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. 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

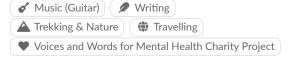Python   R   SQL   Excel   NLP   LLMs   AI   Time Series   Econometrics   Writing

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