

# MARIA PAOLA PRIOLA

## PhD Student in Computational Statistics

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## EDUCATION

### Ph.D. in Computational Statistics

University of Cagliari, Italy

📅 2022 – 2025

Research focus: AI applications in healthcare, Green AI, hallucinations in generative models.

### M.Sc. in Data Science

University of Cagliari, Italy

📅 2023 – 2024

🎓 110/110 cum laude

Thesis: Environmental trade-offs in multiclass classification with Green AI.

### M.Sc. in Economics

University of Cagliari, Italy

📅 2011 – 2014

🎓 110/110 cum laude

Thesis on inflation-output uncertainty using VAR-GARCH models.

### B.Sc. in Economics and Finance

University of Cagliari, Italy

📅 2008 – 2011

🎓 110/110 cum laude

Thesis on European monetary integration.

### Scientific High School Diploma

Liceo G. Brotzu, Cagliari, Italy

📅 2003 – 2008

🎓 100/100

Specialization in mathematics and physics.

## EXPERIENCE

### Econometrician / Data Scientist

Prometeia

📅 2017 – 2022

📍 Bologna, Italy

- Designed ML and NLP models for central banks, focusing on monetary policy and sentiment analysis
- First author of two working papers on the application of data science to economics
- Supervised junior analysts and mentored students on thesis research

### Economist

NE Nomisma Energia

📅 2017

📍 Bologna, Italy

- Delivered the statistical framework for NECS Energy Prices model

### Fintech Analyst

Accenture

📅 2016 – 2017

📍 Milan, Italy

- Collaborated on derivatives system development for major banks, focusing on regulatory risk reporting

## PUBLICATIONS

### 📖 Books

- M. P. Priola, *Tutto ciò che ci accomuna*. Italy: La Zattera Edizioni, 2024, Charity novel on mental health awareness.

### 📄 Journal Articles

- M. P. Priola and M. Romano, “Balancing performance and environmental efficiency: A multiclass classification study of textual data,” *Electronic Journal of Applied Statistical Analysis*, vol. 18, no. 2, pp. 238–263, 2025, ISSN: 2070-5948. DOI: 10.1285/i20705948v18n2p238.
- M. Cimino, A. Molino, M. P. Priola, L. Prosperi, and L. Zicchino, “Unmasking climate risk in earnings calls: Traversing storms and fire with a taxonomy-gpt prompting approach,” 2024, Presented at: Green Finance Research Advances, Banque de France, Paris. DOI: 10.2139/ssrn.3309671.
- M. P. Priola, “Addressing hallucinations with rag and nmiss in italian healthcare llm chatbots,” 2024, Preprint.
- M. P. Priola, A. Molino, G. Tizzanini, and L. Zicchino, “The informative value of central banks talks: A topic model application to sentiment analysis,” *Data Science in Finance and Economics*, vol. 2, no. 3, pp. 181–204, 2022.
- M. P. Priola, P. Lorenzini, G. Tizzanini, and L. Zicchino, “Measuring central banks’ sentiment and its spillover effects with a network approach,” 2021.

### 👥 Conference Proceedings

- M. Romano and M. P. Priola, “Multi-class text classification of news data,” in *Proceedings of the Statistics and Data Science 2024 Conference: New Perspectives on Statistics and Data Science*, 2024.

## STRENGTHS

Hard-working    Fast Learner    Curious

## TECH SKILLS

Python    R    SQL    Excel    NLP    LLMs    AI  
Time Series    Econometrics    Writing

## LANGUAGES

English | Spanish    ● ● ● ● ●

## ACTIVITIES

🎸 Music (Guitar)    ✍ Writing  
🏔 Trekking & Nature    🌐 Travelling  
❤️ Voices and Words for Mental Health Charity Project

## LIFE PHILOSOPHY

*Be an unsupervised human learner*