

# Paolo Maranzano


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## Personal Information


Date of Birth April 15th, 1993  
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## Presentation

Since January 2022, I'm Junior Assistant Professor of Economic Statistics at the Department of Economics, Management and Statistics of the University of Milano-Bicocca (UniMiB), Italy. Moreover, since February 2022, I'm Associate Researcher at Fondazione Eni Enrico Mattei (FEEM) in Milan, Italy. In 2021 I was post-doctoral Research Fellow in Environmental Statistics at the Department of Economics of the University of Bergamo (UniBg), Italy. Since December 2021, I teach Introduction to Time Series Analysis at the M.Sc. in Statistics & Economics at UniMiB.

In 2021 I earned a Ph.D. in Statistics at UniMiB, with a dissertation on time series models for air quality monitoring and assessment of environmental protection policies in Lombardy, Italy. In 2017 I graduated in Statistics & Economics (M.Sc.) at UniMiB and in 2015 I graduated in Economics (B.Sc.) at UniBg.

My research activities and interests focus on environmetrics, statistics and econometrics applied to environmental, energy and socio-economic fields. In particular, I do research on temporal, spatiotemporal and geostatistical modeling of air quality and airborne pollutants, statistical learning and model selection for geostatistical and time series models, on the analysis of policy interventions for environmental protection, and on macroeconometrics applied to environment and sustainable development issues.

I have been visiting researcher for several months at international research institutions, such as the Harvard University (USA), the University of Glasgow (Scotland, UK), the Leibniz University of Hannover (Germany), and the University of Aveiro (Portugal). Eventually, since 2018, I have collaborated as a researcher/data analyst on several projects in partnership with Italian research institutes, such as Associazione Economia & Sostenibilità, CGIL Lombardia and Istituto per la Ricerca Sociale (IRS).

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## Current academic and research positions

Jan. 2022 - **Junior Assistant Professor (RTD-A) of Economic Statistics (SECS-S/03)**

Present *University of Milano-Bicocca, Milano, Italy*



*Department of Economics, Management and Statistics (DEMS)*

Project: *Geostatistical and time series models for air quality assessment in critical areas of Europe*. 36-months project in collaboration with Fondazione Eni Enrico Mattei (FEEM), Milan, Italy.

Feb. 2022 - **Associate Researcher**

Present *Fondazione Eni Enrico Mattei (FEEM), Milano, Italy*



Project: *Econometrics of the Energy Transition (EET)*. Three-years project in collaboration with Fondazione Eni Enrico Mattei (FEEM), Milan, Italy.

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## Past academic positions

2021 **Post-doctoral research fellow in Environmental Statistics (SECS-S/02)**



*University of Bergamo, Dalmine, Italy*

*Department of Economics (DSE)*

*Department of Management, Information and Production Engineering (DIGIP)*

Project: *The impact of COVID-19 lockdown restriction on air quality in Lombardy, Italy*

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## Education

2017–2021 **Ph.D. in Statistics, XXXIII cycle**



*University of Milano-Bicocca, Milano, Italy*

*Department of Statistics and Quantitative Methods (DISMEQ)*

Final grade: Excellent - Defense: 29th April 2021

Supervisors: prof. Matteo Pelagatti & prof. Alessandro Fassò

Thesis: *Essays on air quality statistics: time series methods for evaluating environmental protection policies in Lombardy, Italy*.

2015–2017 **M.Sc. Degree in Statistics & Economics (LM-82)**



*University of Milano-Bicocca, Milano, Italy*

*Department of Economics, Management and Statistics (DEMS)*

Final grade: 110/110 - Defense: 27th October 2017

Supervisors: prof. Matteo Manera, prof. Biancamaria Zavanella & prof. João Bento

Thesis: *The EKC Hypothesis: specification, estimation and testing*.

2012–2015 **B.Sc. Degree in Economics (L-33)**



*University of Bergamo, Bergamo, Italy*

*Department of Economics, Management and Quantitative Methods (DSAEMQ)*

Final grade: 110/110 cum laude - Defense: 28th October 2015

Supervisors: prof. Lucio Bertoli Barsotti

Thesis: *A model for the estimation of the Hirsch's Index H: an empirical analysis*.

