Lucas da Cunha Godoy

Department of Statistics
University of Connecticut
Room 325, Philip E. Austin Building
215 Glenbrook Road, Unit 4120
Storrs, CT 06269-4120 USA

email: lucas.godoy@uconn.edu
twitter: @ldcgodoy
github: lcgodoy
website: lcgodoy.me
phone: (860) 634-0460

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

University of Connecticut — Storrs, CT
M.S. in Statistics *2019–2022*
Ph.D. in Statistics *2019–present*
On Statistical Inferences for Spatially Misaligned Data and Spatial Data Fusion

Professional Experience

High Performance Computing-University of Connecticut — Storrs, CT
Graduate assistant. *Aug '22–present*
Software management and support to `R` users.

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. Also, providing singularity containers to assure analyses reproducibility.

Biostatistics Center, CCITRE-University of Connecticut — Farmington, CT
Graduate Assistant *Sep '20–present*
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 modelling 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

Arqub, S. A., Bashir, R., Obeng, K., Godoy, L. D. C., Kuo, C.-L., Upadhyay, M., & Yadav, S. (n.d.). Survival and failure rate of lower lingual bonded retainers: A retrospective cohort evaluation. *Orthodontics & Craniofacial Research*, https://onlinelibrary.wiley.com/doi/pdf/10.1111/ocr.12608. https://doi.org/https://doi.org/10.1111/ocr.12608

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

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

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*.

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*.

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]. 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. arXiv. https://doi.org/10.48550/ARXIV.2208.07900

Contributed Talks and Posters

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.

63 RBRAS — Curitiba, Brazil
Voronoi Cells: Visualizing intramunicipality votes distribution — *May '18*
Contributed Talk.

XIV 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

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.

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.