

# Michela Cameletti

## Curriculum Vitæ

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University of Bergamo

Department of Economics

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### Current status

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From July 2023 *Full professor* in Statistics at University of Bergamo, Department of Economics.

April 2018 - June 2023 *Associate professor* in Statistics at University of Bergamo.

Dec. 2008 - March 2018 *Assistant professor* in Statistics at University of Bergamo.

### Professional experiences

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Oct. 2012 - Nov. 2012 *Honorary research fellow* at the MRC Centre for Environment and Health, Department of Epidemiology and Biostatistics, Imperial College London (UK).

Oct. 2007 - March 2008 *Research fellow* at the Statistical and Applied Mathematical Science Institute (SAMSI), Research Triangle Park, NC (USA). Project title “Environmental Sensor Networks”, local coordinator Prof. A. Gelfand.

Nov. 2005 - Dec. 2008 *Research fellow* at University of Bergamo, Department of Information Technology and Mathematical Methods. Project title “Stochastic models for heterogeneous environmental monitoring networks”, supervisor Prof. A. Fassò.

### Education

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- *Ph.D. in Statistics*, University of Milan-Bicocca (Italy), 2002-2006. Dissertation title “Spatio-temporal models for environmental data” (in Italian), supervisor Prof. A. Fassò.
- *Summa cum Laude MSc in Statistics, Demography and Social Sciences*, University of Milan-Bicocca (Italy), 2001.

## Relevant grants

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- Principal investigator of the Bergamo research unit for the PRIN 2022 project “Statistics for vegetation biodiversity: estimation and mapping (SVeBio)”.  
Project duration: from 30/11/2023 to 28/02/2026  
Main investigator: S. Franceschi (University of Siena).  
Website: <https://sites.google.com/view/svebio-project>
- Member of the National Center for Sustainable Mobility (MOST) project, Spoke 1.  
Local principal investigator: R. Redondi (University of Bergamo).  
Project duration: from 01/09/2022 to 31/12/2025.  
Website: <https://www.centronazionalemost.it/>
- Member of the project “Aging in medium-sized cities: how housing conditions and urban spaces can reduce or increase opportunities for healthy longevity (CASA)”.  
Local principal investigator: F. Morganti (University of Bergamo).  
Project duration: from 01/11/2024 to 31/10/2025.  
Website: <https://www.valindex.it/>
- Member of the Agrimonia project (“Agriculture Impact On Italian Air”) funded by Fondazione Cariplo.  
Project duration: from 01/11/2021 to 30/04/2023.  
Main investigator: A. Fassò (University of Bergamo).  
Website: <https://agrimonia.net/>
- Principal investigator of the Bergamo research unit for the PRIN 2015 project “Environmental processes and human activities: capturing their interactions via statistical methods (EphaStat)”.  
Project duration: from 05/02/2017 to 05/02/2020.  
Main investigator: D. Cocchi (University of Bologna).  
Website: <https://sites.google.com/site/ephastat/>
- Principal investigator of the Bergamo research unit for the FIRB2012 (Futuro in ricerca) project “Statistical modeling of environmental phenomena: pollution, meteorology, health and their interactions” (code RBFR12URQJ).  
Project duration: from 21/03/2013 to 21/03/2017.  
Main investigator: F. Bruno (University of Bologna).  
Website: <http://stephiproject.it/>
- Member of the EN17 project (n. 17369.10) “Methods for the integration of renewable energy sources and the satellite monitoring of the environmental impact” founded by Lombardia region (Jan. 2011 - Apr. 2012); principal investigator A. Fassò, University of Bergamo.
- Principal investigator of the project “GPU techniques for the Advanced Spatio-Temporal Statistical Modelling (GPU4MASST)” in collaboration with the CILEA Interuniversity Consortium for the Interdisciplinary Laboratory for Advanced Simulation (LISA) initiative (Jan. 2010 - Aug. 2012).
- Principal investigator of local funds (MIUR ex-60%) at University of Bergamo for the following projects: Statistical modeling for the analysis of complex data and uncertainty assessment (2025), Managing complexity and assessing uncertainty using statistical methods and models (2024), Computationally intensive statistical methods for the analysis of complex data (2023), Integration and analysis of big data in the context of relevant socio-economic topics (2022), Collection and classification of new generation data for the analysis of social phenomena in Europe (2021), Use of innovative data source for the analysis of social phenomena and the estimation of the performance in the entertainment market (2020), Innovative methods for data collection, large-scale surveys, and advanced statistical models for the analysis of social phenomena with a transnational and longitudinal perspective (2019), New frontiers in the production and

