Curriculum Vitae

Raffaele Argiento

Current Academic Positions

- Full Professor of Statistics – Department of Economics *University of Bergamo*, Bergamo (Italy)
- Deputy director of the Department of Economics – Università degli Studi di Bergamo

Research Interests

My research interests mainly focus on Bayesian inference (parametric and nonparametric), emphasizing modelling and computational aspects. My main activity concerns mixture models for cluster analysis. From an application point of view, my work concerns probability and statistics in biology, healthcare management, medicine, and engineering.

Experience and past positions

Sep. 2019 – Aug. 2021	Associate Professor of Statistics – Department of Statistical Sciences *Università Cattolica del Sacro Cuore*, Milano
Jun. 2020	National habilitation to become full professor in Statistics (*Settore Concorsuale* 13/D1, *Settore Scientifico Disciplinare* SECS-S/01)
Sep. 2016 – Aug. 2022	Fellow of the *de Castro Statistics initiative – Collegio Carlo Alberto* Torino Italy
Jen. 2020 – May 2020	Visiting Assistant professor at Division of Science of the Yale - National University of Singapore.
Nov. 2016 – Sep. 2019	Assistant Professor of Statistics (Rtd-B) at *Dipartimento di Scienze Economico-Sociali e Matematico-Statistiche* (ESOMAS – Department of Economic, Social, Mathematical and Statistical Sciences) of the University of Torino, Italy.
Jen. 2019 – May 2019	Visiting Assistant professor at Division of Science of the Yale - National University of Singapore.
Sep. 2015 – Aug. 2016	Lecturer in Statistics at the University of Kent, School of Mathematics, Statistics and Actuarial Sciences, Canterbury (UK).
Jan. 2008 – Sept. 2016	Researcher at the Milano branch of the Institute for Applied Mathematics and Information Technologies "E. Magenes" of the Italian National Research Council (CNR-IMATI), Milan (Italy).
Oct. 2005 - Dec. 2008	Postdoc fellowship at the Milano branch of the Institute for Applied Mathematics and Information Technologies of the Italian National Research Council (CNR-IMATI). From April to December 2007 the position was founded by "Sovvenzione Globale INGENIO", a project of *Regione Lombardia* founded by the European Social Fund 2000-2006.
Sept. 2004 - Jun. 2005	Visiting scholar at *Math Department* of *University of Pennsylvania*, Philadelphia (PA.) USA Supervisor: Prof. R. Pemantle

Jan. 2002 - Sept. 2002 Scholarship holder for a research project: "Probabilistic and statistical analysis of random point processes". CNR-IAMI (now CNR-IMATI), Milan.

Education

Sept. 2002 - Apr. 2007 Ph.D. in Statistics, University "L. Bocconi", Milano (Italy). Dissertation: "*Bayesian Semiparametric Inference for Accelerated Failure Time Models.*" Advisers: Dr. A. Pievatolo and Prof. S. Petrone

Jan. 2001 - Dec. 2001 M.Sc. in Applications of Mathematics in Industry and Services, Bicocca University, Milano. Dissertation: "*Survival Analysis, an Application to Underground Trains*". Adviser: Dr. Antonio Pievatolo

Oct. 1994 - Jun. 2000 Bachelor's degree (M.Sc. level) in Mathematics, University "Federico II", Napoli. Thesis: "*Inclusioni Differenziali e Teoria del Controllo*" (Differential Inclusions and Control Theory). Adviser: Prof. J. Morgan

Research Projects

2023-25 *Co-investigator – Ministy of Education Singapore* – Tier 2 Grant: From Digital Numismatics to a New History of Ancient Empires.

2023-25 *Co-investigator – European Union – Next Generation EU PRIN-PNRR Project.* Statistics for vegetation biodiversity: estimation and mapping (SVeBio). Member of the research unit at the University of Bergamo

2023-25 *Co-investigator – European Union – Next Generation EU PRIN project.* Discrete random structures for Bayesian learning and prediction. Member of the research unit at Politecnico di Milano

2022 *Principal investigator – Fondo di Beneficenza Intesa San Paolo.* CluB-PMx^2 - CLUstering: Bayesian Partition Models for Precise Medicine. Agreements between the University of Bergamo, University of Florence, and Collegio Carlo Alberto (Torino)

2021 *Principal investigator – D1 project, Università Cattolica del Sacro Cuore.* Bayesian methods for clustering, functional analysis, and structural learning of complex data

2020 *Co-investigator – D1 project, Università Cattolica del Sacro Cuore.* Metodi statistici per problemi complessi

2018-19 *Principal investigator – University of Torino – ESOMAS Department research project* Dependent models in Bayesian Nonparametric Statistics: computational aspects

2017 *FFABR – Finanziamento delle Attività Base di Ricerca* financial support provided by the Italian Ministry of Research to sustain the research activities of young researchers

2017-18 *Principal investigator – University of Torino – ESOMAS Department research project* Methodological and Computational Problems in Modern Bayesian nonparametric inference.

