Lídia André

POSTDOCTORAL RESEARCH FELLOW

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Education		
Lancaster University PHD STATISTICS		United Kingdom 2021 - 2024
Thesis: "ModellingSupervisors: Dr. Je	and inference for the body and tail regions of multivariate data" nnifer Wadsworth	
Lancaster University		United Kingdom
 MRES STATISTICS AND OPERATIONAL RESEARCH, GRADE: DISTINCTION Project: "Dependence Models for Actuarial Data" Supervisors: Dr. Jennifer Wadsworth, Dr. Adrian O'Hagan (UCD, Ireland) 		2020 - 2021
	University of Lisbon	Portugal
• Dissertation: "Copu	Operational Research, Grade: 18/20 ula Models for Dependence: Comparing Classical and Bayesian Approaches" trícia de Zea Bermudez	2017 - 2019
University of Bologna		Italy
Analysis of CategorSurvey Sampling: 2		2017 - 2018
	onomics & Management, University of Lisbon PLIED TO ECONOMICS AND MANAGEMENT, GRADE: 15/20	Portugal 2014 - 2017
Professional Ex	kperience	
2024 Resea 2021 - 2023 Gradu Resea	octal Research Fellow: X-vine models for multivariate extremes, Université de rch Associate: Computational Skills Project, Lancaster University ate Teaching Assistant, Department of Mathematics and Statistics, Lancaster Un rch Fellow: Investigation of the spatial distribution of a fish species where the foc Preferential Sampling would improve the estimation of such distribution, Portugu phere	iversity us was on assessing if
	or at Summer Camp (for children aged 3-10), Junta de Freguesia de Carnide, Lis	sboa, Portugal
Research Inter	ests	
Main interests: Statistics of Extremes (with particular interest in multivariate extremes), Comp Copula Theory		itational Statistics and
Other interests:	High Dimension Statistics, Spatial Statistics, Bayesian Inference and Machine Lo	earning/Al
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