

Francesco Pattarin

Updated September 23, 2023

Position: Associate Professor of Banking & Finance

University: Modena and Reggio Emilia (Unimore)

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Department: Economics

Office: 16 West wing

Research interests

Artificial intelligence and machine learning for business, especially finance. Corporate Social Responsibility (CSR) and Environment, Social and Governance (ESG) themes with respect to corporate and institutional investors' performance. Innovations in financing for households and SMEs. Network analysis and artificial agents models in economics and finance.

Affiliations

AIRI - Artificial Intelligence Research and Innovation Center (Unimore)
<https://www.airi.unimore.it/>

CEFIN - Centro Studi in Banca e Finanza (Unimore)
<http://www.cefin.unimore.it>

Teaching

Professor (Unimore)

Department Economics

2022 to date

Finance and Markets

Corporate finance and financial markets, with a slant on digital innovations.
MSc level course (9 ECTS)

Banking and Finance

Basics of finance: financial systems, intermediaries, markets, securities and regulation.
BA level course (3 ECTS)

Professor (Unimore)

Department Economics

Department of Economics and Communications Sciences 2004 to 2021

Quantitative Methods for Finance

Intermediate level econometrics: analysis of cross-section and time series data, limited dependent variable models.
MSc level course (5 ECTS)

Financial Analysis

Quantitative portfolio management and financial investments.
MSc level course (6 ECTS)

Mathematical Finance
Basics of financial mathematics.
BA level course (3 ECTS)

Asset management
Basics asset management.
BA level course (6 ECTS)

Other

2001 to 2019

Econometrics for Finance - Università Cattolica del Sacro Cuore (Milan, IT)
Advanced econometrics: analysis of cross-section and panel data.
PhD level course (2 ECTS)

Portfolio management - University of Economics (Tirana, AL)
Quantitative portfolio management and financial investments.
MSc level course (2 ECTS)

Theory of Finance - Unimore
Quantitative financial models, valuation and risk management.
MSc level course (3 ECTS)

Panel Data Econometrics with Applications - Università del Salento (Lecce, IT)
Econometric analysis of panel data, static and dynamic, with applications in Stata.
PhD level course (2 ECTS)

Portfolio management - MBA in Finance and Entrepreneurship (Fondazione Cassamarca, Conegliano, IT)
Quantitative portfolio management and financial investments.
MBA level course (2 ECTS)

Microeconomics - Unimore
Introductory microeconomics.
BA level course (6 ECTS)

Research

Latest research projects as Principal Investigator.

Scale-up Fintech
Department of Economics (UniMoRe).
Funding: 15k euro.

2021 - 2022

Digital transformation and open banking
Department of Economics (UniMoRe).

2019 - 2020

Funding: 5k euro.

Asset management in Italian banking foundations 2010 - 2018
Department of Economics (UniMoRe) and Fondazione Cassa di Risparmio di
Modena.

Funding: 50k euro.

Professional

KF Economics (Milan, IT)

Advisor 2005 to date

Development of credit scoring models of Italian firms. Forecast models of cash
flows for treasury management.

Credem Banca (Reggio Emilia, IT)

Advisor 2019 - 2021

Development of quantitative models for internal audit and employees reten-
tion. Valuation of digital skills of employees.

Sinloc - Sistema Iniziative Locali (Padova, IT)

Advisor 2018-2021

Merit and credit scoring of students applying for private grants.

E:Lab Consulting (Modena, IT)

Advisor 2016-2018

Development of surveys about employees' engagement for a multinational re-
tail group.

Prometeia (Bologna, IT)

Advisor 2000 - 2008

Development of quantitative models for portfolio selection and risk manage-
ment of institutional investors.

Career

Associate professor 2022 to date

Adjunct professor 2004 - 2022

Researcher 2000 - 2003

Lecturer 1999 - 2000

Education

Doctorate in Economics
University of Rome "La Sapienza" 2001

MSc in Finance
Birkbeck College - University of London 1999

**Latest
publications**

Spread of Perturbations in Supply Chain Networks: The Effect of the Bow-Tie Organization on the Resilience of the Global Automotive System.

Flori E., Paterlini S., Pattarin F. and Villani M. (2023).

Communications in Computer and Information Science, Springer.

DOI: 10.1007/978-3-031-31183-34.

Institutional Drivers of Voluntary Carbon Reduction Target Setting: Evidence from Poland and Hungary.

Dos A., Blach J., Lipowicz M., Pattarin F. and E. Flori (2023).

Sustainability.

DOI: 10.3390/su151411155.

Predicting Employee Attrition by Machine Learning.

Manafi V.S., Pattarin, F., Fabbri, T. and G. Fantoni (2022).

Authorea.

DOI: 10.22541/au.166854257.74741822/v1

Drivers of CSR anchoring in Transition Economies: Evidence from Poland.

Dos A and F. Pattarin (2021).

Business Ethics, the Environment and Responsibility.

DOI: 10.1111/beer.12363.

Business Models in Lending-Based Crowdfunding Industry.

Cosma S., Pattarin F. and Pennetta D. (2020).

in: Cruciani C., Gardenal G. and E. Cavezzali (eds.), *Banking and Beyond: The Evolution of Financing along Traditional and Alternative Avenues*, Palgrave MacMillan.

ISBN: 978-3-030-45751-8.

Risk and Pricing on the Italian Minibond Market.

Grasso A. G and F. Pattarin (2019).

in: Gualandri E., Venturelli V. and A. Scip. (eds.), *Frontier topics in banking*, Palgrave MacMillan.

ISBN: 978-3-030-16294-8.

Di Bonaventura L., Forni M. and F. Pattarin, F. (2018).

The Forecasting Performance of Dynamic Factor Models with Vintage Data.

CEPR Discussion Papers, n. 13034.

<https://cepr.org/publications/dp13034>.

Service	AIRI, Unimore Scientific committee.	2020 to date
	CEFIN, Unimore Executive committee.	2010 to date
	Department of Economics, Unimore Executive committee.	2020 - 2022
Skills	Coding Advanced: R , Matlab, Stata, LaTeX. Intermediate: Python.	
	Languages (CEFR level) Italian: mother tongue. English: Listening, Reading, Speaking and Written: Advanced (C2). French: Listening, Reading and Speaking: Intermediate (B2), Writing: Intermediate (B1).	
	Communicating Advanced skills in written and oral communication in the academic, teaching and advising fields.	
Interests	Cooking Almatea Scuola di Cucina (Modena, IT)	
	Photography London School of Photography (London, UK)	
	Free diving Apnea Academy (Modena, IT)	