

# Gabriele Torri

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## Work Experience

- Università degli Studi di Bergamo BERGAMO, ITALY  
**Associate professor (Professore di Seconda Fascia)** 01.12.2025 – current  
SSD Metodi matematici dell'economia e delle scienze attuariali e finanziarie (SECS-S/06). Department of Economics.
- Assistant professor (Ricercatore a tempo determinato, RTDb)** 01.12.2022 – 30.11.2025  
SSD Metodi matematici dell'economia e delle scienze attuariali e finanziarie (SECS-S/06). Department of Economics.
- Junior researcher (Ricercatore a tempo determinato, RTDa)** 01.10.2019 – 30.11.2022  
SSD Metodi matematici dell'economia e delle scienze attuariali e finanziarie (SECS-S/06). *period 01.10.2019 – 30.09.2020: Department of Management, Economics and Quantitative Methods; period 01.10.2020 – 30.11.2022: Department of Economics.*
- Postdoc (assegno di ricerca)** 01.05.2019 – 30.09.2019  
Post doc position, assigned under the STARS project of the University of Bergamo. Research project: *Cause ed effetti della diffusione di portafogli sempre più overlapping sul rischio sistemico* (Causes and consequences of the increasingly overlap of portfolio strategies on systemic risk). Department of Management, Economics and Quantitative Methods.
- European Central Bank FRANKFURT, GERMANY  
**External consultant** 01.05.2019 – 30.09.2019  
Development and implementation of a micro-structural contagion model for the analysis of systemic risk for the Interconnectedness Coordination Group; Contribution to the *Climate related asset project*. The project is carried on within the DG-MF directorate, in the *Systemic Risk and Financial Institutions* Division.
- PhD Trainee** 15.10.2018 – 15.03.2019  
Development of a framework for the analysis of systemic risk due to interconnectedness using micro-structural data. The project is carried on within the DG-MF directorate, in the *Systemic Risk and Financial Institutions* Division.
- Etica Sgr MILAN, ITALY  
**Marketing and Communication** 15.07.2013 – 15.09.2015  
Etica Sgr is an Italian asset management company specialized in sustainable and responsible investment funds. Main activities: market researches, customer analysis, internal reporting, editing promotional and educational material for the distribution network.
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## Education

- Università degli Studi di Bergamo - VŠB-TU Ostrava (co-tutelle) BERGAMO, ITALY  
**PhD in Analytics for Economics and Business ( Area 13/D4 - SECS-S/06)** 01.10.2015 – 15.02.2019  
Area: Computational Methods for Economics and Finance. Main topics: applied optimization, stochastic methods and statistics with focus on financial applications, including portfolio management, credit and operational risk and financial contagion. XXXI Cycle.  
Supervisor: Prof. Rosella Giacometti. Co-Supervisor: Prof. Tomáš Tichý.  
Thesis title: Network Theory in Finance: Applications to Financial Contagion Analysis and Portfolio Optimization. Final evaluation: Excellent
- CRoNoS LIMASSOL, CYPRUS  
**Spring Course on Multivariate Data Analysis and Software** 03.04.2018 – 05.04.2018  
Short training. The course discusses several state-of-art application of machine learning and multivariate data analysis, with a focus on applications in the R programming language. Main topics: multivariate outlier detection, Parallelisation of machine learning models with h2o, changepoint analysis.
- ARPM NEW YORK, USA  
**Advanced Risk and Portfolio Management Bootcamp** 14.08.2016 – 20.08.2016  
Short training. The course consolidates portfolio managers' and risk managers' expertise into a structured and rigorous quantitative framework and empowers learners to gain the deep technical knowledge necessary to operate across the world of quantitative trading, asset management and risk management.

University of Palermo, University of Verona, and AMASES	ALBA DI CANAZEI (TN), ITALY
<b>Summer School in Economics and Finance</b>	25.07.2016 – 29.07.2016
Short training. Networks and big data analysis in economics, finance, and social sciences.	
EBS University	WIESBADEN, GERMANY
<b>EBS PhD Summer School - Financial Networks</b>	27.06.2016 – 01.07.2016
Short training. Application of network theory to the study of financial problems and institutions. The focus is on applications in working with financial data to uncover patterns and use them to uncover predictions that would not have been possible without network analysis.	
Università degli Studi di Bergamo	BERGAMO, ITALY
<b>Master's degree in Finance and International Business</b>	2012 – 2015
Thesis: <i>Sustainability and Financial Value. Portfolio Returns and Performance Attribution of Socially Responsible Investing</i> . Final grade: 110 / 110 cum laude.	
Università degli Studi di Milano	MILAN, ITALY
<b>Bachelor's Degree in Social Science for Globalization</b>	2008 – 2011
Thesis: <i>Social business and private equity: opportunities and risks: a critical analysis on corporate social responsibility</i> . Final grade: 108 / 110.	

