics</b>	<b>2019</b>
<i>Universidade Federal de Minas Gerais</i>	<i>Belo Horizonte, Brazil</i>
<ul style="list-style-type: none"><li><b>Thesis:</b> <i>Testing Spatial Association Between Two Types of Polygons</i></li><li><b>Advisor:</b> Prof. Renato Assunção</li></ul>	

<b>B.S. in Statistics</b>	<b>2016</b>
<i>Universidade Federal do Rio Grande do Sul</i>	<i>Porto Alegre, Brazil</i>
<ul style="list-style-type: none"><li><b>Thesis:</b> <i>Introduction to Geostatistical Modeling for Counting Data: Parameter Estimation with Different MCMC Algorithms</i></li></ul>	

## AWARDS AND HONORS

• Honorable Mention, Student Paper Competition, ASA ENVR Section	2024
• Summer Doctoral Dissertation Fellowship, University of Connecticut	2023
• Travel Award, EnviBayes Workshop, Colorado State University	2023
• Teaching Award, Department of Statistics, University of Connecticut	2022
• Travel Award, ISBA World Meeting	2022
• Honorable Mention, 1st Shiny Contest, RStudio	2019
• Best Paper Award, 1st Conference on Statistics and Data Science (CSDS)	2018
• Winner, 1st CEPESP Data Challenge	2017

## PUBLICATIONS

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### Articles under review

- [1] R. M. Assunção and **L. d. C. Godoy**, “Testing independence of spatial point processes in irregular polygonal domains,” *Spatial Statistics*, 2025.
- [2] A. Fredston, D. Ovando, **L. d. C. Godoy**, J. Kong, B. Muffley, J. T. Thorson, and M. Pinsky, “Dynamic range models improve the near-term forecast for a marine species on the move,” *Ecology Letters*, 2025. DOI: [10.32942/X24D00](https://doi.org/10.32942/X24D00). EcoEvoRxiv: [2208.07900](https://doi.org/10.1101/2208.07900) (Ecology and Evolutionary Biology). [Online]. Available: <https://ecoevorxiv.org/repository/view/8863/>.
- [3] **L. d. C. Godoy**, A. Fredston, M. Morales, R. M. W. J. Bandara, and M. L. Pinsky, “drmr: A Bayesian approach to Dynamic Range Models in R,” *DOUBLE-BLIND REVIEW*, 2025.
- [4] **L. d. C. Godoy**, G. J. Matthews, and J. Yan, “A review of competitive structure analytics in sports,” *International Statistical Review*, 2025.
- [5] **L. d. C. Godoy**, M. O. Prates, and J. Yan, “Voronoi linkage between mismatching voting stations and census tracts in analyzing the 2018 Brazilian presidential election data,” *Spatial Statistics*, 2025.
- [6] S. S. Pandya, **L. d. C. Godoy**, C. S. Alexander, D. Schneider, and K. Harknett, “Using worker surveys to detect labor standards non-compliance,” *Statistics and Public Policy*, Mar. 2025.

### Peer-Reviewed Articles–Methodology

- [7] L. Michelin, **L. d. C. Godoy**, H. S. Ramos, and M. O. Prates, “Fast mixture spatial regression: A mixture in the geographical and feature space applied to predict porosity in the Post-salt,” *Spatial Statistics*, vol. 65, p. 100 873, 2025, ISSN: 2211-6753. DOI: [10.1016/j.spasta.2024.100873](https://doi.org/10.1016/j.spasta.2024.100873). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2211675324000642>.
- [8] **L. d. C. Godoy**, R. M. Assunção, and K. A. Butler, “Testing the spatial association of different types of polygons,” *Spatial Statistics*, vol. 51, p. 100 695, 2022, ISSN: 2211-6753. DOI: [10.1016/j.spasta.2022.100695](https://doi.org/10.1016/j.spasta.2022.100695). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2211675322000562>.
- [9] M. O. Prates, D. R. M. Azevedo, **L. d. C. Godoy**, and D. Bandyopadhyay, “Can Gaussian Markov random fields handle spatial confounding?” *Journal of the Indian Statistical Association*, vol. 59, no. 2, pp. 197–220, 2021. [Online]. Available: [https://drive.google.com/file/d/1rmxyH\\_7IDp8KFtIGxb6Jw\\_aunNbMKB3A/view](https://drive.google.com/file/d/1rmxyH_7IDp8KFtIGxb6Jw_aunNbMKB3A/view).