use of Big Data: from web data collection to data fusion for the measurement of complex phenomenon (2018); Statistical tools and methods for surveying and modelling complex social phenomena (2017); Environmental risk and health: an economic-statistics approach (2016); Statistical models for the analysis of macroseismic data (2015); Computationally intensive methods for health and environment (2014); Studying the impact of air pollution on human health (2013); Statistical models for the estimate and the spatial prediction of macroseismic intensity (2011-2012); Computational intensive methods for the estimation and the mapping of spatio-temporal models (2010); Comparison of hierarchical spatio-temporal models for air quality pollutants (2009).

## Teaching

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### Bachelor's Degree Programs

- From A.Y. 2025/2026 *Lecturer* (54 hours) of the course “Statistica descrittiva e calcolo delle probabilità” (9 CFU, in Italian) in the Data analytics, Economia e Tecnologie digitali program of the Dept. of Economics, University of Bergamo.
- From A.Y. 2008/2009 to 2018/2019 *Principal lecturer* (72 hours) of the course “Statistica I” (9 CFU, in Italian) in the Business Administration program of the Dept. of Management, University of Bergamo.

### Master's Degree Programs

- For A.Y. 2023/2024 and 2024/2025 *Lecturer* (36 hours) of the course “Metodi di Analisi di Data Set” (6 CFU, in English), in the “Geourbanistica” master program of the Dept. of Languages, University of Bergamo.
- For A.Y. 2021/2022 and 2022/2023 *Lecturer* (48 hours) of the course “AI and Machine learning for finance” (6 CFU, in English), in the Economics and Finance program of the Dept. of Economics, University of Bergamo.
- From A.Y. 2018/2019 *Lecturer* (48 hours) of the course “Machine learning for economics” (6 CFU, in English), in the Economics and Data analysis program of the Dept. of Economics, University of Bergamo (only for A.Y. 2025/2026 32 hours).
- From A.Y. 2018/2019 to 2021/2022, from 2023/2024 to 2024/2025 *Lecturer* (16 hours) of the course “Coding for Data Science” (in English), in the Economics and Data analysis program of the Dept. of Economics, University of Bergamo.
- From A.Y. 2017/2018 *Lecturer* (36 hours) of the course “Statistica Applicata per la Finanza” (9 CFU, in Italian), in the Management, Finance and International Business program of the Dept. of Management, Economics and Quantitative Methods, University of Bergamo.
- For A.Y. 2011/2012 and from A.Y. 2013/2014 to A.Y. 2021/2022 *Lecturer* (24 hours for A.Y. 11/12-16/17 and 21/22, 36 hours for A.Y. 15/16-20/21) for the course “Probability and Statistics for Business and Finance - Advanced” (9 CFU, in English), in the International Management, Entrepreneurship and Finance program of the Dept. of Management, Economics and Quantitative Methods, University of Bergamo.
- For A.Y. 2010/2011 *Lecturer* (16 hours) of the course “Probabilità e Statistica avanzata per la Finanza” (9 CFU, in Italian), in the Management, Finance and International Business program of the Dept. of Management, Economics and Quantitative Methods, University of Bergamo.

