LUCA DANESE

Curriculum Vitae

Department of Economics, Management and Statistics
University of Milano - Bicocca
✉ *l.danese1@campus.unimib.com*
lucadanese.github.io/

Education

2021–present **PhD student in Statistics**, *University of Milano - Bicocca*, Milan, Italy.
Field of study: Bayesian statistics and computational statistics

2018–2020 **Master of Statistical and Economic Sciences**, *University of Milano - Bicocca*, Milan, Italy.

2015–2018 **Bachelor of Statistics and Management of Information**, *University of Milano - Bicocca*, Milan, Italy.

Visiting Periods

2023-2024 **University of Nottingham, UK**, *1st October 2023 - 1st April 2024*.

Publications

Journal Articles

2022 R. Corradin, **L. Danese**, and A. Ongaro. Bayesian nonparametric change point detection for multivariate time series with missing observations. ***International Journal of Approximate Reasoning***, volume 143, pages 26–43, 2022.

Preprints

2024+ R. Corradin, **L. Danese**, W. R. KhudaBukhsh, and A. Ongaro. Model-based clustering of time-dependent observations with common structural changes, 2024+. arXiv:2410.09552.

Conference proceedings

2025 **L. Danese**, R. Corradin, and A. Ongaro. Change points detection in eu inflation rates. In Enrico di Bella, Vincenzo Gioia, Corrado Lagazio, and Susanna Zaccarin, editors, *Statistics for Innovation III*, pages 67–72, Cham, 2025. Springer Nature Switzerland.

2023 R. Corradin, **L. Danese**, W. R. KhudaBukhsh, and A. Ongaro. Model-based clustering of non-stationary time series with common historical change times. ***Book of short papers SIS 2023****, Pearson, pp. 1139-1144, ISBN 9788891935618AAVV*, 2023.

Teaching Experience

Teaching Assistant

2025-NOW **Statistics I**, *B.Sc. in Marketing, Business Communication and Global Markets*, Università degli Studi di Milano - Bicocca.

2025-NOW **Statistical Modelling**, *M.Sc. in Economics*, Università Cattolica del Sacro Cuore, Milano.

2024-NOW **Statistics**, *Medicine and Biomedical Engineering*, Politecnico di Milano.

2024/2025 **Probability and statistical inference**, *B.Sc. in Artifical Intelligence*, University of Milano-Bicocca.

2022/2023 **Multivariate Statistical Analysis**, *B.Sc. in Statistical and Economic Sciences*, University of Milano-Bicocca.

2021/2022 **Quantitative Methods for Economy, Finance and Management**, *M.Sc. in Business Economics*, LIUC - Università Cattaneo.

Lecturer

2023 **PLS 2023 - "Primi passi di Data Science. La statistica come strumento per la classificazione"**, *Universiy of Milano-Bicocca*.

2022 **PLS 2022 - "Primi passi di Data Science. Un hackathon per risolvere un problema padroneggiando la Statistica"**, *High Schools*, Universiy of Milano-Bicocca.

2020 **PLS 2020 - "Come va il mondo? La risposta dei numeri"**, *High Schools*, Universiy of Milano-Bicocca.

2019 **PLS 2019 - "La visione del mondo basata sui fatti"**, *High Schools*, Universiy of Milano-Bicocca, Milan, Italy.

Presentations

Invited presentations

2024 **CFE-CMStatistics 2024**, *King's college, London (UK)*, Model based clustering of time-dependent observations with common historical shocks.

Seminars

2024 **University of Nottingham**, *PhD Seminars*, Model-based clustering of time-dependent objects with common changes in time.

Contributed talks/Poster presentations

2025 **BNP 14**, *Los Angeles, California*, Model-based clustering of time-dependent observations with common structural changes.

2025 **SIS 2025**, *Genova, Italy*, Change points detection in eu inflation rates.

2025 **BAYSM 2025**, *Online*, Model-based clustering of time-dependent observations with common historical shocks.

2024 **ISBA World Meeting 2024**, *Venice, Italy*, Model-based clustering of time-dependent observations with common historical shocks.

2023 **ICSDS 2023**, *Lisbon, Portugal*, Model-based clustering of pandemic trajectories with common historical changes in time.

2023 **SIS 2023**, *Ancona, Italy*, Model-based clustering of non-stationary time series with common historical change times.

2023 **Bayes Comp 2023**, *Levi, Finland*, Model-based clustering of non-stationary time series with common historical change times.

2022 **ISBA World Meeting 2022**, *Montreal, Canada*, Bayesian nonparametric change point detection for multivariate time series with missing observations.

Software

Author and mantainer, BayesChange: Bayesian Methods for Change Points Analysis.

Awards

2025 **Best poster award**, *BNP14, Los Angeles, USA*.

2025 **Best poster award**, *SIS2025, Genova, Italy*.

2025 **Travel award (500$)**, *BNP14, Los Angeles, USA*.

2023 **Travel award (200$)**, *Bayes Comp 2023, Levi, Finland*.

Research project grants

Local unit team member, *Department of Economics, Management and Statistics, University of Milano-Bicocca*, PRIN 2022 PNRR project *Measuring Biodiversity via Bayesian Nonparametrics: Estimation, Clustering and Uncertainty Quantification* funded by MUR. Local coordinator Prof. Federico Camerlenghi. National coordinator Prof. Igor Prünster.

Experiences

2023 **Workshop on Theory for Scalable, Modern, Statistical Methods**, *Bocconi University, Milan, Italy*, Aprile 5th - 7th 2023.

2022 **Lake Como School of Advanced Studies**, *Como, Italy*, May 2nd - 6th 2022.
RSFD - Robust Statistics: Foundations and recent Developments

Computer skills

Programming Languages	R, Python, Sas, SQL, C++
Operative System	Microsoft Winows, MAC OS, iOS

Languages

Italian, *mother tongue*.

English, *fluent*.