## Qualifications

<b>Abilitazione Scientifica Nazionale (National Scientific Qualification).</b>	01.06.2022
Abilitazione per Professore di II Fascia nel settore concorsuale 13/D4 Metodi Matematici dell'economia e delle Scienze Attuariali e Finanziarie, ASN 2021-2023, Secondo Quadrimestre.	
Validity: 01.06.2022 – 01.06.2034.	

## Teaching Experience

Università degli Studi di Bergamo	BERGAMO, ITALY
	AY 2021-22 – 2025-26
MSc. course <i>Asset Pricing and Risk Analysis</i> (6 CFU, 48 hours, in english, SECS-S/06). Topics: Derivative pricing, risk measures, fixed income securities. (Titolare dell'insegnamento).	
	AY 2022-23 – 2025-26
BSc. course <i>Quantitative Methods for Business and Data Analysis, module 2</i> (3 CFU, 24 hours, in english, SECS-S/06). Main topics: modelization of economic and financial time series with ARIMA and GARCH model; risk measures.	
	AY 2017-18 – 2025-26
BSc. course <i>Matematica Finanziaria (Gruppo OZ)</i> (Financial Mathematics, 6 CFU, 48 hours, SECS-S/06). Main topics: capitalization and discounting regimes, evaluation of annuities and perpetuities, evaluation of investment projects, introduction to actuarial mathematics. (Titolare dell'insegnamento a partire dall'anno accademico 2019-20).	
	AY 2023-24 – 2025-26
Post-graduate course (Scuola di Alta Formazione) <i>Modelli avanzati per dati finanziari</i> in the program "DADs (Data Analyst per Decisioni Strategiche)". (10 hours AY 2022-23, 6 hours AY 2023-24, 8 hours AY 2024-25 – 2025-26).	
	AY 2023-24 – 2025-26
PhD course <i>Theoretical Perspectives: Theories in Finance mod 1</i> (Seminar for the PhD program: <i>Management Accounting and Finance</i> ). (5 hours AY 2023-24 – 2024-25, 7 hours AY 2025-26).	
	AY 2021-22 – 2022-23
PhD course <i>Finance</i> (Seminar for the PhD program: <i>Applied Economics and Management</i> ). Topic: Foundations for Financial Economics. (AY 2021-22: 3 hours, AY 2022-23: 6 hours).	
	AY 2019-20 – 2020-21
PhD course <i>Network Analysis for Systemic Risk</i> (Seminar for the PhD program: <i>Applied Economics and Management</i> ). (AY 2019-20: 6 hours, AY 2020-21: 3 hours).	
	AY 2021-22
BSc. course <i>Elementi di Matematica (Introductory calculus, 6 CFU, 48 hours, SECS-S/06)</i> . Topic: Introductory calculus. (Titolare dell'insegnamento).	
	AY 2019-20 – 2020-21
BSc. course <i>Models and Methods for Economics and Finance, module 2</i> (3 CFU, 24 hours, SECS-S/06). Main topics: risk measures, Markowitz portfolio optimization, CAPM, portfolio regularization.	

AY 2020-21

BSc. short course *soft skills seminars: data visualization* (4 hours). Main topics: representation of quantitative data, theory and applications with Microsoft Excel and Tableau.

AY 2019-20

MSc. additional course *ARPM Quant Bootcamp*. Main topics: quantitative finance, data science, quantitative portfolio selection. The course is supported by an online platform and is organized with *flipped classrooms* and periodic assignments (duties: coordination of the flipped classrooms and tutoring of the students).

AY 2017-18

Teaching assistance and lab sessions for the MSc. course *Credit and Operational Risk Measurement*. Main topics: Structural models, reduced form models, portfolio models, credit derivatives, operational risk in financial institutions (prot. n. 69783/VII/16 dell'1.07.2016).