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## Research activities, projects and groups

Nov.2022– Present **AgroGeoStat – Analisi Geostatistica della Sostenibilità Agricola**  
*Principal Investigator (UniMiB)*



24-months research project: develop geostatistical and econometric methodologies to study, through the RICA-FADN Database, the spatio-temporal dynamics of agricultural production processes, agricultural sustainability, and the effect of environmental and rural development policies. Partner: Consiglio per la Ricerca in Agricoltura e l'analisi dell'Economia Agraria - Centro Politiche e Bioeconomia (CREA-PB)

Feb.2022– Present **Econometrics of the Energy Transition**



*Researcher on spatial analysis of heterogeneity in COVID-19 spread in Lombardy*  
Research program of FEEM aiming at modeling and forecasting of the main energy variables, their interactions with climate variables and financial indicators, as well as with commodity markets and macroeconomic aggregates. Coordinator: Matteo Manera.

Nov.2021– April 2023 **AgriImOnIA – Agriculture Impact On Italian Air**



*Researcher and Co-Leader of data collection task (Air Quality for Lombardy)*  
18-months research project promoted and supported/funded by Fondazione Cariplo within the framework of *Data Science for science and society*. Partners: University of Bergamo, University of Milano-Bicocca, Leibniz University of Hannover, and University of Torino.

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## Professional research experience

9/2022 **Invited lecturer and statistical expert**



*Agenzia Regionale per la Protezione dell'Ambiente (ARPA) Lombardia, Milan, Italy*  
Invited lecturer for the course 'Statistical Analysis of Air Quality Data with R software' (20 hours).

2020–Present **Member and researcher in data analysis, econometrics and statistics**



*Associazione Economia e Sostenibilità (ASSESTA), Milan, Italy*

- o "The Green New Deal challenge for Italy" project
- o "A synoptic picture of the economy and labor in Lombardy: macroeconomics, microeconomics, finance, climate targets, and trade unions settlement" project

2020–2022 **External researcher in data analysis, econometrics and statistics**



*CGIL Lombardia, Milan, Italy*

- o "Immigrazione, Demografia e Politica Economica" project: building and analyzing a panel database for evaluating the impact of migration on economic development in Italy and Lombardy.

02/2022 **External researcher in data analysis, econometrics and statistics**

5-12/2018 *Istituto per la Ricerca Sociale (IRS), Milan, Italy*



- o "Migrare - Impacts of refugee flows to territorial development in Europe" project: ESPON project concerning the evaluation of impact on socio-demographic and economic context within European Union, EFTA countries, Turkey and Balkans.

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## Visiting periods and international research

05/2023 **Visiting Research Fellow at University of Glasgow, UK**



*School of Mathematics and Statistics*

Periods: May 2023 (2 weeks)

Supervisor: prof. Claire Miller

Research topics: Development of an algorithm for estimating the variance of Heteroskedastic Gaussian Processes in the presence of missing data with application to radiosonde launches for atmospheric monitoring.

10-11/2022 **Visiting Scholar at Harvard University, Cambridge, US**



**HARVARD**  
Faculty of Arts and Sciences  
DEPARTMENT OF STATISTICS

*Department of Statistics, Faculty of Arts and Science*

Periods: October-November 2022 (5 weeks)

Supervisor: prof. Kelly McConville

Research topics: implementation of small area and model-assisted sampling models for estimating the relationship between agriculture, livestock and air quality in Lombardy.

5/2022 **Visiting Research Fellow at Leibniz University of Hannover LUH, Germany**

6-8/2021 *Institute of Cartography and Geoinformatics (IKG)*



Periods: May 2022 (3 weeks), June-July 2021 (2 months)

Supervisor: prof. Philipp Otto

Research topics

- Penalised likelihood approaches and feature selection for functional and multivariate geostatistical models
- Application to air quality data and policy/event impact evaluation

1-2/2019 **Visiting Research Fellow at University of Aveiro UAA, Aveiro, Portugal**

7-8/2017 *Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT)*



universidade  
de aveiro

Periods: January-February 2019 (2 months), July-August 2017 (2 months)

Supervisor: prof. João Paulo Bento

Research topics

- The role of education and income inequality on the Environmental Kuznets Curve
- The role of MNEs, foreign direct investments and income inequality on the EKC.

