

# 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

### Postdoctoral Researcher

Department of Ecology and Evolutionary Biology, UC Santa Cruz

Jun 2024–Present

Santa Cruz, CA

- Analyzing climate-driven range shifts in species distributions using process-based models.

## EDUCATION

### Ph.D. in Statistics

University of Connecticut

2024

Storrs, CT

- Dissertation:** Hausdorff-Gaussian Process with Spatial and Spatiotemporal Applications
- Advisor:** Prof. Jun Yan

### M.Sc. in Statistics

University of Connecticut

2023

Storrs, CT

- Advisor:** Prof. Jun Yan

### Master in Statistics

Universidade Federal de Minas Gerais

2019

Belo Horizonte, Brazil

- Thesis:** Testing Spatial Association Between Two Types of Polygons
- Advisor:** Prof. Renato Assunção

### B.S. in Statistics

Universidade Federal do Rio Grande do Sul

2016

Porto Alegre, Brazil

- Thesis:** Introduction to Geostatistical Modeling for Counting Data: Parameter Estimation with Different MCMC Algorithms

## 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

### 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 (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] 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

- [6] **L. d. C. Godoy**, M. O. Prates, and J. Yan, “Statistical inferences and predictions for areal data and spatial data fusion with Hausdorff–Gaussian processes,” *Journal of Agricultural, Biological and Environmental Statistics*, Jan. 2026, ISSN: 1537-2693. DOI: [10.1007/s13253-025-00720-7](https://doi.org/10.1007/s13253-025-00720-7). [Online]. Available: <https://doi.org/10.1007/s13253-025-00720-7>.
- [7] **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*, vol. 71, p. 100949, 2026, ISSN: 2211-6753. DOI: [10.1016/j.spasta.2025.100949](https://doi.org/10.1016/j.spasta.2025.100949). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2211675325000715>.
- [8] 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. 100873, 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>.
- [9] **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. 100695, 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>.
- [10] 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

- [11] **L. d. C. Godoy**, M. O. Prates, F. A. Quintana, and J. Yan, *Isotropic covariance functions for disparate spatial resolutions*, 2026. arXiv: [2502.15146 \[stat.ME\]](https://arxiv.org/abs/2502.15146). [Online]. Available: <https://arxiv.org/abs/2502.15146>.
- [12] **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>.

- [13] 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. 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>.
- [14] **L. d. C. Godoy**, *sapo: Spatial association of different types of polygon*, R package version 0.8.0, 2024. DOI: 10.32614/CRAN.package.sapo. [Online]. Available: <https://CRAN.R-project.org/package=sapo>.

## Peer-Reviewed Articles—Applications

- [15] S. Abu-Arqub, 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. eprint: <https://doi.org/10.1177/14653125241268755>. [Online]. Available: <https://doi.org/10.1177/14653125241268755>.
- [16] 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. [Online]. Available: <https://www.mdpi.com/2227-9059/13/4/832>.
- [17] 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/acel.14399. eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/acel.14399>. [Online]. Available: <https://onlinelibrary.wiley.com/doi/abs/10.1111/acel.14399>.
- [18] 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. eprint: <https://doi.org/10.1377/hlthaff.2024.01160>. [Online]. Available: <https://doi.org/10.1377/hlthaff.2024.01160>.
- [19] S. Abu-Arqub, 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>.
- [20] S. Abu-Arqub, 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.
- [21] 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>.
- [22] 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. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2212440323007435>.

- [23] R. Irsheid, **L. D. C. Godoy**, C. Kuo, J. Metz, C. Dolce, and S. Abu-Arqub, “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).
- [24] 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>.
- [25] S. Abu-Arqub, 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).
- [26] S. Abu-Arqub, 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>.
- [27] S. Abu-Arqub, 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).
- [28] 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>.
- [29] 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 antisepsis 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>.
- [30] M. T. Harandi, S. Abu-Arqub, 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>.
- [31] 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>.
- [32] 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>.
- [33] 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>.

- [34] 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).
- [35] S. Abu-Arqub, 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>.
- [36] A. Hariharan, S. Abu-Arqub, 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).
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- [38] 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).
- [39] 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>.
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## PRESENTATIONS

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### Invited Talks

Dec 2025 “Isotropic Covariance Functions of Sets on Length Spaces”, CFE-CMStatistics 2025, Birkbeck, UK

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

Principal Instructor	Spring 2021–Spring 2022
<i>University of Connecticut</i>	<i>Storrs, CT</i>
• STAT 3445: Introduction to Mathematical Statistics II	
Teaching Assistant	Fall 2019–Fall 2020
<i>University of Connecticut</i>	<i>Storrs, CT</i>
• STAT 3445: Introduction to Mathematical Statistics II	
• STAT 1000Q: Introduction to Statistics I	
Lecturer	Spring 2019
<i>Uniritter</i>	<i>Porto Alegre, Brazil</i>
• Taught a professional development course on Data Analysis with R for graduate students.	

## MENTORING EXPERIENCE

Co-Leader & Mentor, EEB Statistics Support Group	2024–2025
<i>University of California Santa Cruz</i>	<i>Santa Cruz, CA</i>
• 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](#).

**Organizer & Instructor, Student Workshop Series on Computing** 2024  
*University of Connecticut, Department of Statistics* *Storrs, CT*

- 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](#).

**Group Coordinator (2017–2018) & Member (2016–2017), Stats4Good** 2016–2018  
*Universidade Federal de Minas Gerais* *Belo Horizonte, BR*

- 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

**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

*Instituto Brasileiro de Geografia e Estatística (IBGE)*

Mar 2010–Nov 2010

Brazil

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

#### SERVICE

##### Associate Editor

*Journal of Data Science*

2025–Present

##### Referee

*Ad-hoc Reviewer for Various Journals*

2023–Present

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

##### Cluster Administrator

*University of Connecticut, Department of Statistics*

2020–2024

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

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

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

#### REFERENCES

##### Jun Yan

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