Matteo Maria Pelagatti

Curriculum Vitae

Academic positions

01/10/23 – 30/09/26	Vice Director of the Department of Economics, Management and Statistics, University of Milano-Bicocca.
01/01/19 – 30/09/22	Director of the Department of Economics, Management and Statistics, University of Milano-Bicocca.
since 01/11/17	Full professor of Economic Statistics at the Department of Economics, Management and Statistics, University of Milano-Bicocca.
2014-2017	Associate professor of Economic Statistics at the Department of Economics, Management and Statistics, University of Milano-Bicocca.
2002-2014	Assistant professor at the Department of Statistics, University of Milano-Bicocca.

Education

1998-2002	PhD in Statistics, University of Milan.
2000-2001	Guest doctoral student, Humboldt Universität zu Berlin (supervisor Prof. Helmut Lütkepohl).
1997	MSc in Political Sciences with specialization in Statistics, University of Milan, grade 110/110.
1991	Italian Scientific High School degree, Liceo A. Volta, Milano.
1990	U.S. High School degree, Box Elder High, Brigham City, Utah, USA, (as exchange student).

Academic appointments

2023-2027	President of the Joint Commission Teachers-Students at Department of Economics, Management and Statistics, University of Milano-Bicocca
2023-2027	Member of the Scientific Committee of the Department of Excellence project, Department of Economics, Management and Statistics, University of Milano-Bicocca
2023-2026	Vice-director of the Department of Economics, Management and Statistics, University of Milano-Bicocca
2023-today	Member of the Research Committee of the University of Milano-Bicocca
2019-2022	Head of the Department of Excellence project for of Department of Economics, Management and Statistics, University of Milano-Bicocca

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2019-2023 Director of the Department of Economics, Management and Statistics, University of Milano-Bicocca

2020-today International ranking working group member of the University of Milano-Bicocca

2018-2019 Internationalization referent for the MSc in Data Science, University of Milano-Bicocca

2016-2017 Member of the working group that projected and implemented the MSc in Data Science of the University of Milano-Bicocca

2015-2018 Member of the working group that projected the new portal of the University of Milano-Bicocca

2013-2019 Member of the Research Committee of the University of Milano-Bicocca

2013-2019 Member of the Research Exploitation Committee of the University of Milano-Bicocca

2003-2009 Member of the Board of Directors of the University of Milano-Bicocca.

Non-academic work experience

2023-2024 Project for Unieuro to optimize their advertisement investments

2012-2023 Project for Pirelli to implement a predictive maintenance system in their tyre plants

2020-2021 Project for CTC to implement a credit scoring system based on transactional data

since 2018 Co-founder of the start-up SeaFrog S.r.l. born from the academic research project Pokermapper

since 2000 Consulting and training for numerous businesses and agencies (Aeroporti di Roma, Assolombarda, Astrazeneca, Audible.de, Banca d'Italia, Ceccarelli, Enel, Engie, E.On, Etnoteam, H3G, INAIL, Nielsen, Publitalia '80, Software Company, ...)

1998-2018 Trainer for the SAS Institute Italia

1998-2015 Trainer for SPSS Italia

2000 Training for Pfizer, Berlin, related to MCMC methods for biomedical applicatoins. The main trainer was Prof. Mauro Gasparini

1995-1996 Ecomar S.r.l., Spectral analyses of the waves coming into the Venice Lagoon necessary for the Moses project

Languages

Italian mother tongue

English Spoken: C2; Written: C2

German Spoken: B2; Written: B1

Academic teaching

At the University of Milano-Bicocca

Present *Streaming Data Management and Time Series Analysis* (6 ECTS, MSc), *Computational Finance and Financial Econometrics* (6 ECTS, MSc), *Economic Statistics* (6 ECTS, MSc).

Past BSc: *Economic Time Series Analysis I* and *II*, *Economic Time Series Analysis*, *Simulation Methods*, *Multivariate Statistics Exercises*, *Statistics for Finance*.

MSc: *Time Series Lab*, *Introduction to Time Series Lab*, *Statistics for Finance*, *Data Science Lab*, *Streaming Data Management and Time Series Analysis*, *Lab Data Challenge*.