2016-2017 *Individual project – University of Torino – Young Excellence ESOMAS Department research project* Bayesian nonparametric cluster analysis, new challenges in the "big data" era.

2013-15 *Co-investigator – Framework agreement between Regione Lombardia and CNR*: INTEGRATE - Innovazioni Tecnologiche per una Gestione Razionale del Tessuto Edilizio (*Technologial innovations for a rational management of the built environment*).

2014 *Co-investigator – Flagship project, CNR & MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca), Factory of the Future*: Hospital factory for manufacturing customized, patient specific 3D anatomo-functional model and prostheses – Fab@Hospital.

2012-13 *Joint principal investigator – Bilateral agreement C.N.R. (Italy)/N.S.C. (Taiwan)*: Bayesian Statistical Methods in Clustering Single Nucleotide Polymorphisms.

2012-13 *Joint principal investigator – Bilateral agreement CNR (Italy) /CNPq (Brasile)*: Spatial partitions models in the construction of maps for neonatal deaths in Minas Gerais.

2011 *Co-investigator – Joint project CNR - Lombardia Region Regione*: Nuove tecnologie e strumenti per l'efficienza energetica e l'utilizzo delle fonti rinnovabili negli usi finali civili. (*New tools and technologies for energy efficiency and the use of renewable sources in residential buildings*).

2007 *Principal Investigator* – Project of *Regione Lombardia* founded by the European Social Fund 2000-2006, *Sovvenzione globale INGENIO*: Survival Analysis.

Teaching for Bachelor programs and Masters of Science

From 2023 - *M.Sc Economics and Data Analysis* – Università degli Studi di Bergamo (48h, taught in English). Lecturer of the course "*Applied Statistical Modelling*". The course introduces statistical modelling for students enrolled in the Data Science Curriculum within the M.Sc program. It introduces Bayesian Statistics, including linear regression and generalized linear models in this framework. For instance, see Hoff, P. D. (2009). A first course in Bayesian statistical methods. New York: Springer.

From 2023 - *M.Sc Economics and Data Analysis* – Università degli Studi di Bergamo (24h, taught in English). Lecturer of the course "*Probability and Statistics*". The course is taught to all students of the M.Sc program (both the curriculum in Economics and in Data Science). First, the main probability concepts for random variables are recalled, and then the basic ideas of maximum likelihood estimation are gently introduced. For instance, see Azzalini, A. (2017). Statistical inference based on the likelihood. Routledge.

From 2022 - *B.Sc Economics* – Università degli Studi di Bergamo (48h, taught in English). Lecturer of the course "*Inferential Statistics*". This is an optional course taught in English. The course deals with the theory of random variables and then introduces inference. In particular, point estimation, confidence intervals, and hypothesis testing. For instance, see Newbold, P., Carlson, W. L., & Thorne, B. (2013). *Statistics for Business and Economics*. Boston, MA: Pearson.

AA 2022/23 *M.Sc Economics and Data Analysis* – Università degli Studi di Bergamo (72h, taught in English). "*Applied Statistical Modelling*". The course was an introduction to statistical modelling for students opting for the European Master in Official Statistics (EMOS) within the M.Sc program in Economics for data science. It comprised two parts: the first dealt with Maximum likelihood estimator, Generalized linear regression modelling and Penalized regression; the second part was a gentle introduction to Bayesian Statistics. For instance, see James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An introduction to statistical learning. New York: Springer and Hoff, P. D. (2009). A first course in Bayesian statistical methods. New York: Springer.

AA 2022/23 *B.Sc Economia* – Università degli Studi di Bergamo (28h, taught in Italian). Lecturer of the course "*Statistica I*". This is an introduction to statistics for Business: 150 students are enrolled on average. The main topics are descriptive statistics and probability. For instance, see Newbold, P., Carlson, W. L., & Thorne, B. (2013). *Statistics for Business and Economics*. Boston, MA: Pearson.

AA 2022/23 *M.Sc Economics & Finance* – Università degli Studi di Bergamo (24h, taught in English). Lecturer of the course "*Statistics and Probability for Economics & Finance*". See for instance: Ruppert D., Matteson, D.S. (2015). Statistics and Data Analysis for Financial Engineering with R examples (second edition).

AA 2021/22 *M.Sc Management, Marketing and Finance* – Università degli Studi di Bergamo (48h, taught in English). Lecturer of the course "*Probability and Statistics for Business and Finance*". See for instance: Ruppert D., Matteson, D.S. (2015). Statistics and Data Analysis for Financial Engineering with R examples (second edition). Springer.

