

# Lucas da Cunha Godoy *March 20, 1992*

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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 modelling 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 modelling 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 in several projects under 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 2021
STAT 3445 - Introduction to Mathematical Statistics II.	
Uniritter	PORTO ALEGRE, BRAZIL
<b>Lecturer</b>	Spring 2019
Teaching data analysis using R.	

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## Publications

Sarah Abu Arqub, Rebecca Voldman, Ahmad Ahmida, Chia-Ling Kuo, Lucas Da Cunha Godoy, Yousef Nasrawi, Susan N Al-Khateeb, and Flavio Uribe. Patients' perceptions of orthodontic treatment experiences during COVID-19: A cross-sectional study. *Progress in Orthodontics*, 22(1):1–12, 2021.

Sarah Abu Arqub, Sina Banankhah, Ravish Sharma, Lucas Da Cunha Godoy, Chia-Ling Kuo, Maram Ahmed, Mariam Alfardan, and Flavio 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: <https://doi.org/10.1016/j.ajodo.2022.06.017>. URL <https://www.sciencedirect.com/science/article/pii/S0889540622004048>.

Mina L Boutrous, Nadejda Maseto, Chia-Ling Kuo, Lucas Godoy, and Kwame Amankwah. 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, 2021.

Lucas da Cunha Godoy, Marcos Oliveira Prates, and Jun Yan. 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*, 2022a. Under review.

Lucas da Cunha Godoy, Renato Martins Assunç ao, and Kevin A. Butler. Testing the spatial association of different types of polygons. *Spatial Statistics*, 2022b. Accepted for publication.

Lucas da Cunha Godoy, Marcos Oliveira Prates, and Jun Yan. An unified framework for point-level, areal, and mixed spatial data: the hausdorff-gaussian process, 2022. URL <https://arxiv.org/abs/2208.07900>.

Amirtha Hariharan, Sarah Abu Arqub, Vaibhav Gandhi, Lucas Da Cunha Godoy, Chia-Ling Kuo, and Flavio 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*, 23(1):1–10, 2022.

Cindy Huynh, Lucas Da Cunha Godoy, Chia-Ling Kuo, Matthew Smeds, and Kwame 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*, 74:1–10, 2021.

Gloria Lin, Jenny E Murase, Dedee F Murrell, Lucas Da Cunha Godoy, and Jane M Grant-Kels. The impact of gender in mentor-mentee success: Results from the women's dermatologic society mentorship survey. *International Journal of Women's Dermatology*, 2021.

Marcos Oliveira Prates, Douglas R. M. Azevedo, Lucas da Cunha Godoy, and Dipankar Bandyopadhyay. Can gaussian markov random fields handle spatial confounding? *Journal of the Indian Statistical Association*, 2022. To appear.

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## 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

**Voronoi Cells: Visualizing intramunicipality votes distribution**  
Contributed Talk.

CURITIBA, BRAZIL  
May '18

## XIV EBEB

**A Bayesian Mixture Models to fit players performance in fantasy games**  
Poster

RIO DE JANEIRO, BRAZIL  
Mar '18

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## Invited Talks

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

STORRS, CT  
Oct '21

## 1<sup>ST</sup> DATATHON - UFRGS

**Web Scrapping, Web Services e API**

PORTO ALEGRE, BRAZIL  
Nov '18

## GRADUATE STUDENTS' SEMINARS - UFMG

**Analyzing Brazilian public data**

BELO HORIZONTE, BRAZIL  
Aug '18

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## Awards

### 1<sup>st</sup> Shiny Contest - RStudio

**Honorable Mention**

Voronoy's - Understanding voters' profile in Brazilian elections.

UNITED STATES  
Apr '19

### 1<sup>st</sup> Conference on Statistics and Data Science

**Best Paper Award on Statistics and Data Science**

Voronoy Data Linkage: Extracting Data from Polygons to Points.

BRAZIL  
Nov '18

### CEPESP - FGV

**1<sup>st</sup> CEPESP Data Challenge: Deciphering Brazil Elections**

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  
Dec '17

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## Research Interests

- Statistical Computing
- Spatial Statistics
- Bayesian Statistics

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## Programming Languages

- R-Advanced
- bash-Intermediate
- C/C++-Intermediate
- Python-Intermediate
- SQL-Intermediate/Basic
- Julia-Basic

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## Software

- Authored: [smile](#)
- Authored: [transpbrr](#)
- Authored: [tpsa](#)
- Contributed: [parallelDist](#)
- Contributed: [sf](#)