Lucas da Cunha Godoy

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Education

Universidade Federal do Rio Grande do Sul — Porto Alegre, Brazil
Bachelor degree in Statistics — *2011–2016*
Introduction to geostatistical modeling for counting data:
Parameters estimation with different MCMC algorithms

Universidade Federal de Minas Gerais — Belo Horizonte, Brazil
Master in Statistics — *2017–2019*
Testing Spatial Association Between Two Types Polygons
Advisor: Renato Assunção

University of Connecticut — Storrs, CT
M.Sc. in Statistics — *2019–2022*
Ph.D. in Statistics (GPA: 3.640) — *2019–2024*
Hausdorff–Gaussian Process with Spatial and Spatiotemporal Applications
Advisor: Jun Yan

Professional Experience

Statistical Consulting Services-University of Connecticut — Storrs, CT
Graduate assistant. — *Aug '23–present*
Walk-in statistical consulting.

High Performance Computing-University of Connecticut — Storrs, CT
Graduate assistant. — *Aug '22–May '23*
System administration, development and maintenance of `apptainer` containers to assure reproducibility and compatibility between newer operating systems and old software. Support to the users of the cluster.

Department of Statistics-University of Connecticut — Storrs, CT
Statistics Cluster Admin. — *Jun '21 – present*
Management of the `R` packages and system requirements on the Cluster. Development and maintenance of `singularity` containers to assure analyses reproducibility.

Biostatistics Center–University of Connecticut Health Center — Farmington, CT
Graduate Assistant — *Sep '20–Dec '23*
Statistical consulting for UConn Health Center researchers.

Agibank — Porto Alegre, Brazil
Data Scientist — *Dez '18–Jun '19*
Development of predictive models for debt collection and dashboards for monitoring its performance.

Grupo Conectt — Porto Alegre, Brazil
Digital Intelligence Analyst — *Sep '16–Mar '17*
Development of interactive monthly reports based on web data. Predictive modeling on which leads were more likely to become clients.

Universidade Federal do Rio Grande do Sul — Porto Alegre, Brazil
Undergraduate Research Assistant (AMBES project-Petrobras) — *Apr '15–Dec'15*
Geostatistical modeling to predict and understand the impact of oil platforms' physical chemical characteristics of the ocean.
Undergraduate Research Assistant — *May '11–Dec '14*
Investigating social inequalities and their impact on public health in Brazil under the supervision of Professor Sergio Bassanesi.

Instituto Brasileiro de Geografia e Estatística
Supervisor Agent-Census — *Mar '10–Nov 10*
Organization, supervision, and monitoring of data collection during the 2010 Census.

Teaching Experience

University of Connecticut STORRS, CT
Principal Instructor *Fall 2020–Spring 2022*
STAT 3445–Introduction to Mathematical Statistics II.

Uniritter PORTO ALEGRE, BRAZIL
Lecturer *Spring 2019*
Data analysis using R.

Peer-Reviewed Articles–Methodology

Abu-Arqub, S., Greene, R., Greene, S., Laing, K., Kuo, C., **Godoy**, **L. d. C.**, & Uribe, F. (2024). 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.* https://doi.org/https://doi.org/10.1016/j.ejwf.2024.02.001

Andreyeva, T., Moore, T. E., **Godoy**, **L. d. C.**, & Kenney, E. L. (2024). Federal nutrition assistance for young children: Underutilized and unequally accessed. *American Journal of Preventive Medicine*, 66(1), 18–26. https://doi.org/https://doi.org/10.1016/j.amepre.2023.09.008

Fryc, G. A., **Godoy**, **L. d. C.**, Kuo, C.-L., & Lurie, A. G. (2024). Prevalence of likely retro-odontoid pseudotumor in patients receiving dental cbct examinations. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, 137(3), 301–309. https://doi.org/https://doi.org/10.1016/j.oooo.2023.11.005

Godoy, **L. d. C.**, Assunção, R. M., & Butler, K. A. (2022). Testing the spatial association of different types of polygons. *Spatial Statistics*, 51, 100695. https://doi.org/https://doi.org/10.1016/j.spasta.2022.100695

Prates, M. O., Azevedo, D. R. M., **Godoy**, **L. d. C.**, & Bandyopadhyay, D. (2022). Can gaussian markov random fields handle spatial confounding? [In press.]. *Journal of the Indian Statistical Association*.