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## Complementary education

Sept. 2021 **International School on Frontiers of Energy Econometrics**



*Lake Como School of Advanced Studies, Como, Italy*

Intensive program (one week) on advanced econometrics tools for energy econometrics (VAR, SVAR, Oil and petrol shocks, Energy demand, Uncertainty and Electricity markets)

October 2020 **International School on Spatial analysis and policy evaluation**



*Fondazione ENI Enrico Mattei (FEEM), Milano, Italy*

Intensive program (two weeks) on spatial econometrics applied to impact policy evaluation - Prof. Roberto Basile & prof. Marusca De Castris

August 2019 **Course on Econometric Climate Time Series analysis**



*Climate Risk Analysis (CRA), Heckenbeck, Germany*

Intensive program (one week) on Econometric and Time Series analysis of environmental data using classic inference, asymptotic theory and bootstrap - Prof. Manfred Mudelsee

July 2019

**International School on Macroeconometrics**

*Barcelona Graduate School of Economics (BGSE), Barcelona, Spain*

Intensive program (two weeks) on Macroeconometrics and Time Series analysis.



June 2019

**International School on Principles and ideas in Time Series analysis**

*Italian Econometrics Society (SIDE), Bertinoro, Italy*

Intensive program (one week) on Time Series analysis with applications



May 2018

**International School on Clustering, analysis and visualization of complex data**

*Italian Statistical Society (SIS), University of Catania, Italy*

Intensive program (one week) on advanced clustering techniques and research about frontier topics about machine learning related to clustering and data visualization in a multivariate context



Sept. 2017

**International School on Green Energy Management**

*Eurasian National University, Astana, Kazakhstan*

Intensive program (two weeks) on renewable energy management and scenario, environmental economics, energy economics.



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## Teaching and academic experience



**Teaching at the University of Milano-Bicocca**

**Department of Economics, Management and Statistics (DEMS)**

○ Ph.D. Courses

*Spatio-temporal dependence and Cross-validation (8 hours)*

Ph.D. program in Economics, Statistics and Data Science

A.Y. 2023/24

○ M.Sc. Courses

*Introduction to Time Series Analysis*

6 ECTS/CFU (42 hours), M.Sc. in Statistics & Economics, CLAMSES

A.Y. 2021/22, 2022/23, 2023/24



**Supervision at the University of Milano-Bicocca**

**Department of Economics, Management and Statistics (DEMS)**

○ Scientific supervisor of research scholarships

*Project: "Sviluppo di un software per il trattamento di dati di qualità dell'aria europei - Progetto Dipartimento di Eccellenza 2023-2027" (July to October 2023)*

*Researcher: Agostino Tassan Mazzocco*

○ Thesis supervisor (M.Sc. in Statistics & Economics, CLAMSES) of 8 students (January 2022 to March 2024)

○ Thesis co-supervisor (M.Sc. in Statistics & Economics, CLAMSES) of 3 students (January 2022 to March 2024)



**University of Bergamo**

**School of Engineering**

○ Ph.D. Course

*Statistical Inference (10 hours)*

Ph.D. program in Engineering and Applied Science

A.Y. 2023/24

## Teaching at the Universidade de Aveiro

### Dept. of Economics, Management, Industrial Engineering and Tourism (DEGEIT)

- Erasmus+ Professor (with EU scholarship)  
*Introduction to spatial data science for economics and social science*  
Ph.D. Course (8 hours)  
A.Y. 2023/24 (7th to 13th April 2024)
- Erasmus+ Professor (with EU scholarship)  
*Time Series Analysis using UCM and State Space models*  
Ph.D. Course (8 hours)  
A.Y. 2022/23 (29th May to 2nd June 2023)