### PhD Programs

- For A.Y. 2021/2022 and 2022/2023 *Lecturer* of the course “Statistics” (9 hours) for the PhD program on Applied Economics and Management (AEM), University of Bergamo.

- For A.Y. 2018/2019 and 2020/2021 *Lecturer* of the course “Statistics” (15 hours) for the PhD program on Applied Economics and Management (AEM), University of Bergamo.
- For A.Y. 2017/2018 *Lecturer* of the course “Financial Modelling” (6 hours) for the PhD program on Applied Economics and Management (AEM), University of Bergamo.
- For A.Y. 2016/2017 *Lecturer* of the course “Programming in R” (10 hours) for the PhD program on Analytics for Economics and Business (AEB), University of Bergamo.
- For A.Y. 2013/2014 *Lecturer* of the seminar “Programming in R” (3 hours) for the PhD program on Analytics for Economics and Business (AEB), University of Bergamo.

### Summer schools

- *Lecturer* (with M. Blangiardo) of the course “Spatial and Spatio-Temporal Bayesian Models with R-INLA”, Valencia International Bayesian Analysis Summer School, 5th edition, University of Valencia, 20-21 July 2022, <http://vabar.es/events/vibass5/>
- *Lecturer* (with M. Blangiardo) of the course “Spatial and Spatio-Temporal Bayesian Models with R-INLA”, University of Glasgow, 27 August 2019, <https://www.gla.ac.uk/events/conferences/geomed/pre-conferenceworkshops/>
- *Lecturer* (with M. Blangiardo and A. Freni Sterrantino) for the course “Spatial and Spatio-Temporal Bayesian Models with R-INLA”, at Imperial college London (UK), 16-18 November 2017. <http://www.sahsu.org/content/short-course-spatial-and-spatio-temporal-bayesian-models-r-in>
- *Lecturer* of the course “An Introduction to Bayesian Computing with INLA”, SISBAYES 2017 conference, Sapienza University of Rome (IT), 7-8 February 2017, <http://stat-events.wixsite.com/sisbayes2017>.
- *Lecturer* (with M. Blangiardo) of the course “Spatial and Spatio-Temporal Bayesian Models with R-INLA”, GEOSTAT Summer School, University of Castilla-La Mancha (Albacete, ES), 18-25 September 2016, <https://geostat-course.org/content/geostat-2016-albacete>
- *Lecturer* (with M. Blangiardo) of the course “Spatial and Spatio-Temporal Bayesian Models with R-INLA”, University of Bergamo, 12-15 January 2016, [http://www00.unibg.it/struttura/struttura.asp?cerca=dsaemq\\_r-inla2015](http://www00.unibg.it/struttura/struttura.asp?cerca=dsaemq_r-inla2015)

### Institutional and PhD activities

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- From 2025 Responsible for the bachelor degree in *Data analytics, Economia e Tecnologie digitali* at the University of Bergamo.
- From 2024 Member of the Faculty Committee of the PhD in *Economia, Statistica e Data Science*, University of Milano-Bicocca.
- From October 2024 Member of the Academic Senate of University of Bergamo as Full Professor.
- From June 2023 Delegate of the Department of Economics in the University of Bergamo Commission for physically disabled students and/or with specific learning disorders.
- October 2023-October 2025 Member of the "Scuola di Economia e Management", University of Bergamo.
- October 2021 - June 2023 Member of the Academic Senate of University of Bergamo as Associate Professor.
- April 2019 - April 2025 Member of the Research Ethics Committee (*Comitato per l'integrità e l'etica della ricerca*) of University of Bergamo.
- From 2017 Member of the Faculty Committee of the PhD (from XXXIII cycle) in *Applied Economics and Management (AEM)*, University of Bergamo.

2016 - 2018 Member of the departmental committee for the distribution of research funding, Department of Management, Economics and Quantitative Methods, University of Bergamo.

From 2013 Member of the Faculty Committee of the PhD (from XXIX to XXXII cycle) in Analytics for Economics and Business (AEB, now deactivated), University of Bergamo.