AA 2021/22 *B.Sc Business Economics* – Università degli Studi di Bergamo (48h, taught in Italian). Lecturer of the course "*Statistica*". This was a gentle introduction to statistics for Business – 300 students enrolled on average. For instance, see Newbold, P., Carlson, W. L., & Thorne, B. (2013). *Statistics for Business and Economics*. Boston, MA: Pearson.

AA 2019/20 *M.Sc Statistical and Actuarial Sciences* – Università Cattoloca del Sacro Cuore (30h, taught in English). Lecturer of the course "*Statistical Learning*". For instance, see James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An introduction to statistical learning. New York: Springer.

Spring 2020 *Major in Mathematical, Computational, and Statistical Sciences* – Yale NUS-College (30h, taught in English). Lecturer of the course "Data Science Accelerator". For instance, see Hastie, T., Tibshirani, R., Friedman, J. H., & Friedman, J. H. (2009). The elements of statistical learning: data mining, inference, and prediction. New York: Springer..

From 2019 to 2021 *M.Sc Statistical and Actuarial Sciences* – Università Cattoloca del Sacro Cuore (30h, taught in English). Lecturer of the course "*Statistical Modelling*". See, for instance, Hoff, P. D. (2009). A first course in Bayesian statistical methods. New York: Springer.

From 2019 to 2021 *B.Sc Business Economics* – Università Cattoloca del Sacro Cuore (60h taught in Italian). Lecturer of the course "*Statistica analisi dei dati e probabilità*" (i.e., Statistics (data analysis and probability). The course is a gentle introduction to statistics for Business, with 300 students enrolled on average. For instance, see Newbold, P., Carlson, W. L., & Thorne, B. (2013). *Statistics for Business and Economics*. Boston, MA: Pearson.

Spring 2019 *Major in Mathematical, Computational, and Statistical Sciences* – Yale NUS-College (30h, taught in English). Lecturer of the course "Bayesian Statistics". See, for instance, Hoff, P. D. (2009). A first course in Bayesian statistical methods (Vol. 580). New York: Springer.

AA 2019/20 *M.Sc Statistical and Actuarial Sciences* – Università Cattoloca del Sacro Cuore (30h, taught in English). Lecturer of the course "*Statistical Learning*". For instance, see James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An introduction to statistical learning. New York: Springer.

From 2017 to 2019 *M.Sc Stochastics and Data Science* – University of Torino (24 h, taught in English). Lecturer of the course: "Bayesian Statistics" cod. MAT0070 (in English).

From 2016 to 2019 *M.Sc Quantitative Finance and Insurance* – University of Torino (48 h, taught in English). Lecturer Course: "Numerical and Statistical Method for Finance" cod. ECO0152 (In English).

AA 2016/17 *B.Sc Business Economics* – University of Torino (24h, taught in Italian). Lecturer of the course "*Statistica per l'Azienda*" (i.e. Introuction to Statistics for Business) cod MAN0048.

A.A. 2015/16
- *B.Sc. in Statistics* University of Kent (30h, taught in English). Lecturer of the course "Applied Bayesian Modelling";
- *M.Sc. in Statistics* University of Kent (30h, taught in English). Lecturer of the module "Stochastic Models in Ecology and Medicine (Survival Analysis part)".

AA 2014/15 *M.Sc Mathematical Engineering* – Polytechnic of Milano. Teaching assistant and lab with R and WinBUGS within the course "Statistica Bayesiana", cod. 085941 (in Italian).

AA 2013/14 *M.Sc Mathematical Engineering* – Polytechnic of Milano. Teaching assistant and lab with R and WinBUGS within the course "Statistica Bayesiana", cod. 085941 (in Italian).

AA 2012/13 *M.Sc Mathematical Engineering* – Polytechnic of Milano. Teaching assistant and lab with R and WinBUGS within the course "Statistica Bayesiana", cod. 085941 (in Italian).

AA 2011/12
- *M.Sc Mathematical Engineering* – Polytechnic of Milano. Teaching assistant and lab with R and WinBUGS within the course "Statistica Bayesiana", cod. 085941 (in Italian);
- *M.Sc Computer Engineering* – Polytechnic of Milano. Teaching assistant within the course "Statistica" cod. 089085.

AA 2010-11
- *M.Sc Mathematical Engineering* – Polytechnic of Milano. Teaching assistant and lab with R and WinBUGS within the course "Statistica Bayesiana", cod. 085941 (in Italian).
- *M.Sc Computer Engineering* – Polytechnic of Milano. Teaching assistant within the course "Statistica" cod. 089085.

AA 2009/10
- *B.Sc Computer Engineering* – Polytechnic of Milano. Teaching assistant within the course "Statistica" cod. 072900;
- *B.Sc Mechanical engineering* – Lab with "R" within the courses "Statistica" cod. 086449 (in Italian), and Statistics cod. 086599 (in English).

