Nicola Bartolini

+39-351-80-74-833 | nicola.bartolini@live.it | bart1995olo@gmail.com
Address: Via Piave 3/A Cecina (Li) 57023 - Italy
Linkedin : https://www.linkedin.com/in/nicola-bartolini-566b4418a/
GitHub : https://github.com/NicolaBartolini

Education

University of Bologna
PhD in Statistics. *Jan. 2022 – June 2025*

University of Bologna
Master degree in Quantitative Finance. ***Grade****: 110/110 cum laudae* *Sep. 2018 – Dec 2020*

University of Pisa
Bachelor in Banking, Finance, and Financial Markets. ***Grade****: 110/110* *Sep. 2014 – Feb 2018*

Experience

Post Doc Researcher 01/2025 - present
University of Bologna *Bologna (Italy)*

Teaching Assistant Spring 2025
University of Bologna *Bologna (Italy)*

- Tutor for the course "Pyhton Coding and Data Science"

Teaching Assistant Spring 2023-2024
University of Bologna *Bertinoro (Italy)*

- GreenFin Summer Schoot at Bertinoro

Teaching Assistant Fall 2021-2022-2023-2024
University of Bologna *Bologna (Italy)*

- Lectures for the crash course in "Reassessment of Real Analysis"

Summer job 05/2012 - 09/2012 06/2013 - 09/2013
Bagno La Zattera *Donoratico (Italy)*

- Full time lifeguard on the beach

Other Activities

XXV Quantitative Finance Workshop 11/04/2024 - 13/04/2024
University of Bologna *Bologna (Italy)*

- Organizing committee

Publications

[1] Nicola Bartolini, Silvia Romagnoli, Rafay Abdul. "Hedging the Financial Risk of Water Scarcity: The Use of Weather Derivatives". *Modern Concepts and Practices of Climate Finance*, 1–44, 2024.

[2] Nicola Bartolini, Silvia Romagnoli, Amia Santini. "Water Shortage and Mitigation Solutions: a focus on new physical and financial hedging tools.". *The Journal of Futures Markets*, 2025.

[3] Nicola Bartolini, Silvia Romagnoli, Amia Santini. "A climate risk hedge? Investigating the exposure of green and non-green corporate bonds to climate risk". *Energy Economics*, 2025.

Skills

Analytical |

- **Mathematics**: Probability Theory, Stochastic Calculus, Real and Complex Analysis, Financial Mathematics
- **Econometrics**: Time Series Analysis
- **Computational finance**: Simulations of stochastic processes via Monte Carlo method.
  Variance reduction techniques(antithetic variate and control variate), Fourier methods for option pricing

Programming |

- **Languages**: Python (intermediate), C++ (basic), Matlab (basic), LaTex
- **Lybraries**: Scipy, Pandas, NumPy, Matplotlib, boost(C++)
- **Software**: Docker

Languages

Languages |

- **Italian**: Mother
- **English**: B2