Nov. 2012 - Oct. 2015 Member of the departmental Research Committee (Consiglio della Ricerca) for the Department of Management, Economics and Quantitative Methods, University of Bergamo.

2013 - 2017 External examiner for the following PhD theses (the viva date is reported):

- Laura Serra Saurina, Mixed models and point processes, 22 November 2013, University of Girona (E).
- Monica Pirani, Statistical methods for the analysis and interpretation of airborne particle exposure metrics within a time series framework, 26 November 2015, King's College London (UK).
- André Python, Modelling the Spatial Dynamics of Terrorism: World Study, 2002-2013, 25 April 2017, University of St Andrews (UK).
- Francesca Giuseppina Pannullo, Spatial modelling of air pollution, deprivation and mortality in Scotland, 28 August 2017, University of Glasgow (UK).
- Nadeen Khaleel, Bayesian Analysis of Spatial Log-Gaussian Cox processes, 18 January 2022, University of Bath (UK).
- Stephen Jun Villejo, A two-stage Bayesian modelling framework with applications in spatial epidemiology, 26 August 2025, University of Glasgow (UK).
- Michela Frigeni, Enhancing diagnostic tools for regional air quality monitoring and decision making, 12 February 2026, Politecnico of Milano (IT).

### **Organizational activities in scientific conferences**

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- Member of the Organising Committee of the Bergamo-Waseda Workshop on Inference for Stochastic Processes and Applications, 26-28 January 2023, University of Bergamo (IT), <https://bw-wispa.unibg.it/>
- Chair of the Scientific Committee of the 29th International Environmetrics Society (TIES) Conference, London (UK), 14-16 September 2020 (postponed to September-December 2021 as diffuse conference online) <http://www.imperial.ac.uk/school-public-health/epidemiology-and-biostatistics/ties-2020/>.
- Organizer of the invited session "Statistical modelling in environmental epidemiology" at the 50th Scientific Meeting of the Italian Statistical Society SIS 2020, Pisa (IT), 22-24 June 2020 (cancelled due to the Corona Virus pandemic) <https://meetings3.sis-statistica.org/index.php/sis2020/50>.
- Member of the Scientific Committee of the Italian Statistical Society (SIS) conference on *Smart Statistics for Smart Applications*, Milano (IT), 19-21 June 2019 <https://www.mathesia.com/home/sis19/>.
- Chair of the Local Committee of the joint TIES-GRASPA 2017 Conference on Climate and Environment, Bergamo (I), 24-26 July 2017, <http://meetings3.sis-statistica.org/index.php/graspa2017/>
- Organizer (together with A. Fassò) of the invited session "Environment and Health" at the TIES 2016 Conference, Edinburgh (UK), 18-22 July 2017, <http://www.ed.ac.uk/math/international-environmetrics-society/about-the-ties-conference/invited-sessions>.

- Member of the Scientific Committee of the joint METMA VII - GRASPA14 conference, Torino (I), 10-12 Sept. 2014, <http://meetings.sis-statistica.org/index.php/graspametma14/>.
- Member of the Program Committee for the UseR! 2013 Conference “The R User Conference 2013”, Albacete (S), 10-12 July 2013, <http://www3.uclm.es/congresos/useR-2013/>.
- Organizer (together with M. Blangiardo) of the special topic session “Spatial and spatio-temporal models for environmental epidemiology (STS059)” at the 59th World Statistics Congress, Hong Kong, 25 - 30 August 2013, <http://2013.isiproceedings.org/>.
- Member of the Local Organizing Committee of the TIES 2009 Conference “Handling complexity and uncertainty in environmental studies”, Bologna (I), 5-9 July 2009, <http://www2.stat.unibo.it/ties2009/>.