AY 2017-18

Lab sessions for the BSc. course *Informatics*. Topic: introduction to Microsoft Excel and Microsoft Access.

### **Thesis supervision**

Supervisor of 50+ bachelor students and 19 master students (main topics: systemic risk, credit risk, sustainable finance, portfolio optimization, market efficiency, shadow banking, network analysis, crypto-currencies).

EBS University

WIESBADEN, GERMANY

### **Lecturer**

AY 2016-17 – AY 2017-18

Tutorials for the university BSc. courses *Statistics* and *Introductory Econometrics*  
Prep. course in *Econometrics* for MSc course.

## **Institutional roles**

Università degli Studi di Bergamo

BERGAMO, ITALY

### **Member of the University's AI Interdisciplinary Working Group.**

nov 2023 – current

The University's AI Working Group reflects on the societal impacts of Artificial Intelligence and sets cross-disciplinary agendas to address its scientific challenges.

### **Member of the board of the PhD program "Artificial Intelligence for Sustainable Futures" mar 2025 – current**

PhD program at the University of Bergamo.

### **Member of the board of the PhD program "Management, Accounting and Finance" mar 2023 – mar 2025**

PhD program at the University of Bergamo.

### **Delegate for communication of the Department of Management**

mar 2024 – current

Main duties: supervision of institutional communication and social media activities for the department, coordination with the University's communication office.

### **Delegate for communication of the Department of Economics**

feb 2022 – dec 2022

Main duties: supervision of institutional communication and social media activities for the department, coordination with the University's communication office.

### **Reference person for math pre-courses (referente OFA)**

jan 2022 – dec 2022

Main duties: organization of the pre-courses and the evaluation procedures for the School of Economics and Management.

### **Member of the working group for the new strategic plan of the Dep.t of Economics mar 2022 – current**

Main duties of the group: identification of the main strategic challenges and opportunities, mapping of stakeholders, and definition of the lines of the next strategic plan for the Department of Economics.

### **Member of the council of "Centro di Competenze Linguistiche" (center for language skills) feb 2022 – dec 2024**

Main duties of the center: organization of language courses for all the departments of the university, preparation of online teaching material, coordination across the departments for language certifications.

## **Other activities**

Università degli Studi di Bergamo

BERGAMO, ITALY

Nov 8 2024

Organization and participation to the round table "*I'IA in azienda: una trasformazione olistica. Dialogo tra Alessandra Benedetti (SCM Group), Fabio De Ferrari (REVO Insurance), Gabriele Torri (UNIBG) e Roberto Sala (UNIBG)*" in Bergamo Città Impresa (Bergamo, IT).

Sept 28-29 2024

Participation to the festival "Scuole in Piazza" with the project "Il grande gioco dell'educazione finanziaria" (The great game of financial education) in *Bergamo Scienza 2024* (Bergamo, IT).

Jul 8 2024

Seminar "Intelligenza Artificiale: un'agenda di ricerca", speaker and organizer, co-author of the white paper presented at the event (Bergamo, IT).

AY 2023-24 – 2025-26

Orientation for prospect students (PNRR) – Teaching activity for high school students. Course "Modelli per la pianificazione finanziaria" (5 hours module)

AY 2024-25 – 2025-26

Orientation for prospect students (POT) – Teaching activity for high school students. Course "Matematica ed educazione finanziaria" (3 hours module)

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## Research and Professional Interests

Systemic risk, financial contagion models, network theory, portfolio management, credit risk, ESG investing. Number of citations (28 sept 2025): 109 (Scopus), 273 (Google Scholar). H-Index: 6 (Scopus), 9 (Google Scholar).