AA 2008/09
- *B.Sc Computer Engineering* – Polytechnic of Milano. Teaching assistant within the course "Statistica" cod. 072900;
- *B.Sc Aerospace Engineering* – Polytechnic of Milano Teaching assistant and lab with R within the courses "Statistica Matematica A" cod. 061450 (in Italian).

AA 2007/08
- *B.Sc Business Economics* University "L.Bocconi", Teaching assistant within the course "Statistica", cod. 6045;
- *B.Sc Aerospace Engineering* Polytechnic of Milano. Teaching assistant and lab with R within the courses "Statistica Matematica A" cod. 061450 and "Statistica" cod. 072900.

AA 2005/07
- *B.ScBusiness Economics* University "L.Bocconi". Tutor within the courses "Statistica", cod. 5047 e 5067;
- *B.Sc Aerospace Engineering* – Polytechnic of Milano. Statistical lab with Excel cod.061450;
- *B.Sc Computer Engineering* – Polytechnic of Milano. Teaching assistant within the course "Statistica" (2L) cod. 072900.

Graduate Teaching (In English)

From 2019 - *Ph.D., Economia, Statistica e Data Science - ECOSTAT*, Università Milano Bicocca (12h). Bayesian Statistical Modelling

From 2016 to 2019 *Allievi Honors Program*, Collegio Carlo Alberto, Torino (30h). Course: "Introduction to Bayesian Statistics".

From 2014 to 2018	*Ph.D. in Statistics and Mathematical Finance*, Department of Department of Statistics and Quantitative Methods – Bicocca University, Milano (12h). Course: "Computational Statistics, modulus in MCMC & Computational Bayesian methods".
Oct. 2016	*Ph.D. in Statistics*, Department of Statistic of the *Universidade Federal de Minas Gerais*, Belo Horizonte – Brazil (9h). Course "Bayesian Nonparametric Modeling and Data Analysis: an Introduction".
From 2012 to 2015	*Ph.D. Statistics and PhD in Economics & Finance* – University "L.Bocconi", Milano. Lab with R within the course "Introduction Statistics".
Jul. 2013	*Applied Bayesian Statistics School* (ABS13). Lab with R and Jags within the course "Bayesian Methods for Variable Selection with Applications to High-dimensional Data", main lecturer prof. Marina Vannucci, Department of Statistics, Rice University, Houston, TX USA.
Set. 2012	*Applied Bayesian Statistics School* (ABS12). Lab with R and Jags within the course "Stochastic modelling for Systems Biology ", main lecturer, prof. Darren Wilkinson, School of Mathematics and Statistics, Newcastle University, UK.
Jul. 2011	*Applied Bayesian Statistics School* (ABS11). Lab with R and WinBugs within the course "Hierarchical modelling for environmental processes." main lecturer, prof. Alan Gelfand, Department of Statistical Science, Duke University, NC USA.
Jul. 2010	*Applied Bayesian Statistics School* (ABS10), Lab with R and WinBugs within the course "Bayesian machine learning with biomedical applications,", main lecturer prof. David Dunson, Department of Statistical Science, Duke University, NC USA.

Visiting

Feb. 2024 May 2024	National University of Singapore – Yong Loo Lin School of Medicine, Singapore
Feb. 2022	National University of Singapore – Yong Loo Lin School of Medicine, Singapore
Aug. 2018	"University of California Irvine", Department of Statistics – Irvine, Orange County, CA (U.S.A.).
May. 2018	"University College London", Department of Statistics – London (UK).
Oct. 2016	"Universidade Federal de Minas Gerais", Instituto de Ciências Exatas, Departamento de Estatística. Belo Horizonte (Brazil).
Jun. 2014	"Rice University", Department of Statistics at Rice University, Houston, TX (U.S.A.).
Mar. 2014	"Universidade Federal de Minas Gerais", Instituto de Ciências Exatas, Departamento de Estatística. Belo Horizonte (Brazil).
Feb. 2013	"Departamento de Estatística", Instituto de Matemática e Estatística, Universidade de São Paulo. São Paulo (Brazil).
Oct. 2013	"Institute of Epidemiology and Preventive Medicine", College of Public Health, National Taiwan University. Taipei (Taiwan).
Sept. 2012	"Institute of Epidemiology and Preventive Medicine", College of Public Health, National Taiwan University. Taipei (Taiwan).

AY 2004/05 "Visiting scholar" Math. Department, University of Pennsylvania, Philadelphia, PA (U.S.A.).

Invited Talks at Conference

Jul. 2025 *14^{th} International Conference on Bayesian Nonparametrics* . Department of Biostatistics and the Department of Statistics & Data Science at University of California Los Angeles, United States, on June 23-27th, 2025.

