

# Lucas da Cunha Godoy

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## Education

Universidade Federal do Rio Grande do Sul	PORTO ALEGRE, BRAZIL
<b>Bachelor degree in Statistics</b>	2011–2016
Introduction to geostatistical modeling for counting data: Parameters estimation with different MCMC algorithms	
Universidade Federal de Minas Gerais	BELO HORIZONTE, BRAZIL
<b>Master in Statistics</b>	2017–2019
Testing Spatial Association Between Two Types Polygons	
University of Connecticut	STORRS, CT
<b>M.S. in Statistics</b>	2019–2022
<b>Ph.D. in Statistics</b>	2019–present
On Statistical Inferences for Spatially Misaligned Data and Spatial Data Fusion	

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## Professional Experience

High Performance Computing-University of Connecticut	STORRS, CT
<b>Graduate assistant.</b>	Aug '22–present
Software management and support to R users.	
Department of Statistics-University of Connecticut	STORRS, CT
<b>Statistics Cluster Admin.</b>	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
<b>Graduate Assistant</b>	Sep '20–present
Statistical consulting for UConn Health Center researchers.	
Agibank	PORTO ALEGRE, BRAZIL
<b>Data Scientist</b>	Dez '18–Jun '19
Development of predictive models for debt collection and dashboards for monitoring its performance.	
Grupo Conectt	PORTO ALEGRE, BRAZIL
<b>Digital Intelligence Analyst</b>	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
<b>Undergraduate Research Assistant (AMBES project-Petrobras)</b>	Apr '15–Dec '15
Geostatistical modeling to predict and understand the impact of oil platforms' physical chemical characteristics of the ocean.	
<b>Undergraduate Research Assistant</b>	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	
<b>Supervisor Agent-Census</b>	Mar '10–Nov '10
Organization, supervision, and monitoring of data collection during the 2010 Census.	

## Teaching Experience

University of Connecticut

Principal Instructor

STAT 3445–Introduction to Mathematical Statistics II.

Uniritter

Lecturer

Data analysis using R.

STORRS, CT

Fall 2020–Spring 2022

PORTO ALEGRE, BRAZIL

Spring 2019

## Peer-Reviewed Articles

- 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.
- 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 35<sup>th</sup> 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 34<sup>th</sup> New England Statistics Symposium

STORRS, CT

Spatially misaligned data: An application to the 2018 Brazilian presidential election

Oct '21

Poster.

2<sup>nd</sup> UConn Sports Analytics Symposium (UCSAS)

STORRS, CT

Automatic team selection in a fantasy football (soccer) Game.

Oct '20

Poster.

1 <sup>st</sup> UConn Sports Analytics Symposium (UCSAS) <b>Bayesian hierarchical models applied to fantasy games.</b> Poster.	STORRS, CT <i>Oct '19</i>
1 <sup>st</sup> CONFERENCE ON STATISTICS AND DATA SCIENCE <b>Voronoi Data Linkage: Extracting data from polygons to points.</b> Contributed Talk.	SALVADOR, BRAZIL <i>Nov '18</i>
63 RBRAS <b>Voronoi Cells: Visualizing intramunicipality votes distribution</b> Contributed Talk.	CURITIBA, BRAZIL <i>May '18</i>
XIV EBEB <b>A Bayesian mixture model to fit players performance in fantasy games</b> Poster	RIO DE JANEIRO, BRAZIL <i>Mar '18</i>

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## Invited Talks

UConn Sports Analytics Symposium (UCSAS) 2021 <b>Web Scraping for Sports Data with R</b>	STORRS, CT <i>Oct '21</i>
1 <sup>st</sup> DATATHON - UFRGS <b>Web Scraping, Web Services e API</b>	PORTO ALEGRE, BRAZIL <i>Nov '18</i>
GRADUATE STUDENTS' SEMINARS - UFMG <b>Analyzing Brazilian public data</b>	BELO HORIZONTE, BRAZIL <i>Aug '18</i>

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## Awards

Department of Statistics – University of Connecticut <b>Teaching award.</b>	STORRS, CT 2021–2022
The 2022 ISBA World Meeting <b>Travel award.</b>	MONTREAL, CA <i>Jun '22</i>
The Graduate School – University of Connecticut <b>Conference participation award.</b>	STORRS, CT <i>Jun '22</i>
1 <sup>st</sup> Shiny Contest - RStudio <b>Honorable Mention</b> Voronoy - Understanding voters' profile in Brazilian elections.	UNITED STATES <i>Apr '19</i>
1 <sup>st</sup> Conference on Statistics and Data Science <b>Best Paper Award on Statistics and Data Science</b> Voronoy Data Linkage: Extracting Data from Polygons to Points.	BRAZIL <i>Nov '18</i>
CEPESP - FGV <b>1<sup>st</sup> CEPESP Data Challenge: Deciphering Brazil Elections</b> 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.	BRAZIL <i>Dec '17</i>