

# 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>Ph.D. in Statistics</b>	2019–present
Methods for Spatially Misaligned Data.	

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## Experience

High Performance Computing-University of Connecticut	STORRS, CT
<b>Graduate assistant.</b>	Aug '21–present
Helping R users and presenting workshops on how to use the cluster.	
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 builds general singularity containers to assure reproducibility.	
Biostatistics Center - Connecticut Convergence Institute for Translation in Regenerative Engineering	
FARMINGTON, CT	
<b>Graduate Assistant</b>	Sep '20–present
Statistical consulting for researchers of the UConn Health Center.	
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 to predict 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
Worked on several projects under the supervision of Professor Sergio Bassanesi, investigating social inequalities and their impact on public health in Brazil.	
Instituto Brasileiro de Geografia e Estatística	
<b>Supervisor Agent-Census</b>	Mar '10–Nov '10
Organization, supervision, and monitoring of data collection from the 2010 Census.	

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## Teaching

University of Connecticut	STORRS, CT
<b>Principal Instructor</b>	Fall 2020–Spring 2022
STAT 3445–Introduction to Mathematical Statistics II.	
Uniritter	PORTO ALEGRE, BRAZIL
<b>Lecturer</b>	Spring 2019
Data analysis using R.	

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## Publications

1. Arqub, S. A. *et al.* Association between initial complexity, frequency of refinements, treatment duration, and outcome in Invisalign orthodontic treatment. *American Journal of Orthodontics and Dentofacial Orthopedics*. ISSN: 0889-5406. <https://www.sciencedirect.com/science/article/pii/S0889540622004048> (2022).
2. Godoy, L. d. C. *smile: Spatial Misalignment: Interpolation, Linkage, and Estimation* R package version 1.0.4.1 (2022). <https://CRAN.R-project.org/package=smile>.
3. Godoy, L. d. C., Assunção, R. M. & Butler, K. A. Testing the Spatial Association of Different Types of Polygons. *Spatial Statistics* **51**, 100695. ISSN: 2211-6753. <https://www.sciencedirect.com/science/article/pii/S2211675322000562> (2022).
4. Godoy, L. d. C., Prates, M. O. & Yan, J. *An unified framework for point-level, areal, and mixed spatial data: the Hausdorff-Gaussian Process* 2022. <https://arxiv.org/abs/2208.07900>.
5. Godoy, L. d. C., Prates, M. O. & Yan, J. Model-Based Voronoi Linkage between Point-Referenced Data and Areal Data in Spatial Analysis with Application to the 2018 Brazilian Presidential Election. *Journal of Official Statistics*. Under review. (2022).
6. Hariharan, A. *et al.* 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**, 1–10 (2022).
7. Prates, M. O., Azevedo, D. R. M., Godoy, L. d. C. & Bandyopadhyay, D. Can Gaussian Markov random fields handle spatial confounding? *Journal of the Indian Statistical Association*. To appear. (2022).
8. Arqub, S. A. *et al.* Patients' perceptions of orthodontic treatment experiences during COVID-19: A cross-sectional study. *Progress in Orthodontics* **22**, 1–12 (2021).
9. Boutrous, M. L., Maseto, N., Kuo, C.-L., Godoy, L. & Amankwah, K. 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**, e240–e241 (2021).
10. Huynh, C., Godoy, L. D. C., Kuo, C.-L., Smeds, M. & Amankwah, K. S. 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 (2021).
11. Lin, G., Murase, J. E., Murrell, D. F., Godoy, L. D. C. & Grant-Kels, J. M. The Impact of Gender in Mentor-Mentee Success: Results from the Women's Dermatologic Society Mentorship Survey. *International Journal of Women's Dermatology* (2021).

## 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 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)

STORRS, CT

**Bayesian hierarchical models applied to fantasy games.**  
Oct '19  
Poster.

### 1<sup>ST</sup> 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.

**Invited Talks**

UConn Sports Analytics Symposium (UCSAS) 2021  
Web Scraping for Sports Data with R

STORRS, CT

Oct '21

1<sup>ST</sup> DATATHON - UFRGS  
Web Scraping, Web Services e API

PORTO ALEGRE, BRAZIL

Nov '18

GRADUATE STUDENTS' SEMINARS - UFMG  
Analyzing Brazilian public data

BELO HORIZONTE, BRAZIL

Aug '18

**Awards**

The 2022 ISBA World Meeting  
Travel award.

MONTREAL, CA

Jun '22

The Graduate School – University of Connecticut  
Conference participation award.

STORRS, CT

Jun '22

1<sup>st</sup> Shiny Contest - RStudio  
Honorable Mention

UNITED STATES

Apr '19

Voronoy - Understanding voters' profile in Brazilian elections.

1<sup>st</sup> 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

1<sup>st</sup> 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.

**Research Interests**

- Statistical Computing
- Spatial Statistics
- Bayesian Statistics

**Programming languages and open-source software**

- R–Advanced
- bash, C/C++, Python–Intermediate
- SQL–Intermediate/Basic
- Julia–Basic
- [transpbrr](#)–Authored
- [tpsa](#)–Authored
- [parallelDist](#)–Contributed
- [sf](#)–Contributed