## Journal publications

1. D. Lauria, M. Bonomelli, G. Torri, R. Giacometti (2025), Mean-CVaR portfolio optimization under ESG disagreement. *Computational Management Science*, Online first. (WoS, Scopus, Classe A area 13/D4)
2. D. Neděla, T. Tichý, G. Torri (2024). Systemic risk detection using an entropy approach in portfolio selection strategy. *Decisions in Economics and Finance*, 1-27. (WoS, Scopus, Classe A area 13/D4)
3. G. Torri, R. Giacometti, S. Paterlini (2024), Penalized enhanced portfolio replication with asymmetric deviation measures. *Annals of Operations Research*, 332 (1), 481-531. (WoS, Scopus, Classe A area 13/D4)
4. G. Torri, R. Giacometti (2023), Financial contagion in banking networks with community structure. *Communications in Nonlinear Science and Numerical Simulation*. 117, 106924. <https://doi.org/10.1016/j.cnsns.2022.106924>. (WoS, Scopus, Classe A area 13/D4)
5. R. Giacometti, G. Torri, K. Rujirarangsarn, M. Cameletti (2023), Spatial Multivariate GARCH Models and Financial Spillovers. *Journal of Risk and Financial Management*. 16(9), 397. (WoS, Scopus)
6. G. Torri, D. Radi, H. Dvořáčková (2022), Catastrophic and systemic risk in the non-life insurance sector: A micro-structural contagion approach. *Finance Research Letters*. 47(B), 102718. <https://doi.org/10.1016/j.frl.2022.102718>. (WoS, Scopus)
7. D. Radi, G. Torri, V.P. Hoang, H. Dvořáčková (2021), A revised version of the Cathcart & El-Jahel model and its application to CDS market. *Decisions in Economics and Finance*. 44, 669–705. <https://doi.org/10.1007/s10203-021-00350-x>. (WoS, Scopus, Classe A area 13/D4)
8. G. Torri, R. Giacometti, T. Tichy (2021), Network tail risk estimation in the European banking system. *Journal of Economic Dynamics and Control*. 127(1), 104125. <https://doi.org/10.1016/j.jedc.2021.104125>. (WoS, Scopus, Classe A area 13/D4)
9. R. Giacometti, G. Torri, S. Paterlini (2021), Tail risks in large portfolio selection: penalized quantile and expected minimum deviation models. *Quantitative finance*. 21(2), 243–261. [doi.org/10.1080/14697688.2020.1820072](https://doi.org/10.1080/14697688.2020.1820072). (WoS, Scopus, Classe A area 13/D4)
10. R. Giacometti, G. Torri, G. Farina, M.E. De Giuli (2020), Risk Attribution and Interconnectedness in the EU via CDS Market Data. *Computational Management Science*. 17(4), 549–567. [doi.org/10.1007/s10287-020-00385-2](https://doi.org/10.1007/s10287-020-00385-2). (WoS, Scopus, Classe A area 13/D4)
11. G. Torri, R. Giacometti, S. Paterlini (2019), Sparse Precision Matrices for Minimum Variance Portfolios. *Computational Management Science*. 16(3), 375-400. [doi.org/10.1007/s10287-019-00344-6](https://doi.org/10.1007/s10287-019-00344-6). (WoS, Scopus, Classe A area 13/D4)
12. V. Russo, G. Torri (2019), Calibration of One-Factor and Two-Factor Hull-White Models Using Swaptions. *Computational Management Science*. 16(1-2), 275–295. [doi.org/10.1007/s10287-018-0323-z](https://doi.org/10.1007/s10287-018-0323-z). (WoS, Scopus, Classe A area 13/D4)

13. G. Torri, R. Giacometti, S. Paterlini (2018), Robust and Sparse Banking Network Estimation. *European Journal of Operational Research*. 270(1):51–65. doi.org/10.1016/j.ejor.2018.03.041. (WoS, Scopus, Classe A area 13/D4)

### Conference proceedings

1. G. Torri (2020), Minimum deviation enhanced portfolio replication with expectiles. *Managing and Modelling of Financial Risks – 10th International Scientific Conference. Proceedings*. ISBN 978-80-248-4481-7. Ostrava, Czech Republic, 217 – 223.
2. G. Torri, T. Tichy, R. Giacometti, (2018), Network conditional tail risk estimation in the European Banking System. *Managing and Modelling of Financial Risks – 9th International Scientific Conference. Proceedings*. ISBN 978-80-248-4225-7. Ostrava, Czech Republic, 550 – 557.
3. G. Torri, R. Giacometti, S. T. Rachev (2017), Option Pricing in Non-Gaussian Ornstein-Uhlenbeck Markets. *Proceeding of the 11th International Scientific Conference on Financial Management of Firms and Financial Institutions (FRPFI 2017)*. ISBN 978-80-248-4138-0. Ostrava, Czech Republic, 857 – 865. (WoS)
4. G. Torri (2017), Systemic Risk and Community Structure in the European Banking System. *35th International Conference Mathematical Methods in Economics MME 2017. Conference Proceedings*. ISBN 978-80-7435-678-0. Hradec Kralove, Czech Republic, 807 – 812. (WoS)