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## Software and programming skills



**R:** Professional programming knowledge, integration with C++ (Rcpp)

- **ARPALData: Retrieving and Analyzing Air Quality and Weather Data from ARPA Lombardia** with *Andrea Algieri (ARPA Lombardia)*  
The software allows the user to download, manage and analyse (descriptive statistics, representation and mapping) air quality and weather data for Lombardy using ARPA Lombardia and Regione Lombardia open database. Release 1.5.2 available on CRAN R repository since March 2024)
- **EEAaq: Handle Air Quality Data from the European Environmental Agency Data Portal** with *Agostino Tassan Mazzocco & Riccardo Borgoni (UniMiB)* This software downloads and manages air quality data at the European level from the European Environmental Agency (EEA) dataflows. The package allows dynamically mapping the stations, summarising and time aggregating the measurements and building spatial interpolation maps. Release 0.0.3 available on CRAN R repository since August 2023)



**Stata:** Professional programming knowledge



**Matlab:** Professional programming knowledge

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## Languages

Italian **Mothertongue**

English **Writing:** C2



**Oral comprehension:** C2

**Reading:** C2

**Speaking:** C2

Portuguese **Writing:** A2



**Oral comprehension:** B1

**Reading:** A2

**Speaking:** A2

*A2 certification in 2019 (University of Aveiro, Portugal)*

## Scientific research output

### Bibliometric indices

H-Index: 10 (April 2024 - Google Scholar)

Citations: 170 (April 2024 - Google Scholar)

### Peer-reviewed scientific publications

#### Journal articles

1. Maranzano, P. & Algieri, A. (2024) **ARPALData: an R package for retrieving, managing and analysing air quality and weather data for Lombardy, Italy**. *Environmental and Ecological Statistics*, 10.1007/s10651-024-00599-6.
2. Otto, P., Fusta Moro, A., Rodeschini, J., Shaboviq, Q., Ignaccolo, R., Golini, N., Cameletti, M., Maranzano, P., Finazzi, F., Ignaccolo, R. & Fassò, A. (2024) **Spatiotemporal modelling of PM2.5 concentrations in Lombardy (Italy) – A comparative study**. *Environmental and Ecological Statistics*, 10.1007/s10651-023-00589-0.
3. Carra, A., Chiodini, M.C., & Maranzano, P. (2023) **Italy is ageing, who will take care of it?**. *Rivista Italiana di Economia, Demografia e Statistica*, Vol. 77 Issue 2.
4. Borgoni, R., Denova, M., Maranzano, P. & Morelli, C. (2023) **Assessing geographical differences of the COVID-19 impact on fuel consumption: the case of Italy**. *Letters in Spatial and Resource Sciences*, 10.1007/s12076-023-00361-9.
5. Maranzano, P. & Romano, R. (2023) **The European economic transition before, during and after the pandemic, through the war in Ukraine**. *The Forum for Social Economics*, 10.1080/07360932.2023.2252611.
6. Maranzano, P. & Pelagatti, M. (2023) **Spatio-temporal Event Studies for Environmental Data under Cross-Sectional Dependence: an Application to Air Quality Assessment in Lombardy**. *Journal of Agricultural, Biological and Environmental Statistics*, 10.1007/s13253-023-00564-z.
7. Gianfreda, A., Maranzano, P., Pelagatti, M. & Visconti Parisio, L. (2023) **Testing for integration and cointegration when time series are observed with noise**. *Economic Modelling*, 125, 106352, 10.1016/j.econmod.2023.106352.
8. Maranzano, P., Otto, P. & Fassò, A. (2023) **Adaptive LASSO estimation for functional hidden dynamic geostatistical models**. *Stochastic Environmental Research and Risk Assessment*, 10.1007/s00477-023-02466-5.
9. Fassò, A., Rodeschini, J., Fusta Moro, A., Shaboviq, Q., Maranzano, P., Cameletti, M., Finazzi, F., Golini, N., Ignaccolo, R. & Otto, P. (2023) **Agrimonia: a dataset on livestock, meteorology and air quality in the Lombardy region, Italy**. *Nature Scientific Data*, 10(1), 143, doi.org/10.1038/s41597-023-02034-0.
10. Cornali, N., Seminati, M., Maranzano, P. & Chiodini, P.M. (2022) **Smart mobility in Milan, Italy: a district-level spatial and cluster analysis**. *Italian Journal of Applied Statistics*, 34(3), doi.org/10.26398/IJAS.0034-013.
11. Coker, E.S., Molitor, J., Liverani, S., Martin J., Maranzano, P., Pontarollo N. & Vergalli, S. (2022) **Bayesian profile regression to study the ecologic associations of correlated environmental exposures with excess mortality risk during the first year of**