PhD in Statistics and Mathematical Finance: *Asymptotic Statistics*.

PhD in Economics: *State Space Methods in Time Series*.

PhD in Statistics: *Time Series Analysis*.

At other universities

Catholic University of Piacenza: *Research Methods* (MSc)

University of Bergamo: *Statistics for Finance* (BSc)

Bocconi University, Milan – Master MEc: *Econometrics III exercises*

Research

Main topics

Time series analysis; robust statistics; electricity markets; quantitative finance; business cycle; non-parametric methods; health statistics; price indexes; labour market.

Financed research projects

2023-2027 I coordinated the writing of the project and I am member of the steering committee for the *Department fo Excellence 2023-2027*

2023-today Director of the Data Science Lab (https://datalab.unimib.it/)

2023-2025 Responsible for task 6.4 *Derived Forecasts: households, care needs, labour force participation* of the WP *A novel data analytics system on ageing in Italy (Age-it)*, Spoke 1 of the PNRR project *Age-it*.

2022-2023 Member of the project *Data Mart on Recidivism* (CINI/Italian Ministry of Justice).

2022-2023 Member of the Agrimonia project, Cariplo Foundation (https://agrimonia.net/).

2019-2022 Coordinator of the project *Department of Excellence 2018-2022* and, within it, founder of the Data Science Lab.

2014-2015 Svenska Spell Research Council grant for the project *PokerMap*.

2008-2010 PRIN 2007 (PRIN are national interest project financed by the Italian Ministry of University): member of the team *The architecture of European Electricity Markets: efficiency, integration, and mark-ups*.

2006-2008 PRIN 2005: local P.I. *Index numbers in Time and Space: theoretical aspects and application to Italian cities*.

2007-2008 P.I. *A synthetic indicator of the economic activity of the Province of Milan* in collaboration and financed by the Centro Studi Assolombarda.

2003-2005 PRIN 2003: *Methods and tools for the analysis the economic territorial evolution from a structural dynamics approach.*

Publications

Journals in the class-A list for the Economic Statistics field (13/D2, ASN website link)

2024 Pelagatti, M., Sbrana, G. "Estimating correlations among elliptically distributed random variables under any form of heteroskedasticity" *Quantitative Finance*, DOI: 10.1080/14697688.2023.2278502.

2023 Gianfreda, A., Maranzano P., Parisio L., Pelagatti, M. "Testing for integration and cointegration when time series are observed with noise " *Economic Modelling* 125, 106352, DOI: 10.1016/j.econmod.2023.106352

2023 Sbrana G., Pelagatti M. "Optimal hierarchical EWMA forecasting" *International Journal of Forecasting* online first, DOI: 10.1016/j.ijforecast.2022.12.008.

2022 Golia S., Grossi L., Pelagatti M. "Machine Learning Models and Intra-Daily Market Information for the Prediction of Italian Electricity Prices" 5, 81-101.

2022 Bonini M., Monti G.S., Pelagatti M.M., Ceriotti V., Re E.E., Bramè B., Bottero P., Tosi A., Vaghi A., Martelli A., Traina G.M., Rivolta L., Rivolta F., Ortolani C.M. "Ragweed pollen concentration predicts seasonal rhino-conjunctivitis and asthma severity in patients allergic to ragweed" *Scientific Reports* 12, 15921.

2021 Pelagatti M., Maranzano P. "Assessing the effectiveness of the Italian risk-zones policy during the second wave of COVID-19" *Health Policy* 125(9), 1188–1199. DOI:10.1016/j.healthpol.2021.07.011

2020 Colombo E., Pelagatti M. "Statistical learning and exchange rate forecasting" *International Journal of Forecasting* 36(4), 1260-1289. DOI:10.1016/j.ijforecast.2019.12.007

2019 Gianfreda A., Parisio L., Pelagatti M. "The RES-Induced Switching Effect Across Fossil Fuels: An Analysis of Day-Ahead and Balancing Prices", *The Energy Journal* 40 (S.I. The New Era of Energy Transition).