Jan. 2025 *International Conference on Recent Developments in the Techniques of Bayesian Paradigm.* Department of Statistics, Institute of Science, Banaras Hindu University, 06–08 January 2025.

Dec. 2024 *18^{th} International Conference of the ERCIM WG on Computational and Methodological Statistics* (CMStatistics 2024) King's College London, 14-16 December 2024.

Jul. 2024 Interpretable Inference via Principled BNP Approaches in Biomedical Research and Beyond. Long-term research program from 8 Jul 2024 to 2 Aug 2024. Hosted by the Institute for Mathematical Sciences (IMS)

Jul. 2024 Discussant for the invited session "Recent advances in Bayesian clustering for complex data." *International Society for Bayesian Analysis World meeting* 1-7 July 2024, Venice, Italy

Jun. 2024 *Satellite workshop to International Society for Bayesian Analysis (ISBA) world meeting* 25-28 June 2024, Lugano, Switzerland

Dec. 2023 *16^{th} International Conference of the ERCIM WG on Computational and Methodological Statistics* (CMStatistics 2023) 16-18 December 2023, Berlin, Germany

Aug. 2023 *Statistical Methods for Evaluation and Quality: Techniques, Technologies and Trends* (T^3) August 30 - September 1, University "G. d'Annunzio", Pescara Italy

Aug. 2023 *6^{th} International Conference on Econometrics and Statistics* (EcoSta 2023) 1-3 August 2023, Waseda University, Tokyo, Japan

Jun. 2023 Discussant for the contributed session "Bayesian nonparametric methods." *SIS 2023 - Statistical Learning, Sustainability and Impact Evaluation*, June 21-23 2023, University of Ancona, Ancona (Italy)

Mar. 2023 *Conference of the Bayesian Computation Section of the International Society for Bayesian Analysis* (Bayes Comp 2023) 15-17 March 2023, Levi, Finland

Jan. 2023 *Bergamo-Waseda Workshop on Inference for Stochastic Processes and Applications* (BW-WISPA) January 26-28, 2023, Bergamo, Italy

Oct. 2022 *The 13^{th} International Conference on Bayesian Nonparametrics*, Puerto Varas, Chile, October 24-28, 2022.

Jun. 2022 *International Society for Bayesian Analysis World Meeting*, Montreal, Canada June 26th - July 1st, 2022

Jul. 2021 *Conference on reasoning with asymmetric and context-specific graphs*, hosted online by: Baylor University Department of Statistics, July 19-20, 2021

Jun. 2021 *International Society for Bayesian Analysis World Meeting*, online, 28 Jun to 2 Jul, 2021

Jun. 2021 4^{th} *International Conference on Econometrics and Statistics* (EcoSta 2021) 24-26 June 2021, Virtual Conference, HKUST, Hong Kong

Dec. 2019 CMStatistics 2019 – 12^{th} *International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, 14-16 December, UK.

Aug. 2019 62^{nd} *World Statistics Congress of the International Statistical Institute*, Kuala Lumpur 18-23 August, Malesia.

Jun. 2019 Keynote talk at BISP11 – 11^{th} *International Workshop on Bayesian Inference in Stochastic Processes*, Madrid 12-14 June, Spain.

Dec. 2018 CMStatistics 2018 – 11^{th} *International Conference of the ERCIM WG on Computational and Methodological Statistics*, Pisa, 14-16 December, Italy.

Jul. 2018 JSM 2018 – *Joint Statistical Meetings* 28 Jul– 2 Aug, Vancouver, Canada.

Jun. 2018 ISBA 2018 – *International Society for Bayesian Analysis World Meeting*, Edinburgh, United Kingdom.

Jun. 2018 EcoSta 2018 – 2^{nd} *International Conference on Econometrics and Statistics*, Hong Kong.

Dec. 2017 IISA 2017 – the annual conference of the *International Indian Statistical Association*, Hyderabad, India.

Dec. 2017 CMStatistics 2017 – 10^{th} *International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, United Kingdom.

Jul. 2017 I.S.I. 2017 – 62^{th} *World Statistics Congress*, Marracheck, Morocco.

Dec. 2016 CMStatistics 2016 – 9^{th} *International Conference of the ERCIM WG on Computational and Methodological Statistics*, Sevilla, Spain.

Jul. 2016 SIS 2016 – 48^{th} *Scientific Meeting of the Italian Statistical Society*, Salerno, Italy.

Jun. 2016 48èmes *Journées de Statistique de la Société Française de Statistique (SFdS)* Montpellier, France

Dec. 2015 CMStatistics 2015 – 8^{th} *International Conference of the ERCIM WG on Computational and Methodological Statistics*, London, United Kingdom.

Oct. 2015 CLADAG 2015 – 10^{th} *Scientific Meeting of the Classification and Data Analysis Group*, S. Margherita di Pula, Cagliari, Italy.

