# Lídia André

### POSTDOCTORAL RESEARCH FELLOW

## Université de Namur, 5000 Namur, Belgium

■ @unamur.be | ★ https://lidiamandre.github.io | • https://github.com/lidiamandre

Education			
Lancaster University		United Kingdom	
PHD STATISTICS		2021 - 2024	
Supervisors: Dr	g and inference for the body and tail regions of multivariate data" lennifer Wadsworth		
Lancaster University		United Kingdom	
MRES STATISTICS AND OPERATIONAL RESEARCH, GRADE: DISTINCTION		2020 - 2021	
	ence Models for Actuarial Data" Iennifer Wadsworth, Dr. Adrian O'Hagan (UCD, Ireland)		
Faculty of Science	s, University of Lisbon	Portugal	
MSc Statistics and Operational Research, Grade: 18/20		2017 - 2019	
	oula Models for Dependence: Comparing Classical and Bayesian Approaches" Patrícia de Zea Bermudez		
University of Bologna		Italy	
MSc Statistical Sciences - Erasmus Programme		2017 - 2018	
<ul> <li>Analysis of Categorical Data: 24/30</li> <li>Survey Sampling: 24/30</li> </ul>			
	orithms for Data Science: 30/30		
	conomics & Management, University of Lisbon	Portugal	
BSc Mathematics A	APPLIED TO ECONOMICS AND MANAGEMENT, GRADE: 15/20	2014 - 2017	
Professional E	Experience		
2025— <b>Post</b>	· · · · · · · · · · · · · · · · · · ·		
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	2021 - 2023 Graduate Teaching Assistant, Department of Mathematics and Statistics, Lancaster University  Research Fellow: Investigation of the spatial distribution of a fish species where the focus was on assessing if		
	using Preferential Sampling would improve the estimation of such distribution, Portuguese Institute for Sea and		
_	Atmosphere		
2012 - 2017 <b>Mon</b>	itor at Summer Camp (for children aged 3-10), Junta de Freguesia de Carnide, Li	sboa, Portugal	
Research Inte	rests		
Main interests:	Main interests:  Statistics of Extremes (with particular interest in multivariate extremes), Computational Statistics and Copula Theory		
Other interests:	High Dimension Statistics, Spatial Statistics, Bayesian Inference and Machine L	_earning/Al	
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Publications_			
Published			

- **André, L. M.**, Campbell, R., D'Arcy, E., Farrell, A., Healy, D., Kakampakou, L., Murphy, C., Murphy-Barltrop, C.J.R., Speers, M. (2024). Extreme value methods for estimating rare events in Utopia. *Extremes*.
- **André, L. M.**, Wadsworth, J. L., O'Hagan, A. (2024). Joint modelling of the body and tail of bivariate data. *Computational Statistics & Data Analysis.*
- **André, L. M.**, Figueiredo, I., Carvalho, M. L., Simões, P., Natário, I. (2020). Spatial Modelling of Black Scabbardfish Fishery Off the Portuguese Coast. *ICCSA 2020*.

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André, L. M., de Zea Bermudez, P. (2020). Modelling dependence between observed and simulated wind speed data using copulas. Stochastic Environmental Research Risk Assessment.

## Awards\_\_\_\_

2023 23rd European Young Statisticians Meeting, European Regional Committee of the Bernoulli Society

2019 XXIV Congresso da Sociedade Portuguesa de Estatística (Scolarship), Sociedade Portuguesa de Estatística

## Conferences\_\_\_\_\_

#### POSTER PRESENTATIONS

February 2024. ML-based inference for complex dependence models. Causality in Extremes Workshop, Geneva, Switzerland.

January 2024. Jointly Modelling the Body and Tail of Multivariate Data. STOR-i Annual Conference, Lancaster, UK.

May 2022. Jointly Modelling the Body and Tail of Multivariate Data. 5th International Conference on Advances in Extreme Value Analysis and Application to Natural Hazards, Orlando, Florida, USA.

April 2022. Jointly Modelling the Body and Tail of Multivariate Data. Data on the Lake Conference, Windermere, UK.

#### **CONTRIBUTED PRESENTATIONS**

September 2023. Joint modelling of the body and tail of bivariate data. STOR-i Extremes Workshop, Lancaster, UK.

September 2023. Joint modelling of the body and tail of bivariate data. 23rd European Young Statisticians Meeting, Ljubljana, Slovenia.

June 2023. Joint modelling of the body and tail of bivariate data. Extreme Value Analysis Conference, Milan, Italy.

March 2022. Introduction to Extremes with R. University of Lisbon Extremes Webinar (Joint workshop), Lisbon, Portugal.

July 2020. Spatial Modelling of Black Scabbardfish Fishery off the Portuguese Coast. 20th International Conference on Computational Science and Its Applications, Cagliari, Italy.

November 2019. Bivariate Copula Models for Dependence: Application to Wind Speed Data. XXIV Congresso da Sociedade Portuguesa de Estatística, Amarante, Portugal.

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

MATH101: Calculus (Autumn 2021) MATH403: Statistical Foundations I (Autumn 2023)

MATH102: Further Calculus (Autumn 2021) MATH502: Statistical Fundamentals II (Autumn 2021, 2022)

STOR605: Inference (Autumn 2021) MATH235: Statistics II (Spring 2022, 2023)

MATH331: Bayesian Statistics (Autumn 2021, 2022)

## Activities \_\_

COMMITTEES (O - Organiser; CO - Co-Organiser; OC - Organising Committee; CM - Committee Member)

2023 - 2024 Lancaster Extremes research group, O 2022 - 2023 STOR-i Extremes Workshop, OC 2022 - 2023 STOR-i computing research group, CO 2022 - 2023 STOR-i Womens+ Network, CM

SUPERVISION

July 2022 Rui Zhang, STOR-i Intern Lancaster University

#### COMPUTING SKILLS **LANGUAGES**

R (and R packaging) and Julia Primary: Portuguese, Proficiency Native:

LaTeX, HPC, SLURM, GitHub C2: English, IELTS Academic: Band score 7.5 Frequent use:

A2: Python, MATLAB, C++, SPSS, SQL, JAGS, Brief knowledge: WinBUGS, OpenBUGS, GiveWin, TSP Spanish, COMPETIR - Formação e Serviços, SA A1:

Italian, Alma Mater Studiorum Unibo