

Francesco Pattarin

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Position: Associate Professor of Banking & Finance **Email:** francesco.pattarin@unimore.it

University: Modena and Reggio Emilia (Unimore) **Department:** Economics

Address: 51, V.le Berengario - 41121 Modena (Italy) **Office:** 14 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.

Career	Associate professor	2022 to date
	Researcher	2004 - 2022
	Lecturer	1999 - 2000

Teaching		2022 to date
	Finance and Markets Corporate finance and financial markets, with a slant on digital innovations. MSc level course (9 ECTS)	
		2004 to date
	Quantitative Methods for Finance Intermediate level econometrics with applications in R MSc level course (6 ECTS)	
		2022 -2023
	Banking and Finance Basics of finance: financial systems, intermediaries, markets, securities and regulation. BA level course (3 ECTS)	
		2004-2021
	Financial Analysis Quantitative portfolio management and financial investments. MSc level course (6 ECTS)	
	Mathematical Finance Basics of financial mathematics. BA level course (3 ECTS) Department of Economics and Communications Sciences (Unimore)	

Teaching

2004-2021

Asset management
Basics asset management.
BA level course (6 ECTS)
Department of Economics and Communications Sciences (Unimore)

Household finance
Financial decision making of households
BA level course (3 ECTS)
Department of Economics and Communications Sciences (Unimore)

Financial modelling
Quantitative financial models, valuation and risk management.
MSc Level course (6 ECTS)
Department of Economics and Communications Sciences (Unimore)

Other 2000 to 2019

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

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

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

Panel Data Econometrics with Applications
Econometric analysis of panel data, static and dynamic, with applications in Stata.
PhD level course (3 ECTS)
Università del Salento (Lecce, IT)

Portfolio management - MBA in Finance and Entrepreneurship
Quantitative portfolio management and financial investments
MBA level course (3 ECTS)
Fondazione Cassamarca (Conegliano, IT)

Microeconomics
Introductory microeconomics
BA level course (3 ECTS)

Research	Latest research projects as Principal Investigator	
	Scale-up Fintech Funding: 15k euro	2021 - 2022
	Digital transformation and open banking Funding: 5k euro	2019 - 2020
	Asset management in Italian banking foundations (with Fondazione Cassa di Risparmio di Modena) Funding: 50k euro	2010 - 2018
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	
Academic service	Scientific Committee AIRI (Unimore)	2020 to date
	Scientific Committee CEFIN (Unimore)	2010 to date
	Executive Committee Departement of Economics (Unimore)	2020 - 2022
Professional advisory	KF Economics (Milan, IT) Development of credit scoring models of Italian firms. Forecasting models of cash flows for treasury management.	2005 to date
	Credem Banca (Reggio Emilia, IT) Development of quantitative models for internal audit and employees retention. Valuation of digital skills of employees.	2019 - 2021
	Sinloc - Sistema Iniziative Locali (Padova, IT) Merit and credit scoring of students applying for private grants.	2018 - 2021
	E:Lab Consulting (Modena, IT) Development of surveys about employees' engagement for a multinational retail group	2016 - 2018
	Prometeia (Bologna, IT) Development of quantitative models for portfolio selection and risk management of institutional investors.	2000 - 2008
	Doctorate in Economics	2001

Education	Faculty of Economics University of Rome “La Sapienza”	
	MSc Finance Birkbeck College University of London	1999
	BA in Economics Faculty of Economics and Business University of Modena	1995

Latest publications	Predicting employee attrition and explaining its determinants. (2025) Manafi Varkiani S., Pattarin F., Fabbri T. and Fantoni, G. <i>Expert Systems with Applications</i> DOI: 10.1016/j.eswa.2025.126575	
	Evaluation of the pandemic impact on global automotive supply chain through network analysis. (2025) Flori E., Paterlini S., Pattarin F. and Villani M. <i>Journal of Economic Interaction and Coordination</i> DOI: 10.1007/s11403-024-00440-0	
	Getting some fuel from incumbents: bank-FinTech relationships and effects on newcomers’ performance (2024) Cosma S., Pennetta D. and Pattarin F. <i>Venture Capital</i> DOI: 10.1080/13691066.2024.2433664	
	Spread of Perturbations in Supply Chain Networks: The Effect of the Bow-Tie Organization on the Resilience of the Global Automotive System (2023) Flori E., Paterlini S., Pattarin F. and Villani M. <i>Communications in Computer and Information Science, Springer</i> . DOI: 10.1007/978-3-031-31183-34.	
	Institutional Drivers of Voluntary Carbon Reduction Target Setting: Evidence from Poland and Hungary. (2023) Dos A., Blach J., Lipowicz M., Pattarin F. and E. Flori <i>Sustainability</i> DOI: 10.3390/su151411155.	
	Drivers of CSR anchoring in Transition Economies: Evidence from Poland. (2021) Dos A and F. Pattarin <i>Business Ethics, the Environment and Responsibility</i> DOI: 10.1111/beer.12363.	

Latest publications Platforms' partner networks: the missing link in crowdfunding performance
 Cosma S., Grasso A.G., Pattarin F. and Pedrazzoli A. (2021)
The European Journal of Innovation Management
 DOI: 10.1108/EJIM-06-2020-0230

Business Models in Lending-Based Crowdfunding Industry (2020)
 Cosma S., Pattarin F. and Pennetta D.
 In: Cruciani C., Gardenal G. and E. Cavezzali (eds.)
Banking and Beyond: The Evolution of Financing along Traditional and Alternative Avenues
 Palgrave McMillan.
 ISBN: 978-3-030-45751-8.

Risk and Pricing on the Italian Minibond Market. (2019)
 Grasso A. G and F. Pattarin
 In: Gualandri E., Venturelli V. and A. Scip. (eds.)
Frontier topics in banking
 Palgrave McMillan.
 ISBN: 978-3-030-16294-8

The Forecasting Performance of Dynamic Factor Models with Vintage Data (2018)
 Di Bonaventura L., Forni M. and F. Pattarin, F.
 CEPR Discussion Papers, n. 13034.
<https://cepr.org/publications/dp13034>

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.

Personal interests Cooking
 Almatea Scuola di Cucina (Modena, IT)

Photography
 London School of Photography (London, UK)

Freediving
 Apnea Academy (Modena, IT)