Jul. 2015 ISI 2015 – 60^{th} *World Statistics Congress*, Rio de Janeiro, Brazil.

Jul. 2015 *International Society for Business and Industrial Statistics, Satellite Conference with Focus on Quality Control and Improvement*, Campinas, Sao Paulo State, Brazil.

Sept. 2014 ENBIS 2014 – 14^{th} *Annual Conference of the European Network for Business and Industrial Statistics*, Linz, Austria.

Jul. 2014 ISBA 2014 – *International Society for Bayesian Analysis World Meeting*, Cancun, Mexico.

Jun. 2014 SIS 2014 – 47^{th} *Scientific Meeting of the Italian Statistical Society*, Cagliari, Italy.

Sept. 2013 ENBIS 2013 – 13^{th} *Annual Conference of the European Network for Business and Industrial Statistics*, Ankara, Turkey.

Jan. 2013 ISBA-IWCBTA – *Regional Meeting and International Workshop/Conference on Bayesian Theory and Applications*, Varanasi, India.

Jun. 2012 ISBA 2012 – *International Society for Bayesian Analysis World Meeting*, Kyoto, Japan.

Sept. 2011 BISP7 – 7^{st} *Workshop on Bayesian Inference in Stochastic Processes*, Getafe, Spain.

Invited Talks

- October 2024 – Department of Economics University of Verona (Italy)
- October 2022 – Department of Statistics University of Florence (Italy)
- January 2020 – Department of Statistics University of Padua (Italy)
- May 2019 – *"Wirtschaftsuniversität Wien", i.e the Vienna University of Economics and Business*, Department of Statistics Vienna (AU).
- July 2016 – *Imperial College – Population Health and Occupational Disease Department*, London (UK).
- May 2015 – *Università Commerciale "L. Bocconi", Dipartimento di Scienze delle Decisioni*, Italia.
- July 2014 – *University of Texas at Austin, Department of Mathematics*, U.S.A.
- September 2013 – *Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University*, Taiwan.
- March 2014 – *Universidade Federal de Minas Gerais, Instituto de Ciências Exatas, Departamento de Estatística*, Brazil.
- December 2012 – *NTUST, National Taiwan University of Science and Technology*, Taiwan.

Publication in refereed Journals

- Beraha, M., Argiento, R., Camerlenghi, F., and Guglielmi, A. (2025). "Bayesian mixture models with repulsive and attractive atoms", *Journal of the Royal Statistical Society Series B: Statistical Methodology*, article qkaf027.
  doi: 10.1093/jrsssb/qkaf027
- Aiello, L., Argiento, R., Finazzi, F., and Paci, L. (2025). "Survival modelling of smartphone trigger data in crowdsourced seismic monitoring: with applications to the 2023 Pazarcik and 2019 Ridgecrest earthquakes", *Journal of the Royal Statistical Society Series A: Statistics in Society*, article qnae148.
  doi: 10.1093/jrsssa/qnae148
- Argiento, R., Filippi-Mazzola, E., and Paci, L. (2024). "Model-Based Clustering of Categorical Data Based on the Hamming Distance", *Journal of the American Statistical Association*, volume 120, issue 550, pp 1178–1188.
  doi: 10.1080/01621459.2024.2402568
- Poli G., Argiento, R., Amedei, A., Stingo, FC. (2024) "High-dimensional Bayesian semi-parametric models for small samples: a principled approach to the analysis of cytokine expression data". *Biometrical Journal*, 66(8), e70000.
  doi: 10.1002/bimj.70000
- Argiento, R., Corradin, R., Guglielmi, A, Lanzarone (2024) "Clustering blood donors via mixtures of product partition models with covariates", *Biometrics*, Biometrics, volume 80, issue 1.
  doi: 10.1093/biomtc/ujad021
- Pedone, M., Argiento, R., Stingo, FC (2024) "Personalized Treatment Selection via Product Partition Models with Covariates", *Biometrics*, Biometrics, volume 80, issue 1.
  doi: 10.1093/biomtc/ujad003
  Second runner-up for Matteo Pedone's submission to the *2024 BioPharm Junior Researcher Paper Competition.*

- Colombi, A., Argiento, R., Paci, L. and Pini, A. (2024). "Learning Block Structured Graphs in Gaussian Graphical Models", *Journal of Computational and Graphical Statistics*, volume 33, issue 1, pp 152-165. doi: 10.1080/10618600.2023.2210184

- Matechou, E., and Argiento, R. (2023). "Capture-recapture models with heterogeneous temporary emigration", *Journal of the American Statistical Association*, volume 118, issue 541, pp 56–69. doi: 10.1080/01621459.2022.2123332