### Pre-Print Articles and Software

- [10] **L. d. C. Godoy**, *smile: Spatial misalignment, interpolation, linkage, and estimation*, R package version 1.1.0, 2025. DOI: [10.32614/CRAN.package.smile](https://doi.org/10.32614/CRAN.package.smile). [Online]. Available: <https://CRAN.R-project.org/package=smile>.
- [11] **L. d. C. Godoy**, M. Prates, and F. Quintana, *A note on defining positive definite functions*, 2025. arXiv: [2502.15146](https://arxiv.org/abs/2502.15146) [stat.ME]. [Online]. Available: <https://arxiv.org/abs/2502.15146>.
- [12] G. G. Hernández, J. R. Seemann, **L. d. C. Godoy**, M. Slot, and C. García-Robledo, *Heat tolerance of tropical herbaceous plants increases with elevation*, 2025. DOI: [10.1101/2025.03.12.642681](https://doi.org/10.1101/2025.03.12.642681). bioRxiv: <https://www.biorxiv.org/content/early/2025/03/14/2025.03.12.642681.full.pdf>. [Online]. Available: <https://www.biorxiv.org/content/early/2025/03/14/2025.03.12.642681>.
- [13] **L. d. C. Godoy**, *sapo: Spatial association of different types of polygon*, R package version 0.8.0, 2024. [Online]. Available: <https://CRAN.R-project.org/package=sapo>.