## Conference talks

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- 2026 Invited talks “A spatiotemporal analysis of NO<sub>2</sub> concentrations in the case of policy interventions“, SIGNUM Project Final Workshop (Statistical methods to address the nexus between mobility and air quality), 04 February 2025, University of Bergamo.
- 2025 Invited talks “Spatio-temporal modeling for air pollution data” and “Introduction to INLA and SPDE”, Intersecting Climate Science and Geostatistics: A Conference on Spatio-Temporal Interpolation, Joint Research Centre (JRC) - ISPRA (IT), 12-14 February 2025.
- 2024 Invited talk “Spatio-temporal modeling for air pollution data”, Workshop on hierarchical Bayesian spatio-temporal modelling, University of Valencia (ES), 16-18 April 2024.
- 2023 Invited talk “A spatio-temporal analysis of NO<sub>2</sub> concentrations during the Italian 2020 COVID-19 lockdown“, Bergamo-Waseda Workshop on Inference for Stochastic Processes and Applications, University of Bergamo (IT), 26-28 January 2023.
- 2021 Plenary talk “A year of Covid-19 pandemic in Italy: impact on air pollution and mortality”, GRASPA-SIS conference 2021 (remote conference), 7-9 June 2021.
- 2021 Invited talk “The Covid-19 pandemic: impact on air-pollution, health and mortality”, virtual seminar in the series of Statistics seminars at Department of Mathematical Sciences, NTNU (Trondheim, Norway), 01 March 2021.
- 2020 Invited talk “The Covid-19 pandemic: impact on air-pollution, health and mortality”, TIES 2020 Virtual Conference - Frontiers in Statistics, Epidemiology and the Environment, 2-4 December 2020.
- 2020 Contributed talk “Comparing Methods to Retrieve Tweets: a Sentiment Approach”, 3rd International Conference on Advanced Research Methods and Analytics (CARMA 2020), organised online by the Universitat Politècnica de València (ES), 8-9 July 2020.
- 2020 Invited talk “Covid-19, air pollution and climate change: the statistics point of view”, Aidambiente web colloquium on Corona virus, air pollution and climate change, 23 July 2020.
- 2019 Plenary talk “Statistical challenges in air pollution health risk assessment”, XVII Spanish Biometric Conference, Valencia (ES), 19-21 June 2019.
- 2017 Invited talk “Statistical challenges in modelling spatially misaligned exposure and health data”, workshop on *Air pollution and health: statistical challenges in the modelling and in communicating the results*, Royal Statistical Society (RSS) London, 24 April 2017.