### Other Publications

1. F. Cerea, S. Coniglio, H. Lehmann, M. F. Murru, G. Previtali, F. L. Redi, R. Sala , G. Torri (2024). Intelligenza artificiale: un'agenda di ricerca. White paper del Tavolo Interdipartimentale sull'Intelligenza Artificiale dell'Università degli Studi di Bergamo. Università degli studi di Bergamo, ISBN: 978-88-97413-83-7. DOI: 10.13122/978-88-97413-83-7.
2. *Network Theory in Finance: Applications to Financial Contagion Analysis and Portfolio Optimization – Collana della Scuola di Alta Formazione Dottorale, Università degli studi di Bergamo* (2021). ISBN: 978-88-97413-44-8, DOI: 10.6092/978-88-97413-44-8.
3. M. Montagna, G. Torri, G. Covi (2020) – On the origin of systemic risk. *ECB Working paper series No. 2502*, European Central Bank. ISBN: 978-92-899-4448-9, DOI: 10.2866/99190.
4. G. Covi, M. Montagna, G. Torri (2019) – Economic shocks and contagion in the euro area banking sector: a new micro-structural approach. *Financial Stability Review, special feature 1*, European Central Bank. ISSN 1830-2025. Available online: <https://www.ecb.europa.eu/pub/pdf/fsr/ecb.fsr201905266e856634.en.pdf>

### Pre-prints

1. R. Giacometti, G. Torri, M. Bonomelli, D. Lauria (2025). Market-Implied Sustainability: Insights from Funds' Portfolio Holdings. <https://arxiv.org/abs/2510.20434>.
2. G. Torri, R. Giacometti (2022). Penalized Expectiles Optimal Portfolios. Available at SSRN 4018243.
3. G. Torri, R. Giacometti, G. Farina (2025). Modeling portfolio loss distribution under infectious defaults and immunization. <https://arxiv.org/abs/2503.03306>.
4. G. Torri, R. Giacometti, D. Dentcheva, S. T. Rachev, W. B. Lindquist (2024) – An Axiomatic Risk-Reward Framework for Sustainable Investing <https://arxiv.org/abs/2309.05866>.

### Conference, Workshop, and Seminar Presentations

1. EURO 2025 - Leeds (UK) – 22-25 June 2025 – Pricing of synthetic CDOs with infectious defaults and market based measures of systemic risk (G. Torri, R. Giacometti, G. Farina).
2. XXVI Workshop on Quantitative Finance - Palermo (IT) – 15 - 17 April 2025 – Pricing synthetic CDOs under infectious defaults with immunization (G. Torri, R. Giacometti, G. Farina).
3. Department, Seminar Università Cattolica del Sacro Cuore – Milan, 9 February 2024 – ESG-coherent risk measures (G. Torri, R. Giacometti, D. Dentcheva, S. T. Rachev and W. B. Lindquist).
4. CFE 2023 - Berlin (DE) – 17-19 December 2023 – Market implied ESG ratings (G. Torri, R. Giacometti, J.M. Ricci).