2018 Lisi F., Pelagatti M. "Component estimation for electricity market data: Deterministic or stochastic?", *Energy Economics* 74, 13–37.

2018 Fattore M., Pelagatti M., Vittadini G. "A least squares approach to latent variables extraction in formative–reflective models", *Computational Statistics and Data Analysis* 120, 84–97.

2016 Gianfreda A., Parisio L., Pelagatti M. "The impact of RES in the Italian day-ahead and balancing markets", *The Energy Journal* 37(SI2), 161–184.

2016 Gianfreda A., Parisio L., Pelagatti M. "Revisiting long-run relations in power markets with high RES penetration", *Energy Policy* 94, 432–445.

2016 Bosco B., Parisio L., Pelagatti M. “Price coordination in vertically integrated electricity markets: Theory and empirical evidence”, *The Energy Journal*, 37(1), 181–194.

2015 Pelagatti M., Colombo E. “On the empirical failure of purchasing power tests”. *Journal of Applied Econometrics*, 30(6), 904–923.

2015 Della Torre E., Pelagatti M., Solari L. “Internal and external equity in compensation systems and firm-level absenteeism: the role of explained inequalities”. *Human Relations* 68(3), 409–440.

2014 Bongini P., Nieri L., Pelagatti M. “The importance of being systemically important financial institutions”. *Journal of Banking & Finance* 50, 562–574.

2013 Pelagatti M., Sen P.K. “Rank tests for short memory stationarity”. *Journal of Econometrics* 172(1), 90–105.

2013 Bosco B., Parisio L., Pelagatti M. “Price-capping in partially monopolistic electricity markets with an application to Italy”. *Energy Policy* 54, 257–266.

2012 Bosco B., Parisio L., Pelagatti M. “Strategic bidding in vertically integrated power markets with an application to the Italian electricity auctions. *Energy Economics* 34(6), 2046–2057.

2011 Pelagatti M. “State space methods in Ox/SsfPack ”. *Journal of Statistical Software* 41(3), 1–25.

2010 Bosco B., Parisio L., Pelagatti M. “Long-run relations in European electricity prices”. *Journal of Applied Econometrics* 25(5), 805–832.

2007 con molti altri autori. “ASSET (Age/Sex Standardised Estimates of Treatment): a research model to improve the governance of prescribing funds in Italy”. *PLoS ONE* 2(7).

Other international journals with blind review process

2023 Maranzano P., Pelagatti M. “Spatiotemporal Event Studies for Environmental Data Under Cross-Sectional Dependence : An Application to Air Quality Assessment in Lombardy” *Journal of Agricultural, Biological and Environmental Statistics*, DOI: 10.1007/s13253-023-00564-z

2022 Golia S., Grossi L., Pelagatti M. “Machine Learning Models and Intra-Daily Market Information for the Prediction of Italian Electricity Prices” *Forecasting*, 5, 81–101

2021 Pelagatti M., Maranzano P. “Nonparametric tests for event studies under cross-sectional dependence” *Quarterly Journal of Finance and Accounting*, 59(1&2).

2020 Maranzano P., Fassò A., Pelagatti M., Mudelsee M. “Statistical Modeling of the Early-Stage Impact of a New Traffic Policy in Milan, Italy” *International Journal of Environmental Research Public Health* 17(3).

2019 Gianfreda A., Parisio L., Pelagatti M. “The RES-Induced Switching Effect Across Fossil Fuels: An Analysis of Day-Ahead and Balancing Prices” *Energy Journal* 40(SI1).

2019 Parisio L,. Pelagatti M. "Market coupling between electricity markets: theory and empirical evidence for the Italian–Slovenian interconnection". *Economia Politica* 36, 527-548.

2018 Gianfreda A., Parisio L., Pelagatti M. "A Review of Balancing Costs in Italy before and after RES introduction". *Renewable & Sustainable Energy Reviews* 91, 549–563.

2018 Schiavella M., Pelagatti M., Westin J., Lepore G., Cherubini P. "Profiling Online Poker Players: Are Executive Functions Correlated with Poker Ability and Problem Gambling?", *Journal of Gambling Studies* 34(3), pp 823–851.