- 2016 Plenary talk *Statistical challenges in air pollution health risk assessment*. II Galician-Portuguese meeting of Biometry with applications to the Health Sciences, Ecology and Environmental Sciences (BIOAPP 2016), Santiago de Compostela (ES), 30 June-02 July 2016.
- 2015 Invited talk “Spatial and Spatio-Temporal Bayesian models with R-INLA”, workshop *Ninth Torino R net meeting*, Torino (I), 4 June 2015.
- 2015 Invited talk *Assessing the effect of air pollution on human health using drug sales*. Spatial Statistics: Emerging Patterns, Avignone (F), 9-12 June 2015.
- 2015 Invited talk *Assessing the effect of air pollution on human health using drug sales*. XXXV Congreso Nacional de Estadística e Investigación Operativa (SEIO2015), Pamplona (ES), 26-29 May 2015.
- 2013 Invited discussant for the session *Graph theoretic methods for spatial data analysis*. 59th ISI World Statistics Congress, Hong Kong (CHN), 25-30 August 2013.
- 2013 Invited talk *The INLA approach for Bayesian air quality models*. 59th ISI World Statistics Congress, Hong Kong (CHN), 25-30 August 2013.
- 2013 Invited talk *The INLA approach for disease mapping and health risk assessment*. SIS2013 Statistical Conference - Advances in Latent Variables, Brescia (I), June 19, 2013,
- 2012 Invited talk *The SPDE-INLA approach for Bayesian air quality models*, Workshop on Energy, Air Quality and Sustainability: Models and Evidence (FAMEA project). Bergamo (I), November 2012.
- 2011 Contributed talk *Using the SPDE approach for air quality mapping in Piemonte region*, Spatial 2 Conference - Spatial Data Methods for Environmental and Ecological Processes, Foggia (I), September 2011.
- 2011 Invited talk *Comparing spatio-temporal models for air quality data*, Biostatistics seminar at Imperial College London, London (UK), January 2011.
- 2010 Invited talk *Comparing spatio-temporal models for air quality data*, Biostatistics seminar at the Faculty of Statistics - University of Milano-Bicocca, Milano (I), September 2010.
- 2009 Contributed talk *Comparing spatio-temporal models for air quality data*, Pascal Workshop on spatiotemporal modelling, Edinburgh (UK), October 2010.
- 2009 Invited talk *Distributed computing for spatio-temporal hierarchical models*, SIS Conference - Statistical Methods for the analysis of large data-set, Pescara (I), September 2009.
- 2009 Invited talk *Comparing air quality statistical models*, TIES 2009 Conference - Handling complexity and uncertainty in environmental studies, Bologna (I), July 2009.
- 2008 Invited talk *Comparing hierarchical spatio-temporal models for air quality data* intermediate GRASPA workshop for the PRIN project *Metodi statistici e modelli spazio-temporali per il monitoraggio dell'inquinamento atmosferico*, Siena (I), March 2008.
- 2007 Invited talks *Introduction to geostatistics* and *Space-time modeling of PM10 in Piemonte: a dynamic approach*, GRASPA Workshop, Torino (I), December 2007.
- 2007 Invited talk *Computer intensive procedures for mapping and modeling a spatio-temporal process and its uncertainty*, TIES Conference, Mikulov (CZ), August 2007.
- 2007 Invited talk *Spatio-temporal models for environmental data*, workshop of Environmetrics and Stochastic processes, University of Bergamo, Bergamo (I), January 2007.
- 2006 Invited talk *Spatio-temporal models for environmental data*, European University Viadrina of Frankfurt Oder (D), September 2006.

- 2005 Contributed talk *Resampling methods for bias reduction of animal density estimators in Point Transect sampling*, SCo Conference Modelli Complessi e Metodi Computazionali Intensivi per la Stima e la Previsione, Bressanone (I), September 2005.
- 2005 Contributed talk *Comparing estimators of animal abundance: a simulation study*, SIS Conference Statistica ed Ambiente, Messina (I), September 2005.

## Scientific memberships and editorial activities

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- Member of The International Environmetrics Society (TIES), of the Research group for Statistical Applications to Environmental Problems (GRASPA, <http://www.graspa.org/>), of the International Society for Bayesian Analysis (ISBA) and of the Italian Statistical Society (SIS).
- Secretary of the Research group for Statistical Applications to Environmental Problems (GRASPA, [www.graspa.org/](http://www.graspa.org/)) from 03/08/2013 to 31/07/2015 and from 22/09/2015 to 31/07/2017.
- Executive Editor for the Sort journal (Statistics and Operations Research Transactions) (<https://www.idescat.cat/sort/>).
- Associate Editor for the Spatial and Environmental Statistics Section of the New England Journal of Statistics in Data Science ([https://journal.nestat.org/section\\_pages/spatial\\_env\\_stat](https://journal.nestat.org/section_pages/spatial_env_stat)).
- Referee for the following journals: Applied Geomatics, Atmospheric Environment, AStA Advances in Statistical Analysis, Biometrical Journal, Environmental Science & Technology, Environment International, Environmetrics, Journal of Applied Statistics, Journal of Statistical Computation and Simulation, Journal of the Royal Statistical Society C, Regional Science and Urban Economics, Spatial Statistics, Scientific Report, Statistical Methods & Applications, Statistics in Medicine, Statistical papers, Stochastic Environmental Research and Risk Assessment, Sustainability.
- From 2016 member of the editorial board of *Statistica & Società* (<http://www.rivista.sis-statistica.org/>), the Italian journal for the dissemination of statistical culture.
- From 2011 editor in chief of the Grasp collection of working papers (ISSN: 2037-7738), [http://graspa.org/working\\_papers/](http://graspa.org/working_papers/).
- Editor, together with Virgilio Gómez-Rubio and Martyn Plummer, of the special issue on Bayesian Statistics for the Journal of Statistical Software.
- Editor, together with Virgilio Gómez-Rubio, Marta Blangiardo and Gianluca Baio, of the Special Issue "Statistical Methods for the Analysis of Infectious Diseases" for *Mathematics*, section Probability and Statistics Theory [https://www.mdpi.com/journal/mathematics/special\\_issues/statistical\\_methods\\_diseases](https://www.mdpi.com/journal/mathematics/special_issues/statistical_methods_diseases)