## Peer-Reviewed Articles–Applications

- [14] S. Abu-Arquib, A. Hariharan, S. Banankhah, **L. d. C. Godoy**, P. Liu, C. Kuo, and F. Uribe, “Accuracy of full arch scans using the itero element 2® intra-oral scanner: A clinical study,” *Journal of Orthodontics*, vol. 52, no. 2, pp. 142–149, 2025, PMID: 39135489. DOI: [10.1177/14653125241268755](https://doi.org/10.1177/14653125241268755). eprint: <https://doi.org/10.1177/14653125241268755>. [Online]. Available: <https://doi.org/10.1177/14653125241268755>.
- [15] K. L. Moriarty, K. Manfredi, P. Carrel, E. Kryzanski, D. A. Schwartz, **L. d. C. Godoy**, C. Kuo, and A. Shields, “Findings of reduced head circumference with COVID-19 infection in the third trimester: A retrospective cohort study,” *Biomedicines*, vol. 13, no. 4, 2025, ISSN: 2227-9059. DOI: [10.3390/biomedicines13040832](https://doi.org/10.3390/biomedicines13040832). [Online]. Available: <https://www.mdpi.com/2227-9059/13/4/832>.
- [16] I. M. Al-Naggar, M. Antony, D. Baker, L. Wang, **L. d. C. Godoy**, C. Kuo, M. O. Fraser, P. P. Smith, M. Xu, and G. A. Kuchel, “Polyploid superficial uroepithelial bladder barrier cells express features of cellular senescence across the lifespan and are insensitive to senolytics,” *Aging Cell*, vol. 24, no. 2, e14399, 2025, e14399 ACE-23-0923.R2. DOI: [10.1111/accel.14399](https://doi.org/10.1111/accel.14399). eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/accel.14399>. [Online]. Available: <https://onlinelibrary.wiley.com/doi/abs/10.1111/accel.14399>.
- [17] M. L. Sieger, **L. d. C. Godoy**, T. E. Moore, C. Nichols, E. J. Goldsborough, S. Chen, M. Terplan, B. A. Griffin, and S. W. Patrick, “Connecticut’s novel prenatal substance exposure policy is associated with declining CPS reports and foster placements,” *Health Affairs*, vol. 44, no. 7, pp. 821–829, 2025, PMID: 40623260. DOI: [10.1377/hlthaff.2024.01160](https://doi.org/10.1377/hlthaff.2024.01160). eprint: <https://doi.org/10.1377/hlthaff.2024.01160>. [Online]. Available: <https://doi.org/10.1377/hlthaff.2024.01160>.
- [18] S. Abu-Arquib, R. Greene, S. Greene, K. Laing, C. Kuo, **L. d. C. Godoy**, and F. Uribe, “Retrospective evaluation of the success rate and factors associated with the stability of alveolar ridge orthodontic miniscrews: Pilot study,” *Journal of the World Federation of Orthodontists*, vol. 13, no. 4, pp. 181–188, 2024, ISSN: 2212-4438. DOI: <https://doi.org/10.1016/j.ejwf.2024.02.001>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2212443824000122>.
- [19] S. Abu-Arquib, D. Al-Moghrabi, C. Kuo, **L. d. C. Godoy**, and F. Uribe, “Perceptions and utilization of tele-orthodontics: A survey of the members of the American Association of Orthodontists,” *Progress in Orthodontics*, vol. 25, no. 1, p. 16, 2024. DOI: [10.1186/s40510-024-00516-4](https://doi.org/10.1186/s40510-024-00516-4).
- [20] T. Andreyeva, T. E. Moore, **L. d. C. Godoy**, and E. L. Kenney, “Federal nutrition assistance for young children: Underutilized and unequally accessed,” *American Journal of Preventive Medicine*, vol. 66, no. 1, pp. 18–26, 2024, ISSN: 0749-3797. DOI: <https://doi.org/10.1016/j.amepre.2023.09.008>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0749379723003549>.
- [21] G. A. Fryc, **L. d. C. Godoy**, C. Kuo, and A. G. Lurie, “Prevalence of likely retro-odontoid pseudotumor in patients receiving dental CBCT examinations,” *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, vol. 137, no. 3, pp. 301–309, 2024, ISSN: 2212-4403. DOI: [10.1016/j.oooo.2023.11.005](https://doi.org/10.1016/j.oooo.2023.11.005). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2212440323007435>.
- [22] R. Irsheid, **L. D. C. Godoy**, C. Kuo, J. Metz, C. Dolce, and S. Abu-Arquib, “Comparative assessment of the clinical outcomes of clear aligners compared to fixed appliance in class II malocclusion,” *Clinical Oral Investigations*, vol. 28, no. 8, pp. 1–10, 2024. DOI: [10.1186/s12903-018-0695-z](https://doi.org/10.1186/s12903-018-0695-z).
- [23] C. Wilson, P. Taxel, D. Shafer, A. Tadinada, **L. d. C. Godoy**, C. Kuo, and M. Freilich, “Cone beam computed tomography outcomes in patients diagnosed with compromised bone health undergoing dental implant therapy and bone augmentation,” *The Journal of Prosthetic Dentistry*, 2024, ISSN: 0022-3913. DOI: [10.1016/j.prosdent.2024.10.030](https://doi.org/10.1016/j.prosdent.2024.10.030). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0022391324007248>.