- the COVID-19 epidemic in Lombardy, Italy.** *Environmental Research*, 216(1), DOI: <https://doi.org/10.1016/j.envres.2022.114484>.
12. Maranzano, P. (2022) **Air Quality in Lombardy, Italy: an Overview of the Environmental Monitoring System of ARPA Lombardia.** *Earth*, 3(1), 172-203, DOI: 10.3390/earth3010013.
  13. Maranzano, P., Bento, J.P.C. & Manera, M. (2022) **The Role of Education and Income Inequality on Environmental Quality. A Panel Data Analysis of the EKC Hypothesis on OECD Countries.** *Sustainability*, 14(3), 1622, DOI: 10.3390/su14031622.
  14. Fassò, A., Maranzano, P. & Otto, P. (2022). **Spatiotemporal variable selection and air quality impact assessment of COVID-19 lockdown.** *Spatial Statistics*, 44, DOI: 10.1016/j.spasta.2021.100549
  15. Pelagatti, M. & Maranzano, P. (2021). **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.
  16. Pelagatti, M. & Maranzano, P. (2021). **Nonparametric tests for event studies under cross-sectional dependence.** *Quarterly Journal of Accounting and Finance*, 59 (1 & 2), Winter-Spring 2021, pp. 29-66.
  17. Maranzano, P., Noera, M., & Romano, R. (2021). **The European industrial challenge and the Italian NRRP.** *PSL Quarterly Review*, 74(298). <https://doi.org/10.13133/2037-3643/17576>
  18. Maranzano, P., Ascari, R., Chiodini, P. M., & Manzi, G. (2021). **Analysis of Sustainability Propensity of Bike-Sharing Customers Using Partially Ordered Sets Methodology.** *Social Indicators Research*, 157(1), 123-138, 10.1007/s11205-020-02333-8
  19. Maranzano, P., Fassò, A., Pelagatti, M., & Mudelsee, M. (2020). **Statistical Modeling of the Early-Stage Impact of a New Traffic Policy in Milan, Italy.** *International Journal of Environmental Research and Public Health*, 17(3), 1088. DOI:10.3390/ijerph17031088
- Book chapters and short papers*
20. Maranzano, P., McConville, K., Otto, P. & Carillo, F. (2023). **A geostatistical investigation of the ammonia-livestock relationship in the Po Valley, Italy.** In *Book of Short Papers SIS 2023*, edited by Chelli, F.M., Ciommi, M., Ingrassia, S., Mariani, F. & Recchioni, M.C. Pearson, ISBN 9788891935618AAVV
  21. Maranzano, P. & Fassò, A. (2022). **The Impact of the Lockdown Restrictions on Air Quality During COVID-19 Pandemic in Lombardy, Italy.** In *Artificial Intelligence, Big Data and Data Science in Statistics: Challenges and Solutions in Environmetrics, the Natural Sciences and Technology*, edited by A. Steland & K-L. Tsui. Springer International Publishing, 343-374, DOI: 10.1007/978-3-031-07155-3\_15
  22. Maranzano, P., Ascari, R., Chiodini, P.M. & Manzi, G. (2021). **Awareness of sustainability among elderly bike-sharing users.** In *Book of Short Papers SIS 2021*, edited by Perna, C., Salvati, N. & Schirripa Spagnolo, F. Pearson, ISBN 9788891927361
  23. Bento, J. P. C., Torres, M., & Maranzano, P. (2019). **Outward US Foreign Direct Investment and Environmental Degradation.** In *Handbook of Research on Corporate*



