Lídia André

POSTDOCTORAL RESEARCH FELLOW

Université de Namur, 5000 Namur, Belgium

✉ lidia.andre@unamur.be | 🏠 https://lidiamandre.github.io | 💻 https://github.com/lidiamandre | 🆔 0000-0002-0887-0882

Education

Lancaster University *United Kingdom*
PHD STATISTICS *2021 - 2025*
- Thesis: "Modelling and inference for the body and tail regions of multivariate data"
- Supervisors: Professor Jennifer Wadsworth

Lancaster University *United Kingdom*
MRES STATISTICS AND OPERATIONAL RESEARCH, GRADE: DISTINCTION *2020 - 2021*
- Project: "Dependence Models for Actuarial Data"
- Supervisors: Professor Jennifer Wadsworth, Dr. Adrian O'Hagan (UCD, Ireland)

Faculty of Sciences, University of Lisbon *Portugal*
MSC STATISTICS AND OPERATIONAL RESEARCH, GRADE: 18/20 *2017 - 2019*
- Dissertation: "Copula Models for Dependence: Comparing Classical and Bayesian Approaches"
- Supervisors: Dr. Patrícia de Zea Bermudez

University of Bologna *Italy*
MSC STATISTICAL SCIENCES - ERASMUS PROGRAMME *2017 - 2018*
- Analysis of Categorical Data: 24/30
- Survey Sampling: 24/30
- Systems and Algorithms for Data Science: 30/30

Lisbon School of Economics & Management, University of Lisbon *Portugal*
BSC MATHEMATICS APPLIED TO ECONOMICS AND MANAGEMENT, GRADE: 15/20 *2014 - 2017*

Professional Experience

2025—	**Postdoctoral Research Fellow: X-vine models for multivariate extremes**, Université de Namur
2024	**Research Associate: Computational Skills Project**, Lancaster University
2021 - 2023	**Graduate Teaching Assistant**, Department of Mathematics and Statistics, Lancaster University
2019 - 2020	**Research Fellow:** Spatial distribution of a fish species where the focus was on assessing whether incuding Preferential Sampling would improve the estimation of such distribution, Portuguese Institute for Sea and Atmosphere, Portugal
2012 - 2017	**Monitor at Summer Camp (for children aged 3-10)**, Junta de Freguesia de Carnide, Lisboa, Portugal

Interests

Statistics of Extremes, Computational Statistics, Machine Learning, High Dimension Statistics

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.*

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

In Review

André, L. M., Tawn, J. A. (2025). Gaussian mixture copulas for flexible dependence modelling in the body and tails of joint distributions. *In review and submitted to Computation Statistics & Data Analysis. Preprint in* `https://arxiv.org/pdf/2503.06255`

André, L. M., Wadsworth, J. L., Huser, R. (2025). Neural Bayes inference for complex bivariate extremal dependence models. *In review and submitted to Extremes. Preprint in* `https://arxiv.org/pdf/2503.23156`

Awards

2025	**Prémio SPE 2025**, Sociedade Portuguesa de Estatística
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

Teaching Experience

MATH101:	**Calculus** (Autumn 2021)	MATH403:	**Statistical Foundations I** (Autumn 2023)
MATH102:	**Further Calculus** (Autumn 2021)	MATH502:	**Statistical Fundamentals II** (Autumn 2021, 2022)
MATH235:	**Statistics II** (Spring 2022, 2023)	STOR605:	**Inference** (Autumn 2021)
MATH331:	**Bayesian Statistics** (Autumn 2021, 2022)		

Skills and Activities

Computing skills

Primary:	R (and R packaging) and Julia
Frequent use:	LaTeX, HPC, SLURM, GitHub
Brief knowledge:	Python, MATLAB, C++, SPSS, SQL, JAGS, WinBUGS, OpenBUGS, GiveWin, TSP

Languages

Native	**Portuguese**, Proficiency
C2	**English**, IELTS Academic: Band score 7.5
A2	**Italian**, Alma Mater Studiorum Università di Bologna
A1	**Spanish**, COMPETIR - Formação e Serviços, SA

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*