2017 Bongini P., Patarnello A., Pelagatti M., Rossolini M. "Keeping Funding Costs under Control: Evidence from Bank Bond Issues", *International Journal of Business and Social Science* 8(5), 135–146.

2017 Bongini P., Nieri L., Pelagatti M., Piccini A. (2017) "Curbing systemic risk in the insurance sector: A mission impossible?", *The British Accounting Review* 49(2), 256–273.

2012 Fattore M., Pelagatti M., Vittadini G. "Inconsistencies of the PLS-PM approach to structural equation models with formative-reflective schemes". *Electronic Journal of Applied Statistical Analysis* 5(3), 333–338.

2010 Pelagatti M., Negri V. "The Industrial Cycle of Milan as an Accurate Leading Indicator for the Italian Business Cycle". *Journal of Business Cycle Measurement and Analysis* 2010(2), article 2.

2009 Pelagatti M. "Modelling good and bad volatility". *Studies in Nonlinear Dynamics and Econometrics* 13(1), article 2.

2008 Mariani P., Pelagatti M., Hahn A., Alpini D. "Epidemiology of paroxysmal positioning vertigo: correlation with seasons, climate, and pollution". *International Tinnitus Journal* 14(2), 168–174.

2008 con molti altri autori. "Effect of age and sex related therapeutic needs on general practices' prescribing cost. The ASSET (Age/Sex Standardised Estimates of Treatment) research model". *PharmacoEconomics - Italian Research Articles* 10(2), 89–98.

2007 con B. Bosco e L. Parisio. "Deregulated Wholesale Electricity Prices in Italy". *International Advances in Economic Research* 13(4), 415–432.

2006 Pelagatti M., Fuà D., Galliani G., Brugnoli A., Condemi V. "Statistical investigation on the relation between car accidents and warm katabatic winds". *Il Nuovo Cimento C* 29(2), 229–235.

Monographs

2015 Pelagatti M. *Time Series Modelling with Unobserved Components*, Chapman & Hall/CRC.

2006 Mariani P., Pelagatti M. (editors) *Metodologie e strumenti per l'analisi dell'evoluzione economica territoriale*. CUSL.

2004 Pelagatti M. (editor) *Studi in ricordo di Marco Martini*. Giuffré.

Other publications

2016 Lisi F., Pelagatti M. "Component estimation for electricity market data: Deterministic or stochastic?" in *Proceedings - International Conference on Modern Electric Power Systems, MEPS 2015*.

2016 Gianfreda A., Parisio L., Pelagatti M. "Italian Wholesale Electricity Market: RES Effects Across Day-ahead and Balancing Markets" in *Proceedings - International Conference on Modern Electric Power Systems, MEPS 2015*.

2015 Bongini P., Paternello A., Pelagatti M., Rossolini M. "How difficult is it to raise money in turbulent times?" in *Lending, Investments and the Financial Crisis*, edited by E. Beccalli, F. Poli, 1–21, Palgrave MacMillan.

2014 Parisio L., Pelagatti M. "Market coupling between electricity markets: Theory and empirical evidence for the Italian-Slovenian interconnection " in *Proceedings of the 11th International Conference on the European Energy Market*.

2014 Pelagatti M., Parisio L. "First results on the Italian-Slovenian electricity market coupling" in *47th Scientific Meeting of the Italian Statistical Society Proceedings*.

2013 Bosco B., Parisio B., Pelagatti M. "Optimal pricing behavior of vertically integrated utilities: Theory and evidence from the Italian electricity wholesale market" in *Proceedings of the 10th International Conference on the European Energy Market*.

2012 Pelagatti M. "Supply Function Prediction in Electricity Auctions" in *Complex Models and Computational Methods in Statistics* edited by M. Grigoletto, F. Lisi, S. Petrone, 203–213. Springer-Verlag.

2012 Bosco B., Parisio L., Pelagatti M. "Price capping in partially monopolistic electricity markets" in *Proceedings of the 9th International Conference on the European Energy Market*.