*Restructuring and Globalization*, edited by A. C. Moreira & P. Silva, 252-268. Hershey, PA: IGI Global, 2019. <http://doi:10.4018/978-1-5225-8906-8.ch012>

### *Journal articles in Italian*

24. Maranzano, P., Variato, A.M., & Romano, R. (2022). **Politica economica ed evoluzione di struttura: una comparazione europea attraverso gli arcipelaghi settoriali.**, *Economia & Lavoro*, 2/2022, pp. 171-190, DOI: 10.7384/106079
25. Variato, A.M., Maranzano, P., & Romano, R. (2020). **Rotta Next Generation: tra narrazioni ed evidenza empirica, le sfide del possibile orizzonte della politica economica italiana.** *Moneta e Credito*, v.73, n.291, p. 207-236, oct. 2020. ISSN 2037-3651., DOI:10.13133/2037-3651\_73.291\_2

## Conferences, seminars and workshops

### Incoming events

- 2024 Scientific Program Committee member: *18th International Conference on Computational and Financial Econometrics (CFE 2024)*, King's College London, UK, 14-16 December 2024.

Organized session chair: **ESG and financial-economic sustainability** (co-chair Caterina Morelli), *18th International Conference on Computational and Financial Econometrics (CFE 2024)*, King's College London, UK, 14-16 December 2024.

Talk: **Exploring patterns and determinants of the agro carbon footprint in Northern Italy through SAE**, *Joint Statistical Meetings of the American Statistical Association (JSM 2024)*, 3-8 August 2024, Portland, OR, USA.

Discussant of topic-contributed session: **Advances in Small Area Estimation with Applications to Agricultural Establishments**, *7th International Conference on Establishment Statistics (ICES VII)*, 17-20 June 2024, Glasgow Caledonian University, Glasgow, UK.

Invited seminar: **Assessing the effectiveness of the Italian Citizenship Income on tackling poverty and inequalities: evidence from Italian municipalities**, Libera Università Carlo Cattaneo (LIUC), Castellanza, Italy, 25th March 2024.

### Organized events and sessions chair

- 2023 Organized session chair: **Econometrics and statistics for sustainable economics** (co-chair Simone Boccaletti), *17th International Conference on Computational and Financial Econometrics (CFE 2023)*, HTW Berlin - University of Applied Sciences, Berlin, Germany, 16-18 December 2023.

Local Organizing Committee member: **1st Italian Conference on Economic Statistics**, 17 February 2023, University of Milano-Bicocca, Italy

Invited session chair: **New frontiers of data sources in the Labour Market Analysis**, *1st Italian Conference on Economic Statistics*, 17 February 2023, University of Milano-Bicocca, Italy

- 2022 Organized session chair: **Spatial and Spatio-temporal statistics in urban and natural contexts**, *15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022)*, King's College London, UK, 17-19 December 2022

