

Maria Paola Priola

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EDUCATION

- University of Cagliari, Italy – Faculty of Economics* *Nov 2022 – Nov 2025*
PhD in Economics, major in **Data Science**
- Doctoral research project focused on designing an IT platform that utilizes artificial intelligence and machine learning to analyze structured and unstructured healthcare data available from various sources
- University of Cagliari, Italy – Faculty of Economics* *Sep 2023 – July 2024*
Master's Degree in **Data Science**
- Final grade: **110/110 cum laude**
 - Thesis (in English): "Optimizing Accuracy and Green Computing: A Study on Multiclass Text Classification".
 - Major subjects: Informatics, Statistics, Big Data Analysis.
- University of Cagliari, Italy – Faculty of Economics* *Sep 2011 – Mar 2014*
Master's Degree in **Economics**, major in **Monetary and Financial Markets**,
- Final grade: **110/110 cum laude**
 - Thesis (in English): "The relationship between inflation, output and their uncertainties: a VAR-GARCH estimation for the case of Argentina".
 - Major subjects: Advanced Econometrics, Applied Mathematics, Macroeconomics, Advanced Statistics & Microeconomics, Game Theory, International Economics, Asset Pricing.
- IAE Business School, Buenos Aires, Argentina* *Sep 2013 – Dec 2013*
- Recipient of the Globus scholarship to develop the research proposal for the dissertation in Buenos Aires.
- University of Cagliari, Italy – Faculty of Economics* *Sep 2008 – Jul 2011*
Bachelor's Degree in **Economics and Finance**, major in **Monetary and Financial Markets**
- Final grade: **110/110 cum laude**
 - Dissertation: "The reasons why the European Union is not considered an Optimal Currency Area".
 - Major subjects: Econometrics, Macroeconomics, Microeconomics, Monetary Economics, Statistics & Probability
- Wirtschaftsuniversität Wien, Austria – University of Economics and Business* *Sep 2010 – Feb 2011*
LLP Erasmus Exchange Student
- Subjects: VBA programming, International finance, Macroeconomics
- High School of Quartu S.E., Italy *Sep 2003 - Jul 2008*
Diploma, specialization in **Scientific Studies** with final grade: **100/100**

WORK EXPERIENCE

- Econometrician / Data Scientist** *Oct 2017 – Aug 2022*
Prometeia SPA
- Econometrician working with data science methodologies applied to economics
 - Focused as Data Scientist on research about natural language processing, machine learning and text / audio analysis for central banking and monetary policy, yield curves forecasting
 - work automation with Excel, VBA
 - Experience in developing and debugging in Python and statistical software (R)
 - Redaction of working papers & economic articles about asset allocation, macroeconomics and finance
 - First author of two working papers (one published) on data science applied to economics
 - Coordinating interns & junior staff
- Economist** *Apr 2017 – Sep 2017*
Ne Nomisma Energia
- Carried out research and data analytics on energy, economics and trends on daily basis
 - Delivered the top-down statistical framework for NECS Energy Prices model
 - Performed analysis for the Economics applied to the Energy Market
- Fintech Analyst** *Jan 2016 – Mar 2017*
Accenture (from 01/2016 to 01/2017 as Agilex sub-contractor), Milan – Italy

- Provided IT/Financial consultancy regarding the implementation of derivatives products for Intesa San Paolo & IMI Traders
- Performed data-analysis and business analytics

Finance/Journalist Erasmus Placement

Mar 2012 – Jun 2012

Confindustria, Bucharest – Romania

- Conducted market researches on Romanian economy.
- Developed projects within a teamwork focused on the organization of public events for Italian companies.
- In charge of the daily releases focused on finance and economics for the online newsletter.

Freelance Journalist

Oct 2007 – Dec 2012

Various on-line journals

- Redacted articles of technology, economics or facts involving the Cagliari area.
- Responsible of the movies list database and conducted weekly movie reviews.

Traineeships:

- **Capital Markets Analyst** at Bank of Sardinia (Sassari, Italy)
- **Investment Analyst** at MoneyFarm (Milan, Italy)

Feb 2015 – Aug 2015

May 2014 – Oct 2014

Summer abroad experiences:

- **Receptionist** at Youth Hostel, Inverness – Scotland
- **Au-pair** at Limerick – Ireland

Jul 2009 – Sep 2009

Jun 2007 – Aug 2007

SKILLS & CERTIFICATIONS

Language Skills:

- Native Italian – Fluent English (7.5 IELTS) – Fluent Spanish – Basic Portuguese

Technical Skills:

- Windows and Linux Operative Systems (advanced).
- Statistical Packages: R (advanced), Python (advanced)
- Excel (advanced): VBA macros, User Defined Functions, pivot tables, big data analysis, statistical and math functions
- Database management: SQL, SSL & Programming Skills: MySQL, Unix Shell, Python (proficient)
- Bloomberg and Reuters Certified User.

Certifications

- IELTS (7.5); Thomson Reuters Certification & Bloomberg BESS.

Publications

- Maria Paola Priola, Annalisa Molino, Giacomo Tizzanini, Lea Zicchino. The informative value of central banks talks: a topic model application to sentiment analysis[J]. Data Science in Finance and Economics, 2022, 2(3): 181-227. doi: 10.3934/DSFE.2022009
- Priola, Maria Paola and Lorenzini, Piero and Tizzanini, Giacomo and Zicchino, Lea, Measuring Central Banks' Sentiment and its Spillover Effects with a Network Approach (January 11, 2021). <http://dx.doi.org/10.2139/ssrn.3764004>

INTERESTS

Journalism, statistical analysis, econometric modelling, data science.

HOBBIES

Reading and writing novels and news. Movies. Guitar player. Enjoy all sports: running, snowboarding and soccer. Trekker. Love to travel and experience different cultures.

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