

Lucia Gallucci

✉ lucia.gallucci@uniroma1.it [in Lucia Gallucci](#) [G Lucia Gallucci](#)

Research Interests

- *Bayesian Nonparametrics*
- *Spatial modeling*
- *Computational Statistics*

Education

- PhD in Methodological Statistics**, Sapienza University of Rome, Italy Nov. 2024 – Present
- Supervisor: Prof. G. Jona Lasinio; Co-supervisor: R. De Vito
- Master's degree in Statistical Sciences**, Sapienza University of Rome, Italy Oct. 2022- Oct. 2024
- Thesis title: *Leveraging Natural Language Processing for Insights into Financial Statements*
 - Final vote: 110/110 cum laude.
 - Supervisor: Prof. P. P. Brutti
- Erasmus+ Program**, PSL - Université Paris Dauphine, France. Oct. 2023- Feb. 2024
- Master's courses in Mathematics of Insurance, Economics and Finance.
- Bachelor's degree in Economics**, Sapienza University of Rome, Italy Oct. 2019-Oct. 2022
- Thesis title: *The Role of Institutions in Economic Development: An Econometric Approach*
 - Supervisor: Prof. M. Ventura

Academic Experience

- Visiting Graduate Researcher**, Imperial College of London, London, United Kingdom Jan. 2026 - June 2026
- Project: Nonparametric models for underreporting in Spatial Data.
 - Supervisor: Prof. M. Blangiardo

Work Experience

- Doctoral Research Intern**, Italian National Institute of Health (ISS) Nov. 2024 – Present
- Support in statistical methodology for Autism Spectrum Disorder studies conducted by the Institute.
- Statistical Consultant**, Department of Translational and Precision Medicine - Sapienza Oct. 2024 -Jan. 2025
- Collaboration in statistical methodology for studies.
- Administrative collaborator**, Sapienza University of Rome, Italy Oct. 2021 - Oct. 2024
- Part-time collaboration fellowship.

Teaching Experience

Teaching Assistant

Machine Learning course for the Master program , Dept. of Economics, LUISS, Italy	Sept. 2026- July 2027
Bayesian and Spatial Analysis , Imperial College London, United Kingdom	Jan. 2026 - Apr. 2026
Statistics course for the Master program in LM-6 , Dept. of Ecobiology, Sapienza University, Italy	Sept. 2025- Feb. 2026
Statistics course for the Bachelor program in L-18 , Dept. of Economics, Roma Tre University, Italy	Jan. 2025 - Sept. 2025

Speaker

Training in statistical methodology for operators of anti-violence centers , Sapienza University of Rome, Italy	Sept. 2025 – Present
--	----------------------

Academic Service

PhD Students' Academic Representative , Sapienza University of Rome	Nov. 2025 – Present
Member, Quality Assurance Committee (CGAQ) , Sapienza University of Rome	Nov. 2025 – Present

Awards and Prizes

ISBA Travel Grant 2026 , International Society for Bayesian Analysis Title: <i>Hierarchical Bayesian Nonparametrics for Spatial Underreporting</i>	
Best Oral Presentation 2025 , International Biometric Society Title: Mapping the Geographic Distribution of Autism Spectrum Disorder in Italy Using Hierarchical Bayesian Models	

Grants

Principal Investigator

Research Grant for Junior Researcher , Sapienza University of Rome, Italy	2025
• SHAPE: Spatial Heterogeneity and Autism Prevalence Estimates (<i>Grant ID: AR125199C2B33865</i>)	
Full three-year PhD scholarship , Sapienza University of Rome, Italy	2024
• <i>Grant ID: B53C24002940006</i>	

Presentations

Invited

CFE-CMStatistics 2026 , Berlin, Germany	
Title: <i>A Dependent Dirichlet Process Approach to Population Size Estimation</i>	

Organized

IBS-IR-EMR 2025 , University of Salerno, Italy.	
Title: Mapping the Geographic Distribution of Autism Spectrum Disorder in Italy Using Hierarchical Bayesian Models	