## Conferences, workshops and talks

- 2024 Talk: **Assessing labor market shocks in Italy using a robust Hodrick-Prescott filter with structural breaks**, *2nd Italian Conference on Economic Statistics*, 7-8 February 2024, University of Florence, Italy
- Talk: **LASSO-Based Outlier Detection and Estimation for Structural Time Series**, *4th Italian Workshop of Econometrics and Empirical Economics: "Climate and Energy Econometrics" (IWEEE 2024)*, 25-26 January 2024, Free University of Bozen-Bolzano, IT.
- 2023 Invited talk: **EAAq: an R package to handle air quality data from the European Environmental Agency data portal**, *16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023)*, HTW Berlin, University of Applied Sciences, Berlin, Germany, 16-18 December 2023.
- Poster: **Identification of fragile areas of Lombardy using geographically-informed clustering**, *Conference on Poverty and vulnerability Scenarios in the era of COVID-19: how the pandemic is affecting the wellbeing of the Italians*, Libera Università Carlo Cattaneo (LIUC), Castellanza, Italy, 27 November 2023.
- Invited talk: **ARPALData: retrieving and analyzing air quality and weather data of Lombardy (Italy)**, *Conference of the Italian research group for Environmental Statistics - GRASPA 2023*, 10-11 July 2023, University of Palermo, IT
- Invited talk: **A geostatistical investigation of the ammonia-livestock relationship in the Po Valley, Italy**, *SIS 2023 International Meeting*, 21-23 June 2023, Università Politecnica delle Marche, IT
- Talk: **A geostatistical study on the relationship between agriculture, livestock farming and ammonia emissions in Lombardy, Italy**, *8th ITALian CONference on Survey Methodology - ITACOSM2023*, 7-9 June 2023, University of Calabria, IT
- Talk: **Assessing the effects of COVID-19 on fuel consumption and CO<sub>2</sub> emissions in Italy at industry level**, *11th conference of the Italian Association of Environmental and Resources Economists (IAERE 2023)*, 23-24 February 2023, Naples, Italy
- Talk: **Storytelling the Labor market in Europe: how the degree of economic and technological specialization influence the quality of labor demand**, *1st Italian Conference on Economic Statistics*, 17 February 2023, University of Milano-Bicocca, Italy
- Attendance: *International workshop of Young Environmental Statisticians (YES 2023)*, 3rd February 2023, University of Bologna, Bologna, Italy
- 2022 Invited talk: **ARPALData: retrieving and analyzing air quality and weather data of Lombardy (Italy)**, *15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022)*, 17-19 December 2022, London, UK
- Talk: **Geostatistical Event Studies for Air Quality Assessment**, *Annual conference of the German Statistical Society (StatWoche 2022)*, 20-23 September 2022, Münster, DE
- Poster: **Spatio-Temporal Event Studies for Air Quality Assessment**, *10th International Workshop on Spatio-temporal modelling (METMA X)*, 1-3 June 2022, Lleida, Spain
- Talk: **AgriOnla: geostatistical analysis of the impact of agriculture on air quality**, *10th conference of the Italian Association of Environmental and Resources Economists (IAERE 2022)*, 21-23 April 2022, Cagliari, Italy
- Talk: **Penalized likelihood adaptive-LASSO algorithm for feature selection in functional HDGM**, *6th Conference of the Deutsche Arbeitsgemeinschaft Statistik (DAGStat 2022)*, 28 March - 1 April 2022, University of Hamburg, Germany

- Talk: **Structural change and economic archipelagos: evolution and comparison of European economic system by integrated economic archipelagos**, *5th International Associazione Studi e Ricerche Interdisciplinari sul Lavoro (ASTRIL) Conference*, 20-21 January 2022, Online talk
- 2021 Invited talk: **An adaptive-LASSO algorithm for feature selection in functional spatiotemporal models**, *14th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2021)*, 17-20 December 2021, Online talk
- Talk: **Feature selection via penalised likelihood approach in spatiotemporal models**, *Annual conference of the German Statistical Society (StatWoche 2021)*, 14-17 September 2021, Online talk
- Invited talk: **Model selection and inference in spatio-temporal models using a penalised likelihood approach**, *GRASPA 2021*, 7-9 June 2021, Online talk
- Talk: **Event Studies For air quality time series: an application to the COVID-19 lockdown in Lombardy, Italy**, *IX conference of the Italian Association of Environmental and Resources Economists (IAERE 2021)*, 22 April 2021, Online talk
- 2020 Talk: **Air quality in Lombardy during the COVID-19 breakdown**, *3rd international conference on Data Science & Social Research (DSSR 2021)*, 10 December 2020, Online talk
- Poster: **Modelli statistici per la qualità dell'aria a Milano dopo l'introduzione di Area B e COVID-19**, *IX Convegno Nazionale sul Particolato Atmosferico (PM 2020)*, 14-16 October 2020, Lecce, Italy
- Attendance: *International conference on Distributions and Inequality Measures in Economics (DIME 2020)*, 20-21 February 2020, University of Milano-Bicocca, Milano, Italy
- 2019 Talk: **The impact on air quality of a new traffic policy in Milan: preliminary results**, *New Economic & Statistical Perspectives on Urban & Territorial Themes (NESPUTT 2019)*, 21-22 November 2019, University of Milano-Bicocca, Milan, Italy
- Talk: **The impact on air quality of a new traffic policy in Milan: preliminary results**, *IV Econometric Models of Climate Change Conference (EMCC 2019)*, 29-30 August 2019, University of Milano-Bicocca, Milan, Italy
- Seminars**
- 2023 Invited seminar: **A statistical investigation of the ammonia-livestock relationship in the Po Valley**, 5th May 2023, School of Mathematics and Statistics, University of Glasgow, Scotland
- 2022 Invited seminar: **Spatio-Temporal Event Studies for Impact Assessment: An Application to the Air Quality in Lombardy**, 30 June 2022, Bicocca Applied Statistics Center (BASC), University of Milano-Bicocca, Milan, Italy
- 2021 Invited seminar: **A Penalized-Likelihood algorithm for variable selection in geostatistical models**, 29 June 2021, IKG - Leibniz University of Hannover, Hannover, Germany
- 2020 Invited seminar: **Statistical modeling of air quality in Northern Italy in 2020: new urban policies and COVID-19 lockdown**, 25 November 2020, University of Göttingen, Göttingen, Germany