- [24] S. Abu-Arquib, A. Ahmida, **L. d. C. Godoy**, C. Kuo, M. Upadhyay, and S. Yadav, "Insight into clear aligner therapy protocols and preferences among members of the American Association of Orthodontists in the United States and Canada," *The Angle Orthodontist*, vol. 93, no. 4, pp. 417–428, 2023. DOI: [10.2319/101022-694.1](https://doi.org/10.2319/101022-694.1).
- [25] S. Abu-Arquib, R. Bashir, K. Obeng, **L. d. C. Godoy**, C. Kuo, M. Upadhyay, and S. Yadav, "Survival and failure rate of lower lingual bonded retainers: A retrospective cohort evaluation," *Orthodontics & Craniofacial Research*, vol. 26, no. 2, pp. 256–264, 2023. DOI: [10.1111/ocr.12608](https://doi.org/10.1111/ocr.12608). eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/ocr.12608>. [Online]. Available: <https://onlinelibrary.wiley.com/doi/abs/10.1111/ocr.12608>.
- [26] S. Abu-Arquib, R. Greene, S. Greene, K. Laing, C. Kuo, **L. d. C. Godoy**, and F. Uribe, "Ridge mini-implants, a versatile biomechanical anchorage device whose success is significantly enhanced by splinting: A clinical report," *Progress in Orthodontics*, vol. 24, no. 1, p. 27, 2023. DOI: [10.1186/s40510-023-00480-5](https://doi.org/10.1186/s40510-023-00480-5).
- [27] C. Duong, Q. Zhu, R. H. Aseltine Jr, C. Kuo, **L. d. C. Godoy**, and B. Kaufman, "A survey on cone-beam computed tomography usage among endodontists in the United States," *Journal of Endodontics*, vol. 49, no. 11, pp. 1559–1564, 2023, ISSN: 0099-2399. DOI: [10.1016/j.joen.2023.08.020](https://doi.org/10.1016/j.joen.2023.08.020). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0099239923005423>.
- [28] S. Frank, B. Ibrahim, R. Feng, A. Bidra, D. Lafreniere, C. Kuo, **L. d. C. Godoy**, and T. E. Falcone, "Tolerability of nasal and oral povidone-iodine antiseptics for in-office procedures," *Clinical Otolaryngology*, vol. 48, no. 4, pp. 696–699, 2023. DOI: [10.1111/coa.14045](https://doi.org/10.1111/coa.14045). eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/coa.14045>. [Online]. Available: <https://onlinelibrary.wiley.com/doi/abs/10.1111/coa.14045>.
- [29] M. T. Harandi, S. Abu-Arquib, E. Warren, C. Kuo, **L. d. C. Godoy**, S. Mehta, J. Feldman, M. Upadhyay, and S. Yadav, "Assessment of clear aligner accuracy of 2 clear aligners systems," *American Journal of Orthodontics and Dentofacial Orthopedics*, vol. 164, no. 6, pp. 793–804, 2023, ISSN: 0889-5406. DOI: <https://doi.org/10.1016/j.ajodo.2023.05.028>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0889540623003748>.
- [30] M. de Jesus, A. Maheshwary, M. Kumar, **L. d. C. Godoy**, C. Kuo, and P. Grover, "Association of electrocardiographic and echocardiographic variables with neurological outcomes after ischemic stroke," *American Heart Journal Plus: Cardiology Research and Practice*, vol. 34, p. 100313, 2023. DOI: [10.1016/j.ahjo.2023.100313](https://doi.org/10.1016/j.ahjo.2023.100313). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2666602223000654>.
- [31] C. Kuo, R. Liu, **L. d. C. Godoy**, L. C. Pilling, R. H. Fortinsky, and D. Brugge, "Association between residential exposure to air pollution and incident coronary heart disease is not mediated by leukocyte telomere length: A UK Biobank study," *Toxics*, vol. 11, no. 6, 2023, ISSN: 2305-6304. DOI: [10.3390/toxics11060489](https://doi.org/10.3390/toxics11060489). [Online]. Available: <https://www.mdpi.com/2305-6304/11/6/489>.
- [32] J. F. Leonard, P. Taxel, C. Kuo, **L. d. C. Godoy**, and M. Freilich, "Dental implant and bone augmentation treatment in bone-compromised patients: Oral health-related quality of life outcomes," *The Journal of Prosthetic Dentistry*, 2023, ISSN: 0022-3913. DOI: [10.1016/j.prosdent.2023.01.011](https://doi.org/10.1016/j.prosdent.2023.01.011). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0022391323000495>.
- [33] A. Turshudzhyan, **L. d. C. Godoy**, C. Kuo, and G. Y. Wu, "Alpha Feto-protein expression trends for screening early hepatocellular carcinoma," *Gene Expression*, vol. 22, no. 2, pp. 109–114, 2023. DOI: [10.14218/GE.2023.00001](https://doi.org/10.14218/GE.2023.00001).
- [34] S. Abu-Arquib, S. Banankhah, R. Sharma, **L. d. C. Godoy**, C. Kuo, M. Ahmed, M. Alfardan, and F. Uribe, "Association between initial complexity, frequency of refinements, treatment duration, and outcome in Invisalign orthodontic treatment," *American Journal of Orthodontics and Dentofacial Orthopedics*, 2022, ISSN: 0889-5406. DOI: [10.1016/j.ajodo.2022.06.017](https://doi.org/10.1016/j.ajodo.2022.06.017). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0889540622004048>.