2012 Fattore M., Pelagatti M., Vittadini G. "Globally-optimized latent variable extraction in formative-reflective models" Quaderni di Statistica 14, 101–104.

2010 Pelagatti M. "Previsioni delle dinamiche dei contratti di lavoro in Lombardia"in *Dinamicità e Sicurezza. I Dati del Lavoro che Cambia* edited by Mario Mezzanzanica, 152–174. Guerini e Associati.

2010 Pelagatti M. "Price indexes across space and time and the stochastic properties of prices" in *Price Index Numbers in Time and Space* edited by G. Ferrari, L. Biggeri, 97–114. Springer-Verlag.

2010 Bosco B., Parisio L., Pelagatti M. "Estimating marginal costs and market power in the Italian electricity auctions" in *Proceedings of the 7th International Conference on the European Energy Market*.

2010 Pelagatti M., Sen P.K. "A robust version of the KPSS test based on ranks" in *Società Italiana di Statistica: Atti della XLV Riunione Scientifica*.

2009 Pelagatti M., Lisi F. "Variance initialisation in GARCH estimation." in *Complex Data Modeling and Computationally Intensive Statistica Methods for Estimation and Prediction* edited by Paganoni, Sangalli, Secchi, Vantini. Maggioli Editore.

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2008 Zavanella B., Mezzanzanica M., Pelagatti M., Minotti S., Martini M. "A two-step approach for regional medium-term skill needs forecasting" in *Regional Forecasting on Labour Markets* edited by C. Knobel, B. Kriechel, A. Schmid. Rainer Hampp Verlag.

2007 Pelagatti M. "Duration dependent Markov-switching vector autoregression: Properties, Bayesian inference, software and application"in *Business Fluctuations and Cycles* edited by T. Nagakawa, 43–66. Nova Science Publishers, Hauppauge NY.

2006 Pelagatti M. "Forecasting good volatility and bad volatility" in *Società Italiana di Statistica: Atti della riunione intermedia 2007 su Rischio e Previsione*.

2006 Pelagatti M., Perricone C., Fattore M. "La misura dell'inflazione spaziale in Italia usando dati raccolti per altri fini" in *Metodologie e Strumenti per l'Analisi dell'Evoluzione Economica Territoriale* edited by P. Mariani, M. Pelagatti, 133–154. CUSL, Milano.

2006 Pelagatti M. "Estimation and Optimal Filtering for a Common Stochastic Cycle Shifted in Continuous Time" in *Società Italiana di Statistica: Atti della XLIII Riunione Scientifica*.

2004 Pelagatti M. "Ciclo macroeconomico e cicli economici settoriali" in *Studi in Ricordo di Marco Martini* edited by M. Pelagatti, 83–104. Giuffré, Milano.

2002 Pelagatti M. "Duration-Dependent Markov-Switching VAR Models with Applications to the Business Cycle Analysis"in *Società Italiana di Statistica: Atti della XLI Riunione Scientifica*.

Editorial activities

Associate editor for Statistical Methods & Applications (2019-2023).

Referee for Advances in Data Analysis and Classification · Applied Economics · Computational Statistics and Data Analysis · Chapman & Hall/CRC Press · Econometrics Journal · Econometric Reviews · Economic Modelling · Economics e-journal · Economic Notes · Electronic Journal of Applied Statistical Analysis · Empirical Economics · Energy Economics · Energy Journal · Energy Strategy Reviews · Entropy · Environmetrics · Forecasting · Health Policy · Heliyon · IEEE Transactions on Power Systems · International Journal of Forecasting · International Journal of Theoretical and Applied Finance · International Review of Economics and Finance · Journal of Business and Economic Statistics · Journal of Business Cycle Measurement and Analysis · Journal of Gambling Studies · Journal of Risk and Financial Management · Journal of Statistical Computation and Simulation · Journal of the American Statistical Association · Macroeconomic Dynamics · Mathematics and Computers in Simulation · Macroeconomic Dynamics · Metron · Renewable and Sustainable Energy Reviews · Review of Derivative Research · Social Indicators Research · South African Journal of Economics · Statistical Analysis and Data Mining · Statistical Methods & Applications · Utilities Policy.

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