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## Under review and working papers

- 2024+ Stamegna, M., Bonaiuti, C., Maranzano, P., & Pianta, M. **The economic impact of arms spending in Germany, Italy, and Spain.** *Munich Personal RePEc Archive* (MPRA Paper No. 120608)
- 2024+ Bosco, B.P., Bosco, C.F. & Maranzano, P. **Income taxation and regional growth: DID evidence from an income tax treatment in Italy.** *Research Square preprints* (<https://doi.org/10.21203/rs.3.rs-3962177/v1>)
- 2024+ Otto, P., Fassò, A. & Maranzano, P. **A review of regularised estimation methods and cross-validation in spatiotemporal statistics.** *arXiv preprints* (2402.00183).

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## Editorial activities

### Editorship

- Oct.2023 - Guest Editor (with Philipp Otto and Felicetta Carillo) of the special issue *New Perspectives in Statistics, Data Science and Econometrics for Agriculture, Land Use and Forestry* for the journal *Journal of Agricultural, Biological and Environmental Statistics*.
- Jul.2024
- Nov.2021 - Guest Editor (with Alessandro Fassò) of the special issue *Statistics and Econometrics of Environment and Climate Change* for the journal *Sustainability*.
- Jul.2023

### Peer-reviewer for international journals

Article reviewer for *Stochastic Environmental Research and Risk Assessment* (since 2023), *Social Indicator Research* (since 2020), *Environmetrics* (since 2020), *Spatial Statistics* (since 2021), *Ecological and Environmental Statistics* (since 2021), *Energies* (since 2022), *Atmosphere* (since 2020), *International Journal of Environmental Research and Public Health* (since 2020), *Applied Economics* (since 2023), *AStA Advances in Statistical Analysis* (since 2021), *Italian Journal of Applied Statistics* (since 2023).

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## Scientific affiliations and societies

*Italian Association of Environmental and resource Economists (IAERE)* (since 2021), *Italian Statistical Society (SIS)* (since 2021), *Italian Environmetricians Group (GRASPA-SIS)* (since 2022), *Italian Econometrics Society (SIDE)* (2019 and 2024), *Italian Aerosol Society (IAS)* (2022)

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## Further publications

### Research reports for projects

- 2023 CGIL Lombardia & Associazione Economia e Sostenibilità. **Economia, Finanza, Clima e Lavoro - Un quadro d'insieme della Lombardia.** ISBN: 9791281285019.
- 2021 Associazione Economia e Sostenibilità. **The Green Deal is advantageous. Benefits for the economy and employment in Italy by 2030**
- 2019 ESPON & Istituto per la Ricerca Sociale. **Migrare - Impacts of refugee flows to territorial development in Europe** ISBN: 9782919795161

Bob Mauro

Milano, April 23th 2024