Contributed

SIS-FENStatS 2026, Rome, Italy

Title: A Bayesian Nonparametric Model for Spatial Clustering

CIBB 2026, Rome, Italy

Title: A Dependent Dirichlet Process Approach to Population Size Estimation

Poster

ISBA World Meeting 2026, Nagoya, Japan

Title: Hierarchical Bayesian Nonparametrics for Spatial Underreporting

BAYSM 2026, Nagoya, Japan

Title: Hierarchical Bayesian Nonparametrics for Spatial Underreporting

IUMA day on Bayesian Analysis 2025, University of Zaragoza, Spain.

Title: Mapping the Geographic Distribution of Autism Spectrum Disorder in Italy Using Hierarchical Bayesian Models

Invited Seminars

Introduction to INLA and Disease Mapping 2025, Sapienza University of Rome, Italy

Introduction to Nonparametric Processes 2025, Sapienza University of Rome, Italy

Additional Education

Summer School 2025 - Applied Bayesian Statistics, University of Genova, Italy

Summer school on Spatio-temporal methods in environmental epidemiology. Instructors: Prof. Alex Schmidt, Dott. Carlo Zaccardi

Workshop SISBAYES 2025, University of Padova, Italy

Workshop on Bayesian methodology focused on model-based clustering, Bayesian causal inference, prior elicitation for complex models and graphical models.

Conference Organization

CIBB 2026, Rome, Italy - Local Organizing Committee

SIS-FENStatS 2026, Sapienza University of Rome, Italy - Support to conference organization

XII PhD-Day in Statistical Sciences 2025, Sapienza University of Rome, Italy - Organizing Committee

Outreach

Nutella o non Nutella – Interactive AI Demonstration, Maker Faire, Rome 2025

Developed an educational Shiny web app to illustrate statistical prediction and AI concepts to children through a playful experiment on recognizing “Nutella vs. not Nutella”.

Find the Intruder! – A Phylogenetic Game in Shiny, Sapienza University of Rome Open Day 2026

Developed an interactive Shiny application for high school orientation activities, introducing phylogenetic concepts through a game-based approach.

Skills

Languages: Italian (Native), English (C1), French (A2)

Programming: R, RStudio, Python, Stata, SQL.

General: \LaTeX , Office Package, Github, Overleaf, Rmarkdown.

Publications

Published

Ventura, M., Gallucci, L., Sangiovanni, G. M., et al. (2026). **Assessment of aquaculture impact on Lake Titicaca: Combining Bayesian modelling and C and N stable isotopes to support sustainable management of fish farming.** *Ecological Indicators*, 187, 114919.

Working papers

Gallucci, L., De Vito, R., Maraschini, A., Jona Lasinio, G., Blangiardo, M.

Spatial Heterogeneity of Autism Spectrum Disorder Hospitalizations Accounting for Underreporting.

Submitted to: *International Journal of Epidemiology*.

Micai, M., Gallucci, L., Navaser, H., Fulceri, F., Minelli, G., Jona Lasinio, G., Maraschini, A.

Autism Spectrum Disorder in Italy: National Estimates from Two Decades of Hospital Discharge Data.

Submitted to: *Epidemiology and Psychiatric Sciences*.

Gallucci, L., Zorzetto, D., Maraschini, A., De Vito, R., Jona Lasinio, G. (2026).

A Bayesian Nonparametric Model for Spatial Clustering.

In: *Statistical Science: From Theory to Applied Research I: SIS-FENStatS 2026*.

Sangiovanni, G. M., Gallucci, L., Balzotti, L., Firmani, D., Jona Lasinio, G., Resin, L.

To Hit or not to Hit: Computing Accuracy of Knowledge Graph Completion Tasks with Proper Scores.

Submitted to: *Proceedings of the VLDB 2026 (Demo Track)*.

Personal Interests

Competing Taekwondo athlete; passionate about trekking and reading.

I hereby authorize the processing of my personal data in accordance with Regulation (EU) 2016/679 (General Data Protection Regulation).