

#### PhD Candidate · Mathematics and Statistics

#### National University of Ireland Maynooth, Ireland

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Education \_\_\_\_\_\_\_
National University of Ireland Maynooth

Ireland

PhD in Statistics

April 2020 - present

- · Advisor: Dr. Andrew Parnell
- Fully funded by the Science Foundation of Ireland (SFI).
- Research topic: Bayesian Statistical Machine Learning.

### **Federal University of Bahia**

Advisor: Dr. Anderson Ara

Brazil

March 2018 - February 2020

- M.Sc in Statistics
- Fully funded by the National Council for Scientific and Technological Development (CNPQ) of Brazil.
- Dissertation: "Random Machines The Random Kernel Space for Constructing a Support Vector Ensemble".

### **Federal University of Bahia**

Brazil

Bsc. in Geophysics March 2014 - February 2018

Partially funded from different grants from the National Council for Scientific and Technological Development (CNPQ) of Brazil.

Professional Experience

2020-2023 Graduate Teaching Assistant, Maynooth University

Publications \_\_\_\_\_

**PUBLISHED** 

Maia, Mateus, Keefe Murphy, and Andrew C. Parnell. "GP-BART: a novel Bayesian additive regression trees approach using Gaussian processes." Computational Statistics & Data Analysis (2023): 107858.

Maia, Mateus, et. al. . "Wavelet Support Vector Censored Regression." Analytics 2.2 (2023): 410-425.

Ara, A., **Maia, M.**, Louzada, F., & Macêdo, S. "Regression random machines: An ensemble support vector regression model with free kernel choice." Expert Systems with Applications 202 (2022): 117107.

**Maia, Mateus**, Arthur R. Azevedo, and Anderson Ara. "Predictive comparison between random machines and random forests." Journal of Data Science 19.4 (2021): 593-614.

Ara, A., **Maia, M.**, Louzada, F., & Macêdo, S. "Random machines: A bagged-weighted support vector model with free kernel choice." Journal of Data Science 19.3 (2021): 409-428.

**Maia, Mateus,** et al. "Convolutional support vector models: Prediction of coronavirus disease using chest x-rays." Information 11.12 (2020): 548.

Paz, H., **Maia, M.**, Moraes, F., Lustosa, R., Costa, L., Macêdo, S., & Ara, A. "Local processing of massive databases with R: a national analysis of a Brazilian social programme." Stats 3.4 (2020): 444-464.

## Awards, Fellowships & Grants \_\_\_\_\_

7070-7074	Ph.D. Grant, Science Foundation Ireland Career Development Award - Grant Number:
	17/CDA/4695
2020-2024 <b>I</b>	Ph.D. Grant, Science Foundation Ireland Research Centre Award - Grant Number:
2020-2024	12/RC/2289P2
2022	2nd place at the Best Master Thesis Competition, 24th SINAPE   National Symposium on
2022	Probability and Statistics of Brazil organised by the Brazilian Association of Statistics.
2018-2020 <b>I</b>	Master's Grant in Mathematics and Statistics, National Council for Scientific and
2010-2020 _	Technological Development of Brazil.
9	Scientific Initiation Fellowship, Member of the Theoretical and Applied Stratigraphy Group
2016-2017	of UFBA (GETA-UFBA) funded by National Council for Scientific and Technological
I	Development of Brazil.
9	Scientific Initiation Fellowship, Member of the Hydrogeological and Environmental
2015-2016	Studies Center (NEHMA) funded by National Council for Scientific and Technological
I	Development of Brazil.
2014	Ist place at Admissional National Exam in Geophysics Bachelor, Federal University of
2014	Bahia - Brazil

### Selected Contributed Presentations \_\_\_\_\_\_

Oral presentation: Mateus Maia\* Keefe Murphy, and Andrew C. Parnell. "sBART: novel extension to Bayesian additive regression trees using splines." Conference of Applied Statistics in Ireland (CASI) 2023, Killaerney, Ireland.

Poster presentation: Mateus Maia\* Keefe Murphy, and Andrew C. Parnell. 2023. GP-BART: an extension to Bayesian additive regression trees approach using Gaussian processes". BayesComp, 2023. Kittila, Finland.

Oral presentation: **Mateus Maia\* Keefe Murphy, and Andrew C. Parnell.** "A new Extension For Bayesian Additive Regression Trees Model Adopting Gaussian Processes." Conference of Applied Statistics in Ireland (CASI) 2022, Cork, Ireland.

# Teaching Experience \_\_\_\_\_

Fall 2023	Introduction to Statistics, Teaching Assistant
Fall 2023	Introduction to R and Data Science, Teaching Assistant
Spring 2022	Generalised Linear Models, Teaching Assistant
Spring 2022	Statistical Machine Learning, Teaching Assistant
Spring 2022	Linear Models, Teaching Assistant
Fall 2021	Introduction to Statistics, Teaching Assistant
Fall 2021	Introduction to R and Data Science, Teaching Assistant
Spring 2021	Probability, Teaching Assistant

### Outreach \_\_\_\_\_

Short Course: Support Vector Models - An Introduction to Statistical Machine Learning,

July 2023 Anderson Ara\*, Raydonal Spinoza, Mateus Maia. 67ª RBras e 20° SEAGRO, Londrina, Paraná,

Brazil.

### Miscellaneous \_\_\_\_\_

**Languages**: English, Spanish, and Portuguese (native)

Programming Languages: R,C++, Markdown, LaTeX, Python and Julia.

<sup>\*</sup> presenting author;

Referees \_\_\_\_\_

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