Edoardo Berton

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Education

Università Cattolica del Sacro Cuore

Milan, Italy

PhD in Economics and Finance

2021 - present

Università degli Studi di Milano

Milan, Italy

M.Sc. in Finance and Economics (curriculum: Quantitative Finance)

2018 - 2020

Ludwigs-Maximilians Universität - LMU

Munich, Germany

Erasmus+ semester

2019 - 2020

Università degli Studi di Milano - Bicocca

Milan, Italy

B.Sc. in Economics and Business (curriculum: Financial Economics)

2014 - 2018

Academic Positions

Teaching Assistant

Milan, Italy

Politecnico di Milano

• Mathematical Finance II (M.Sc. Mathematical Engineering), Academic Year: 2024/25.

Teaching Assistant

Milan, Italy

Università degli Studi di Milano

- Optimization (M.Sc. Economics and Political Sciences), Academic Years: 2023/24, 2022/23, 2021/22.
- Mathematics Crash Course (incoming M.Sc. students), Academic Years: 2023/24, 2022/23.

Teaching Assistant

Milan, Italy

Università Cattolica del Sacro Cuore

• Mathematics (B.Sc. Banking and Finance), Academic Year: 2023/24.

Research Assistant

Barcelona, Spain

Esade Business School May 2021 - Sept. 2023

• Support Prof. Carlo Sala with paper replication, data analysis, algorithm development (main focus on Asset Pricing, Risk Management and Mathematical Finance).

Associations

Member of the Italian Association of Mathematics Applied to Economic and Social Sciences (AMASES)

Member of the National Institute for Advanced Mathematics: Group of Mathematical Analysis, Probability and Applications (INdAM - GNAMPA)

Publications _____

E. Berton, L. Mercuri, (2023) **An Efficient Unified Approach for Spread Option Pricing in a Copula Market Model**, Annals of Operations Research

Preprints _____

E. Berton, A. Doldi, M. Maggis, (2024) On Conditioning and Consistency for Nonlinear Functionals, ArXiv

Rome, 2024
Bologna, 2024
Milan, 2024
Athens, 2021
Warsaw, Poland Sept. 2020 - Oct. 2021

- Calibration and maintenance of Commodity-PCA curves simulation model.
- Development of Python library for data-cleaning and data-enhancement process.
- Minor involvement in portfolio VaR computations.

Intern, Credit Analysis

Munich, Germany Mar. 2020 - Aug. 2020

HypoVereinsbank

- Support in the preparation of Credit Risk Assessments.
- Cash-flow modelling and Credit Rating Issuance.
- Industry Analysis, Peer Group Analysis and Financial Reports Analysis.

Summer Schools

Computational Methods in Finance and Economics

Pisa, 2024

Centro di Ricerca Matematica (CRM), Scuola Normale Superiore

Winter School in Stochastic Processes, Analysis and Semigroups

Trento, 2022

University of Trento

Projects

Heston-Nandi GARCH Python Library, GitHub

2021

- Development of a Python library related to "A Closed-Form GARCH Option Valuation Model" by Heston and Nandi (2000),
- Library includes GARCH fit to data, Montecarlo Simulation Pricing and Pricing through Analytical Formula.

Additional Information

Languages Native in Italian, fluent in English, intermediate in German