- [35] A. Hariharan, S. Abu-Arquib, V. Gandhi, **L. d. C. Godoy**, C. Kuo, and F. Uribe, “Evaluation of interproximal reduction in individual teeth, and full arch assessment in clear aligner therapy: Digital planning versus 3d model analysis after reduction,” *Progress in Orthodontics*, vol. 23, no. 1, pp. 1–10, 2022. DOI: [10.1186/s40510-022-00403-w](https://doi.org/10.1186/s40510-022-00403-w).
- [36] M. Kumar, S. Patil, **L. d. C. Godoy**, C. Kuo, H. Swede, G. A. Kuchel, and K. Chen, “Demand ischemia as a predictor of mortality in older patients with delirium,” *Frontiers in Cardiovascular Medicine*, vol. 9, 2022. DOI: [10.3389/fcvm.2022.917252](https://doi.org/10.3389/fcvm.2022.917252).
- [37] S. Arquib-Abu, R. Voldman, A. Ahmida, C. Kuo, **L. d. C. Godoy**, Y. Nasrawi, S. N. Al-Khateeb, and F. Uribe, “Patients’ perceptions of orthodontic treatment experiences during COVID-19: A cross-sectional study,” *Progress in Orthodontics*, vol. 22, no. 1, pp. 1–12, 2021. DOI: [10.1186/s40510-021-00363-7](https://doi.org/10.1186/s40510-021-00363-7).
- [38] C. Huynh, **L. d. C. Godoy**, C. Kuo, M. Smeds, and K. S. Amankwah, “Examining the development of operative autonomy in vascular surgery training and when trainees and program directors agree and disagree,” *Annals of Vascular Surgery*, vol. 74, pp. 1–10, 2021. DOI: [10.1016/j.avsg.2021.01.121](https://doi.org/10.1016/j.avsg.2021.01.121). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0890509621002557>.
- [39] G. Lin, J. E. Murase, D. F. Murrell, **L. d. C. Godoy**, and J. M. Grant-Kels, “The impact of gender in mentor-mentee success: Results from the women’s dermatologic society mentorship survey,” *International Journal of Women’s Dermatology*, vol. 7, no. 4, pp. 398–402, 2021, ISSN: 2352-6475. DOI: [10.1016/j.ijwd.2021.04.010](https://doi.org/10.1016/j.ijwd.2021.04.010). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2352647521000630>.