5. AMASES 2023 - Milan (IT) – 20-22 September 2023 – ESG-coherent risk measures – (G. Torri, R. Giacometti, D. Dentcheva, S. T. Rachev and W. B. Lindquist).
6. Bergamo-Waseda Workshop on Inference for Stochastic Process and Applications - Bergamo (IT) – 26-28 January 2023 – Risk measures for sustainable investing – (G. Torri, R. Giacometti, D. Dentcheva, S. T. Rachev and W. B. Lindquist).
7. CFE 2022 - London (UK) – Virtual conference – 17-19 December 2022 – The generalized precision matrix: Dependency in non-Gaussian settings, theory and financial applications (G. Torri, S. Paterlini, E. Taufer, R. Giacometti).
8. ECDA 2022 - Palermo (IT) – 14-16 September 2022 (accepted abstract) – Dependency in non-Gaussian settings: The generalized precision matrix and its financial applications – (G. Torri, S. Paterlini, E. Taufer, R. Giacometti and G. Terdik).
9. MMFR 2022 – Ostrava (Czech Republic) – 5-6 September 2022 (invited plenary speaker) – Network tail risk estimation in the European banking system. (G. Torri).
10. ESPOO EURO 2022 - Espoo(FIN) – 3-6 July 2022– Financial contagion and systemic risk in multilayer networks (G. Torri, D. Radi, G. Covi).
11. ECSO-CMS 2022 - Venice (IT) – 29-30 June, 1 July 2022– Dependency in non-Gaussian settings: The generalized precision matrix and its financial applications (G. Torri, S. Paterlini, E. Taufer, R. Giacometti, G. Terdik).
12. Seminar in the *Mathematical Finance, Spring 2022 Seminars* – Texas Tech University - online event – 18 March 2022 – ESG Coherent Risk and Reward Measures (G. Torri, R. Giacometti, D. Dentcheva, S. T. Rachev, W. B. Lindquist).
13. CFE 2021 - London (UK) – Virtual conference – 19 December 2021 – Dependency in non-Gaussian settings: The generalized precision matrix and its financial applications (G. Torri, S. Paterlini, E. Taufer, R. Giacometti).
14. IFORS 2021 - Seoul (ROK) (hybrid conference) – Virtual conference – 25 August 2021– Systemic risk in insurance and banking sector: a microstructural approach (G. Torri, R. Giacometti).
15. EURO 2021 - Athens (GR) (hybrid conference) – Virtual conference – 11 July 2021– Financial contagion in banking networks with community structure (G. Torri, R. Giacometti).
16. Seminar in the *DSE Lunch Seminar series, Università degli studi di Bergamo* – online event – 24 February 2021 – Enhanced portfolio replication with asymmetric deviation measures and weight penalization (G. Torri, R. Giacometti, S. Paterlini).
17. CFE 2020 - London (UK) – Virtual conference – 19-21 December 2020 – Penalized enhanced portfolio replication with asymmetric deviation measures (G. Torri, R. Giacometti, S. Paterlini).
18. CEQURA 2020 – Virtual Conference – 25 September 2020 – Tail Risks in Large Portfolio Selection: Penalized Minimum Deviation Models (G. Torri, R. Giacometti, S. Paterlini).
19. MMFR 2020 – Ostrava (Czech Republic) – 8-9 September 2020 – Minimum deviation enhanced portfolio replication with expectiles (G. Torri).
20. MEKON 2020 – Ostrava (Czech Republic) – 6 February 2020 – Financial contagion in the insurance sector a preliminary study (G. Torri).
21. NETS2019 – Milan (IT) – 14-15 November 2019 – Network tail risk estimation in the European banking system (G. Torri, R. Giacometti, T. Tichy).
22. Joint Česká národní banka/European Central Bank/European Systemic Risk Board Workshop 2019 – Prague (Czech Republic) – 03-July 2019 – Economic shocks, financial contagion and systemic risk in the euro area (G. Torri, M. Montagna, G. Covi).
23. Challenges of Europe 2019 – Bol, Island Brač (HR) – 22-24 May 2019 – On the origins of systemic risk (G. Covi, G. Torri, M. Montagna).
24. AMASES 2018 - Naples (IT) – 13-15 September 2018 – Network tail risk estimation in the European financial system (G. Torri, R. Giacometti, T. Tichy).
25. MMFR 2018 – Ostrava (Czech Republic) – 6 September 2018 – Network conditional tail risk estimation in the European banking system (G. Torri, R. Giacometti, T. Tichy).

26. CFE 2017 - London (UK) – 16-18 December 2017 – Sparse precision matrices for minimum variance portfolios (G. Torri, R. Giacometti, S. Paterlini).
27. ICFB 2017 - Ostrava (CZ) – 11-12 October 2017 – Financial contagion in international banking networks: a simulation study (G. Torri, R. Giacometti).
28. MME 2017 - Ostrava (CZ) – 13-15 September 2017 – Systemic Risk and Community Structure in the European Banking System (G. Torri).
29. FRPFI 2017 - Ostrava (CZ) – 6-7 September 2017 – Option Pricing in Non-Gaussian Ornstein-Uhlenbeck Markets (G. Torri, R. Giacometti, S. T. Rachev).
30. QFRA 2017 - Corfú (GR) – 15-16 June 2017 – Precision Matrix Regularization for Minimum Variance Portfolios (G. Torri, R. Giacometti, S. Paterlini).
31. CMS 2017 - Bergamo (IT) – 30-31 May 2017 – Covariance Estimation in Minimum Variance Portfolios: Is There a Best Method? (G. Torri, R. Giacometti, S. Paterlini).
32. 2nd Brownbag Seminar, EBS University – Wiesbaden (DE) – 07 March 2017 – Capturing Systemic Risk by Robust and Sparse Network Estimation. An analysis of the European Banking System.
33. CFE 2016 - Seville (ES) – 09-11 December 2016 – Capturing systemic risk by robust and sparse network estimation (G. Torri, R. Giacometti, S. Paterlini).