## Awards, individual grants and fellowships

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- Best paper award (together with Daniele Toninelli and Stephan Schlosser) for the paper "Comparing Methods to Retrieve Tweets: a Sentiment Approach", presented at the Third International Conference on Advanced Research Methods and Analytics (CARMA 2020), held virtually in València (ES) on 8-9 July, 2020.
- Research award (5000 euro) sponsored by University of Bergamo ("5 per mille 2016" funds) for the participation in a funded PRIN2015 project as local principal investigator.
- Research award (1000 euro) sponsored by University of Bergamo ("5 per mille 2012" funds) for the research activity carried out during 2011.

- Research fellowship for a visiting period to be spent from 08/10/2012 to 16/07/2013 at MRC Centre for Environment and Health Department of Epidemiology and Biostatistics, Imperial College London (UK) founded by the project FYRE - Fostering Young REsearchers, Bando Fondazione Cariplo “Promuovere la formazione di capitale umano di eccellenza”.
- Best poster award for the poster titled “A spatio-temporal model for air quality mapping using uncertain covariates” (with S. Ghigo and R. Ignaccolo) presented at Spatial 2, Spatial Data Methods for Environmental and Ecological Processes - 2nd Edition, Foggia (I), Sept. 1-2, 2011.
- Research fellowship (October 2007 - March 2008) at the Statistical and Applied Mathematical Science Institute (SAMSI), Research Triangle Park, NC (USA) for the project “Environmental Sensor Networks”.

### **Research and teaching appointments for public institutions**

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2014 Three-days course “R software for time series analysis” organised for the Statistics Office of the Camera di Commercio Industria Artigianato e Agricoltura, Brescia.

20/02/2013-30/03/2013 Research contract by Istituto Nazionale di Geofisica e Vulcanologia (INGV, Roma) for the project “Analisi statistica di dati di intensità macrosismica”.

### **Visiting periods abroad**

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Oct.-Nov. 2012 Honorary Research Fellow at MRC Centre for Environment and Health Department of Epidemiology and Biostatistics, Imperial College London (UK).

Jan.-Feb. & Oct. 2011 Visiting researcher at the Department of Mathematical Sciences, Norwegian University of Science and Technology (NTNU), Trondheim (N).

Oct. 2007 - March 2008 Research Fellow at Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC (USA); project title "Environmental Sensor Networks", local coordinator Prof. A. Gelfand.

Sept. 2006 Visiting scholar at the Department of Statistics, Europa-Universität Viadrina of Frankfurt Oder (D).

### **Attended summer schools and courses**

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2018 *RECSM Summer School Big Data and Social Media Research and Machine Learning for Social Sciences*, Barcelona (ES), 2-4 July 2018.

2017 *SIS School Data science on digital unstructured sources*, Milano (IT), 1-8-15-22-29 September 2017.

2012 *GEOSTAT 2012 Summer School Spatio-temporal data analysis using R and Open Source GIS tools*, Münster (D), 3-11 September 2012, <http://www.geostat-course.org/>.