## PRESENTATIONS

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### Invited Talks

Aug 2025 “On spatial statistics and sets”, PUC, Santiago, Chile

Mar 2025 “Statistical Inferences and Predictions for Areal Data and Spatial Data Fusion with Hausdorff-Gaussian Processes”, UCSF, San Francisco-CA, USA

Nov 2024 “Statistical Inferences and Predictions for Areal Data and Spatial Data Fusion with Hausdorff-Gaussian Processes”, UFRGS, Porto Alegre-RS, Brazil

Oct 2025 “Statistical Inferences and Predictions for Areal Data and Spatial Data Fusion with Hausdorff-Gaussian Processes”, UCSC, Santa Cruz-CA, USA

Sep 2024 “Process-based species distribution models for improving predictive performance of climate-driven range shifts”, Stockholm Resilience Centre, Sweden

Nov 2018 “Web Scraping, Web Services & APIs”, 1<sup>st</sup> Datathon–Universidade Federal do Rio Grande do Sul, Porto Alegre-RS, Brazil

Aug 2018 “Analyzing Brazilian public data”, Universidade Federal de Minas Gerais, Belo Horizonte-MG, Brazil

### Contributed Talks and Posters

Aug 2025 “drmr: A Bayesian approach to Dynamic Range Models in R”, ESA 2025, Baltimore, MD (Talk)

Aug 2024 “From Point to Polygon: A Unified Framework for Modeling Spatial Dependence”, JSM 2024, Portland, OR (Talk)

May 2024 “Beyond Traditional Disease Mapping: Spatiotemporal Analysis of Tuberculosis”, 37th NESS, Storrs, CT (Talk)

Sep 2023 “Hausdorff–Gaussian Process: Unifying Spatial Data Analysis”, EnviBayes Workshop, Fort Collins, CO (Poster)



Jun 2022 “An Unified Framework for Point-Level, Areal, and Mixed Spatial Data”, ISBA World Meeting, Montreal, CA (Talk)

May 2022 “Model-Based Voronoi Linkage for Spatial Analysis”, 35th NESS, Storrs, CT (Talk)

Oct 2021 “Spatially Misaligned Data: An Application to the 2018 Brazilian Election”, 34th NESS, Storrs, CT (Poster)

Oct 2020 “Automatic Team Selection in a Fantasy Football Game”, 2nd UCSAS, Storrs, CT (Poster)

Oct 2019 “Bayesian Hierarchical Models Applied to Fantasy Games”, 1st UCSAS, Storrs, CT (Poster)

Nov 2018 “Voronoi Data Linkage: Extracting Data from Polygons to Points”, 1st CSDS, Salvador, Brazil (Talk)

May 2018 “Voronoi Cells: Visualizing Intramunicipality Votes Distribution”, 63rd RBRAS, Curitiba, Brazil (Talk)

Mar 2018 “A Bayesian Mixture Model for Player Performance in Fantasy Games”, XIV EBEB, Rio de Janeiro, Brazil (Poster)

## TEACHING EXPERIENCE

<b>Principal Instructor</b> <i>University of Connecticut</i>	<b>Spring 2021–Spring 2022</b> <i>Storrs, CT</i>
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- STAT 3445: Introduction to Mathematical Statistics II

<b>Teaching Assistant</b> <i>University of Connecticut</i>	<b>Fall 2019–Fall 2020</b> <i>Storrs, CT</i>
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- STAT 3445: Introduction to Mathematical Statistics II
- STAT 1000Q: Introduction to Statistics I

<b>Lecturer</b> <i>Uniritter</i>	<b>Spring 2019</b> <i>Porto Alegre, Brazil</i>
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- Taught a professional development course on Data Analysis with R for graduate students.

## MENTORING EXPERIENCE

<b>Co-Leader &amp; Mentor, EEB Statistics Support Group</b> <i>University of California Santa Cruz</i>	<b>2024–2025</b> <i>Santa Cruz, CA</i>
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- Co-led a weekly statistical support group for graduate students and postdocs in Ecology and Evolutionary Biology.
- Mentored peers on data analysis challenges and the application of advanced statistical methods to their research.
- Developed and presented hands-on tutorials and coding exercises, available on the group’s [GitHub](#).