Peer-Reviewed Articles–Applications

Frank, S., Ibrahim, B., Feng, R., Bidra, A., Lafreniere, D., Kuo, C.-L., **Godoy**, **L. d. C.**, & Falcone, T. E. (n.d.). Tolerability of nasal and oral povidone-iodine antisepsis for in-office procedures. *Clinical Otolaryngology*. https://doi.org/https://doi.org/10.1111/coa.14045

Abu Arqub, S., Greene, R., Greene, S., Laing, K., Kuo, C.-L., **Godoy**, **L. d. C.**, & Uribe, F. (2023). Ridge mini-implants, a versatile biomechanical anchorage device whose success is significantly enhanced by splinting: A clinical report. *Progress in Orthodontics*, 24(1), 27.

Abu-Arqub, S., Ahmida, A., **Godoy**, **L. d. C.**, Kuo, C.-L., Upadhyay, M., & Yadav, S. (2023). 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*.

Arqub, S. A., Bashir, R., Obeng, K., **Godoy**, **L. d. C.**, Kuo, C.-L., Upadhyay, M., & Yadav, S. (2023). Survival and failure rate of lower lingual bonded retainers: A retrospective cohort evaluation. *Orthodontics & Craniofacial Research*, 26(2), 256–264. https://doi.org/https://doi.org/10.1111/ocr.12608

de Jesus, M., Maheshwary, A., Kumar, M., **Godoy**, **L. d. C.**, Kuo, C.-L., & Grover, P. (2023). Association of electrocardiographic and echocardiographic variables with neurological outcomes after ischemic stroke. *American Heart Journal Plus: Cardiology Research and Practice*, 100313.

Duong, C., Zhu, Q., Aseltine Jr, R. H., Kuo, C.-L., **Godoy**, **L. d. C.**, & Kaufman, B. (2023). A survey on cone-beam computed tomography usage among endodontists in the united states. *Journal of Endodontics*.

Harandi, M. T., Abu Arqub, S., Warren, E., Kuo, C.-L., **Godoy**, **L. d. C.**, Mehta, S., Feldman, J., Upadhyay, M., & Yadav, S. (2023). Assessment of clear aligner accuracy of 2 clear aligners systems. *American Journal of Orthodontics and Dentofacial Orthopedics*. https://doi.org/https://doi.org/10.1016/j.ajodo.2023.05.028

Kuo, C.-L., Liu, R., **Godoy**, **L. d. C.**, Pilling, L. C., Fortinsky, R. H., & Brugge, D. (2023). Association between residential exposure to air pollution and incident coronary heart disease is not mediated by leukocyte telomere length: A uk biobank study. *Toxics*, 11(6). https://doi.org/10.3390/toxics11060489

Leonard, J. F., Taxel, P., Kuo, C.-L., **Godoy**, **L. d. C.**, & Freilich, M. (2023). Dental implant and bone augmentation treatment in bone-compromised patients: Oral health-related quality of life outcomes. *The Journal of Prosthetic Dentistry*. https://doi.org/https://doi.org/10.1016/j.prosdent.2023.01.011

Turshudzhyan, A., **Godoy**, **L. d. C.**, Kuo, C.-L., & Wu, G. Y. (2023). Alpha feto-protein expression trends for screening early hepatocellular carcinoma. *Gene Expression*, (000), 0–0.

Arqub, S. A., Banankhah, S., Sharma, R., **Godoy**, **L. d. C.**, Kuo, C.-L., Ahmed, M., Alfardan, M., & Uribe, F. (2022). Association between initial complexity, frequency of refinements, treatment duration, and outcome in Invisalign orthodontic treatment. *American Journal of Orthodontics and Dentofacial Orthopedics*. https://doi.org/https://doi.org/10.1016/j.ajodo.2022.06.017

Hariharan, A., Arqub, S. A., Gandhi, V., **Godoy**, **L. d. C.**, Kuo, C.-L., & Uribe, F. (2022). 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*, 23(1), 1–10.

Kumar, M., Patil, S., **Godoy**, **L. d. C.**, Kuo, C.-L., Swede, H., Kuchel, G. A., & Chen, K. (2022). Demand ischemia as a predictor of mortality in older patients with delirium. *Frontiers in Cardiovascular Medicine*, 9.

Arqub, S. A., Voldman, R., Ahmida, A., Kuo, C.-L., **Godoy**, **L. d. C.**, Nasrawi, Y., Al-Khateeb, S. N., & Uribe, F. (2021). Patients' perceptions of orthodontic treatment experiences during COVID-19: A cross-sectional study. *Progress in Orthodontics*, 22(1), 1–12.

Boutrous, M. L., Maseto, N., Kuo, C.-L., **Godoy**, **L. d. C.**, & Amankwah, K. (2021). The use of multiple carotid stents is associated with increased incidence of developing in-stent stenosis on long-term follow-up. *Journal of Vascular Surgery*, 74(3), e240–e241.