- Cremaschi, A., Argiento, R., De Iorio, M., Shirong, C. Chong, Y.C., Meaney M.J., Kee, M.Z.L (2023). "Seemingly Unrelated Multi-State processes: a Bayesian semiparametric approach". *Bayesian Analysis*. volume 18, issue 3, pp 753-775 doi: 10.1214/22-BA1326

- Dolmeta, P., Argiento, R., Montagna, S. (2023). "Bayesian GARCH Modeling of Functional Sports Data". *Statistical Methods & Applications*. volume 32, pp 401-423 doi: 10.1007/s10260-022-00656-z

- Berloco, C., Argiento, R., and Montagna, S. (2023). "Forecasting short-term defaults of firms in a commercial network via Bayesian spatial and spatio-temporal methods", *International Journal of Forecasting*, volume 39, issue 3, pp 1065–1077. doi: 10.1016/j.ijforecast.2022.05.003

- Argiento, R., De Iorio, M. (2022). "Is infinity that far? A Bayesian nonparametric perspective of finite mixture models". *Annals of Statistics*. volume 50, issue 5, pp 2641-2663. doi: 10.1214/22-AOS2201

- Codazzi, L., Colombi. A., Gianella, M., Argiento, R., Paci, L., Pini, A. (2022). "Gaussian graphical modelling for spectrometric data analysis" *Computational Statistics & Data Analysis*.volume 174 pp 107416. doi: 10.1016/j.csda.2021.107416.

- Beraha, M., Argiento, R., Møller, J., Guglielmi, A. (2022). "MCMC computations for Bayesian mixture models using repulsive point processes". *Journal of Computational and Graphical Statistics, Latest Articles*, volume 31, issue 2, pp 422-435. doi: 10.1080/10618600.2021.2000424.

- Lopes de Oliveira, G., Argiento, R., Loschi, R.H., Assunção, R.M., Ruggeri, F., and D'Elia Branco, M. (2022). "Bias correction in clustered underreported data", *Bayesian Analysis*, volume 17, issue 1, pp 95–126. doi: 10.1214/20-BA1244

- Argiento, R., Cremaschi, A., Vannucci, M. (2020) "Hierarchical Normalized Completely Random Measures to Cluster Grouped Data", *Journal of American Statistical Association – Theory and Methods*. Volume 115 issue 529, pp 318-333. doi: 10.1080/01621459.2019.1594833

- Montagna, S, Orani, V., Argiento, R. (2021) "Bayesian isotonic logistic regression via constrained splines: an application to estimating the serve advantage in professional tennis", *Statistical Methods & Applications. Applications* Volume 30, pages 573–604, doi: 10.1007/s10260-020-00535-5

- Cremaschi, C., Argiento, R., Shoemaker, K., Peterson, C., and Vannucci M. (2019) "A hierarchical nonparametric approach for robust graphical modelling" *Bayesian Analysis*. Volume 14, Number 4, pp. 1271-1301. doi: 10.1214/19-BA1153 The paper received in 2018 the honorable mention for the ISBA – Lindley prize.

- Argiento R., Ruggiero, M. (2018). "Computational challenges and temporal dependence in Bayesian nonparametric models", *Statistical Methods and Applications*, Volume 27, pp 231-238. doi: 10.1007/s10260-017-0397-8

- Wadsworth W.D., Argiento R., Guindani M., Galloway-Pena J., Shelbourne S.A., Vannucci M. (2017). "An integrative Bayesian Dirichlet-multinomial regression model for the analysis of taxonomic abundances in microbiome data", *BMC Bioinformatics*, Volume 18, pp 1-12.
doi: 10.1186/s12859-017-1516-0

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- Gardella, J., Casa, A., Argiento, R., and Pini, A. (2025). *Bayesian Blended Landmark Model for Alignment of Functional Data*. In Dibella, E., Gioia, V., Lagazio, C., and Zaccarin, S. (Eds), *Statistics for Innovation III. SIS 2025, Short Papers, Contributed Sessions 2*, Italian Statistical Society Series on Advances in Statistics. Conference date: June 16–18, 2025. Published by Springer. ISBN 978-3-031-95994-3.

- Rota, L., Argiento, R., and Cameletti, M. (2025). *Modeling Regional Obesity Rates in Italy Through Bayesian Beta Regression*. In Dibella, E., Gioia, V., Lagazio, C., and Zaccarin, S. (Eds), *Statistics for Innovation IV. SIS 2025, Short Papers, Contributed Sessions 3*, Italian Statistical Society Series on Advances in Statistics. Conference date: June 16–18, 2025. Published by Springer. ISBN 978-3-031-96032-1.