2006 Applied Bayesian Statistics School *Hierarchical modelling approaches for spatial data in environmental and health sciences*, Bertinoro (I), 17-21 July 2006.

2004 SIS School *Approcci moderni all’analisi robusta di dati multidimensionali (Modern approaches for the robust analysis of multidimensional data)*, Parma (Italy), 20-24 September 2004.

## Publications

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### - Books

- [1] M. Blangiardo, M. Cameletti *Spatial and Spatio-temporal Bayesian Models with R-INLA*, 2015, Wiley, ISBN: 978-1-118-32655-8.  
<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1118326555.html>

### - Chapters in books

- [1] R. Argiento, M. Cameletti. Software Packages for Bayesian Analysis. In *International Encyclopedia of Statistical Science*, 2025, Ed. M. Lovric, Springer, ISBN: 978-3-662-69358-2.
- [2] L. Patelli, M. Cameletti, N. Golini, R. Ignaccolo. A Path in Regression Random Forest Looking for Spatial Dependence: A Taxonomy and a Systematic Review. In *Advanced Statistical Methods in Process Monitoring, Finance, and Environmental Science. Essays in Honour of Wolfgang Schmid*, 2024. Eds. S. Knoth, Y. Okhrin, P. Otto, ISBN: 978-3-031-69110-2
- [3] M. Blangiardo, M. Cameletti. Computational Issues and R Packages for Spatial Data Analysis. In *Handbook of Spatial Epidemiology*, 2016, Eds. A.B. Lawson, S. Banerjee, R.P. Haining, M.D. Ugarte, CRC Press, ISBN: 9781482253016.
- [4] M. Cameletti, F. Finazzi. GPU algorithms for likelihood-based inference of environmental models with large datasets. In *Complex Models and Computational Methods in Statistics*, Grigoletto M., Lisi F., Petrone S. (Eds.), 2013, ISBN: 978-88-470-2870-8

### - Edited books and editorials

- [1] M. Cameletti, V. Gómez-Rubio. Software for Bayesian Statistics. *Journal of Statistical Software*, 2021, 100(1), 1-7. <https://doi.org/10.18637/jss.v100.i01>
- [2] F. Finazzi, M. Cameletti (Eds.), *Quantitative Methods in Environmental and Climate Research*, 2018, Springer, ISBN:978-3-030-01583-1

### - Peer-reviewed articles

- [1] A. R. M. Alsayed, M. Cameletti. Air demand forecasting for passengers and freight in Italy: A comparison of two statistical models. *Journal of Air Transport Management*, 2026, 134:102975, <https://doi.org/10.1016/j.jairtraman.2026.102975>
- [2] L. Patelli, M. Cameletti, V. De Rubeis, N. A. Pino, C. Piromallo, P. Sbarra, P. Tosi. Machine learning for prompt estimation of macroseismic intensity from seismometric data in Italy. *Scientific Reports*, 2026, 16:7265, <https://doi.org/10.1038/s41598-026-35740-x>
- [3] L. Patelli, N. Golini, R. Ignaccolo, M. Cameletti. S-SIRUS: an explainability algorithm for spatial regression Random Forest. *Statistics and Computing*, 2025, 35:142.
- [4] P. Otto, A. Fusta Moro, J. Rodeschini, Q. Shaboviq, R. Ignaccolo, N. Golini, M. Cameletti, P. Maranzano, F. Finazzi, A. Fassò. Spatiotemporal modelling of PM<sub>2.5</sub> concentrations in Lombardy (Italy): a comparative study. *Environmental and Ecological Statistics*, 2024, 31, 245-272.
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Tutto quanto dichiarato corrisponde a verità ai sensi delle norme in materia di dichiarazioni sostitutive di cui agli artt. 46 e seguenti del D.P.R. 445/2000.

Autorizzo il trattamento dei dati personali ai sensi del regolamento UE 2016/679 e D. Lgs 196/03 e successive integrazioni e modificazioni.