## Reserch Periods Abroad and Fellowships

EBS University (Wiesbaden, Germany)

07.01.2017 – 30.04.2017

Visiting research period at the Chair of Financial Econometrics & Asset Management. Prof. Sandra Paterlini

## Organization of Seminars and Conference

1. XXVII Workshop on Quantitative Finance (Bergamo, Italy) 30.03.2026 – 01.04.2026  
Member of the Organizing Committee
2. Bergamo-Waseda Workshop on Inference for Stochastic Process and Applications (Bergamo, Italy) 26.01.2023 – 28.01.2023  
Member of the Organizing Committee
3. CFE 2022 – 16th International Conference on Computational and Financial Econometrics (London, UK) 17.12.2022 – 19.12.2022  
Member of the Scientific Committee
4. CFE 2021 – 15th International Conference on Computational and Financial Econometrics (London, UK) 18.12.2022 – 20.12.2022  
Member of the Scientific Committee and chair of the session “Network and regularization techniques for finance”
5. CMS 2017 – Computational Management Science: Pricing, Risk and Optimization in Management Science (Bergamo, Italy) 30.05.2017 – 01.05.2017  
Member of the Organizing Committee

## Grant Research Participation

- 2025 - “Progettazione Partecipativa di un Large Language Model. Sviluppo di un framework teorico e applicativo” – Seedcorn grant, University of Bergamo (Research group led by Maria Francesca Murru).
- 2023 - Member of the project GRINS - Growing Resilient, INclusive and Sustainable project (GRINS PE00000018 - CUP F83C22001720001), line 9, mission 4 - European Union - NextGenerationEU.
- 2020 - GACR 20-25660Y – Czech Science Foundation – Modeling credit risk and system risk in the insurance sector (Research group led by D. Radi).
- 2016 - GA16-09541S – Czech Science Foundation – Robust numerical schemes for pricing of selected options under various market conditions (Research group led by T. Tichy).

## Peer review activity

Reviewer for the *Journal of Banking & Finance*, *Quantitative Finance*, *European Journal of Operational Research*, *Scientific Reports*, *Computational Management Science*, *Journal of Empirical Finance*, *Journal of Economic Dynamics and Control*, *International Journal of Central Banking*, *Applied Economics Letters*, *Financial Innovation*, *Communications in Nonlinear Science and Numerical Simulation*, *Mathematics*, *Quarterly Review of Economics and Finance*, *Information Sciences*, *Czech Journal of Economics and Finance*, *International Journal of Finance & Economics*, *Heliyon*, *Journal of Risk and Financial Management*.

## Research awards

MME 2017 – Hradec Kralove, Czech Republic – 13-15 September 2017 – 1<sup>st</sup> price at the PhD student competition for best paper.

## Other

- Member of AMASES (Associazione per la Matematica Applicata alle Scienze Economiche e Sociali) since 2016.
- Member of EMS (European Mathematical Society) since 2022.

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## Skills

**Languages:** Italian (*mother tongue*), English (*fluent*), Spanish (*basic*).

**Computer skills:** Programming: *Matlab* and *R* (advanced). *Python* and *SQL* (intermediate), *VBA* (basic). Basic knowledge of econometric software *STATA*, *OxMetrics PcGive* and *G@rch*. Extensive knowledge of the most common productivity software (*Microsoft Office*, *LibreOffice*),  $\text{\LaTeX}$ , graphical design software (*Adobe CC*, *Gimp*, *Inkscape*), data visualization software (*Tableau*, *Gephi*, *Cytoscape*).

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Io sottoscritto, Gabriele Torri, ai sensi degli art.46 e 47 DPR 445/2000, consapevole delle sanzioni penali previste dall'art.76 del DPR 445/2000 e successive modificazioni ed integrazioni per le ipotesi di falsità in atti e dichiarazioni mendaci, dichiaro sotto mia propria responsabilità la veridicità di tutto quanto dichiarato. Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679).

December 17, 2025