<b>Organizer &amp; Instructor, Student Workshop Series on Computing</b> <i>University of Connecticut, Department of Statistics</i>	<b>2024</b> <i>Storrs, CT</i>
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- Designed and instructed a weekly workshop series for doctoral students on computational statistics and high-performance computing.
- Mentored junior graduate students in creating professional academic websites; workshop materials are available [online](#).

<b>Group Coordinator (2017–2018) &amp; Member (2016–2017), Stats4Good</b> <i>Universidade Federal de Minas Gerais</i>	<b>2016–2018</b> <i>Belo Horizonte, BR</i>
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- Led a pro-bono data science group of graduate students applying statistical methods to address social issues in Brazil.
- Directed two major data analysis projects: one analyzing public expenditures to detect misuse of funds ([Veraz](#)), and another modeling crime data to study the under-notification of sexual assault ([GESEM](#)).
- Authored and managed the publication of project findings on the group's technical [blog](#).

## PROFESSIONAL EXPERIENCE

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**Statistical Consultant** **Aug 2023–May 2024**  
*Statistical Consulting Services, University of Connecticut* *Storrs, CT*

- Provided statistical consulting to researchers across various disciplines.

**Statistical Consultant** **Sep 2020–Dec 2023**  
*Biostatistics Center, University of Connecticut Health Center* *Farmington, CT*

- Provided statistical consulting to researchers in the health sciences.

**Graduate Assistant** **Aug 2022–May 2023**  
*High Performance Computing, University of Connecticut* *Storrs, CT*

- Supported HPC users, managed software environments, and developed Apptainer/Singularity containers to ensure research reproducibility.

**Data Scientist** **Dec 2018–June 2019**  
*Agibank* *Porto Alegre, Brazil*

- Developed and deployed machine learning models for credit risk and debt collection.

**Undergraduate Research Assistant (AMBES-Petrobras Project)** **Apr 2015–Dec 2015**  
*Universidade Federal do Rio Grande do Sul* *Porto Alegre, Brazil*

- Applied geostatistical models to predict the environmental impact of oil platforms' chemical characteristics on the ocean.
- *Supervisor: Prof. Fernando Pulgati*

**Undergraduate Research Assistant** **May 2011–Dec 2014**  
*Universidade Federal do Rio Grande do Sul* *Porto Alegre, Brazil*

- Investigated the impact of social inequalities on public health outcomes in Brazil.
- *Supervisor: Prof. Sergio Luiz Bassanesi*

**Digital Intelligence Analyst** **Sep 2016–Mar 2017**  
*Grupo Conectt* *Porto Alegre, Brazil*

- Developed monthly interactive reports and dashboards using web data.
- Created predictive models to identify leads with a high probability of conversion.

**Census Supervisor Agent** **Mar 2010–Nov 2010**  
*Instituto Brasileiro de Geografia e Estatística (IBGE)* *Brazil*

- Organized, supervised, and monitored field data collection for the 2010 Brazilian National Census.

## SERVICE

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**Associate Editor** **2025–Present**  
*Journal of Data Science*

## Referee

2023–Present

*Ad-hoc Reviewer for Various Journals*

- *Biostatistics*,
- *Journal of the Royal Statistical Society: Series A*,
- *International Statistical Review*,
- *Journal of Data Science*,
- *Environmetrics*,
- *Nature Communications*

## Cluster Administrator

2020–2024

*University of Connecticut, Department of Statistics*

*Storrs, CT*

- Management of the R packages and system requirements on the Cluster. Development and maintenance of `singularity` containers to assure analyses reproducibility.

## TECHNICAL SKILLS

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**Programming:** R, Stan, Nimble, Julia, C++, Python, SQL

**Tools:** Git, Docker, Apptainer/Singularity, SLURM, LaTeX, Quarto, Emacs, Shiny

## REFERENCES

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### Jun Yan

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### Malin Pinsky

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University of California Santa Cruz  
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Additional references available upon request.