Huynh, C., **Godoy**, **L. d. C.**, Kuo, C.-L., Smeds, M., & Amankwah, K. S. (2021). Examining the development of operative autonomy in vascular surgery training and when trainees and program directors agree and disagree. *Annals of Vascular Surgery*, 74, 1–10.

Lin, G., Murase, J. E., Murrell, D. F., **Godoy**, **L. d. C.**, & Grant-Kels, J. M. (2021). The impact of gender in mentor-mentee success: Results from the women's dermatologic society mentorship survey. *International Journal of Women's Dermatology*.

Pre-Print Articles and Software

Godoy, **L. d. C.** (2022). *Smile: Spatial misalignment: Interpolation, linkage, and estimation* [R package version 1.0.4.1]. https://CRAN.R-project.org/package=smile

Godoy, **L. d. C.**, Prates, M. O., & Yan, J. (2022). An unified framework for point-level, areal, and mixed spatial data: The hausdorff-gaussian process. https://doi.org/10.48550/ARXIV.2208.07900

Contributed Talks and Posters

The EnviBayes workshop on complex environmental data, CSU   FORT COLLINS, CO
Hausdorff–Gaussian process: Unifying spatial data analysis   *Sep '23*
    Poster.

The 2022 ISBA World Meeting   MONTREAL, CA
An unified framework for point-level, areal, and mixed spatial data: The Hausdorff-Gaussian Process
Jun '22
    Talk.

The 35th New England Statistics Symposium   STORRS, CT
Model-Based Voronoi linkage between point-referenced data and areal data in spatial analysis with application to the Brazilian election 2018   *May '22*
    Talk.

The 34th New England Statistics Symposium   STORRS, CT
Spatially misaligned data: An application to the 2018 Brazilian presidential election   *Oct '21*
    Poster.

2nd UConn Sports Analytics Symposium (UCSAS)   STORRS, CT
Automatic team selection in a fantasy football (soccer) Game.   *Oct '20*
    Poster.

1st UConn Sports Analytics Symposium (UCSAS)   STORRS, CT
Bayesian hierarchical models applied to fantasy games.   *Oct '19*
    Poster.

1ST CONFERENCE ON STATISTICS AND DATA SCIENCE   SALVADOR, BRAZIL
Voronoi Data Linkage: Extracting data from polygons to points.   *Nov '18*
    Contributed Talk.

63TH MEETING FROM THE BRAZILIAN CHAPTER OF THE INTERNATIONAL BIOMETRIC SOCIETY (RBRAS) CURITIBA, BRAZIL
Voronoi Cells: Visualizing intramunicipality votes distribution   *May '18*
    Contributed Talk.

XIV BRAZILIAN MEETING ON BAYESIAN STATISTICS (EBEB)   RIO DE JANEIRO, BRAZIL
A Bayesian mixture model to fit players performance in fantasy games   *Mar '18*
    Poster

Invited Talks

UConn Sports Analytics Symposium (UCSAS) 2021   STORRS, CT
Web Scraping for Sports Data with R   *Oct '21*

1ST DATATHON - UFRGS   PORTO ALEGRE, BRAZIL
Web Scraping, Web Services e API   *Nov '18*

GRADUATE STUDENTS' SEMINARS - UFMG   BELO HORIZONTE, BRAZIL
Analyzing Brazilian public data   *Aug '18*

Awards

ENVR American Statistical Association–Student Paper Competition   PORTLAND, OR
Honorable mention.   *2024*

The EnviBayes workshop on complex environmental data, CSU   FORT COLLINS, CO
Travel Award.   *2023*

Graduate School – University of Connecticut   STORRS, CT
Summer Doctoral Dissertation Fellowship.   *2023*

Department of Statistics – University of Connecticut   STORRS, CT
Teaching Award.   *2021–2022*

The 2022 ISBA World Meeting   MONTREAL, CA
Travel Award.   *Jun '22*

The Graduate School – University of Connecticut   STORRS, CT
Conference Participation Award.   *Jun '22*

1st Shiny Contest - RStudio   UNITED STATES
Honorable Mention   *Apr '19*
Voronoys-Understanding voters' profile in Brazilian elections.

1st Conference on Statistics and Data Science   BRAZIL
Best Paper Award on Statistics and Data Science   *Nov '18*
Voronoy Data Linkage: Extracting Data from Polygons to Points.

Center for Politics and Economics in the Public Sector Studies (CEPESP)–FGV   BRAZIL
1st CEPESP Data Challenge: Deciphering Brazil Elections   *Dec '17*
The challenge is to find solutions for visualization, search engines, graphic arts and any other tools that facilitate the understanding of the electoral process in Brazil. Always with free and open source software.