- Argiento, R., Colombi, A., Modotti, L., Montagna, S. (2023) *Clustering athlete performances in track and field sports*. In Bucci, A., Cartone, A., Evangelista, A., Marletta, A. (Eds). Book of Short Papers IES 2023, pp 23-28. Published by Edizioni il Viandante. ISBN 979-12-803-3369-8

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Services

Adviser of Ph.D. Thesis and Postdoc Projects

- Since 2022, Ph.D. supervisor of Alessandro Colombi for the Ph.D. in Economia, Statistica e Data Science - ECOSTAT, University of Milano Bicocca.
- In 2022, supervisor of Dr. Federico Panero for the Scholarship Grant "Product Partition Models with covariates for Precise Medicine".
- External examiner – Ph.D. in Statistics, Candidate Dr. Daria Bystrova (2023). Inria centre at the University Grenoble Alpes.
- Since 2021, Ph.D. Co-supervisor of Luca Aiello for the PhD in Economia, Statistica e Data Science - ECOSTAT, University of Milano Bicocca.
- From 2018 to 2019, postdoc supervisor of Alessandro Lanteri. Project "Dependent Nonparametric priors for microbiome studies". Postdoctoral fellow founded by the University of Torino and Collegio Carlo Alberto.
- Ph.D. supervisor of Claudia Berloco (2021). Project "Early warning system for default events detection, a Bayesian approach". Industrial Ph.D. Program in *Modeling and Data Science*, University of Torino.
- Ph.D. co-supervisor of Ilaria Bianchini (2018). Project "Modeling and computational aspects of dependent completely random measures in Bayesian nonparametric statistics". Ph.D. in *Mathematical Models and Methods in Engineering,* Polytechnic of Milano.
- External examiner – Ph.D. in Statistics candidate Dr. William Barcella (2017). University College London.
- Ph.D. co-supervisor of Inad Nawajah (2014). Project "Bayesian analysis of Home Care longitudinal data". Ph.D. in *Mathematical Models and Methods in Engineering,* Polytechnic of Milano.
- Since 2010, advisors of around 30 Master Thesis at the University of Bergamo, Polytechnic of Milano, University of Torino, and Università Cattolica del Sacro Cuore, Milano
- Since 2019, advisor of around 20 Undergraduate Thesis at the University of Bergamo and Università Cattolica del Sacro Cuore, Milano.

board membership

- Since 2023 Deputy director of the Department of Economics – Università degli Studi di Bergamo

- 2023-2024 Head of the committee to design the Bachelor degree in Data Analytics, Economia e Tecnologie Digitali (Data Analytics, Economics and Digital Technologies) at Università degli Studi di Bergamo
- 2023-2024 Secretary of the Bayesian nonparametric section of the International Society for Bayesian Analysis (ISBA)
- From 2019 to 2020, member of the working group to design the M.Sc. Data Analytics for Business (DAB), at Università Cattolica del Sacro Cuore, Milano
- From 2016 to 2020 review editors of *The Journal of Data Mining & Digital Humanities*. https://jdmdh.episciences.org/
- Fron 2017 to 2019 Member of the Internship and Orientation Committee (Comm. Stage e Orientamento) for the M.Sc in Stochastics and Data Science – University of Torino.
- Since 2019 Member of the academic board of the *in Economics, Statistics and Data Science*, Bicocca University - Milano.
- From 2017 to 2019 Member of the academic board of the *Ph.D. program in Modeling and Data Science*, University of Torino.
- From 2014 to 2017, member of the academic board of the *Ph.D. program in Statistics and Mathematical Finance*, Bicocca University Milano.
- Since 2014, Executive director of the *Applied Bayesian Statistical School*. http://web.mi.imati.cnr.it/conferences/abs19/past_editions.htm
- From 2014 to 2019, member of the *BAyesian Young Statisticians Meeting* board. http://www.baysm.org/

Organization of Scientific Events

- In 2024, chair of the Scientific Committee for the second SIS-Bayes Workshop, the official meeting of the Bayesian group of the Italian Statistical Society.
- In 2024, chair of the Scientific Committee of the 3rd Bayesian Nonparametrics (BNP) Networking Workshop to be held from 30 Jul to 2 Aug 2024 in Singapore
- In 2024, member of the Scientific Committee for the 52^{nd} Scientific Meeting of the Italian Statistical Society, University of Bari Aldo Moro Bari, Italy, June 17-20, 2024
- In 2023, member of the Scientific committee of the Bergamo-Waseda Workshop on Inference for Stochastic Processes and Applications. Bergamo (Italy), January 26-28, 2023
- In 2023, co-chair of the second Bergamo Workshop in Econometrics and Statistics (BWES). Bergamo (Italy) 7-8 September 2023.
- In 2022, organizer of the invited session "Bayesian analysis for functional data" for the International Society for Bayesian Analysis World Meeting (ISBA2022). June 26th - July 1st, Montreal, Canada
- In 2022, organizer Session "Dependency in Bayesian mixture models and beyond" for CMStatistics2022 (ERCIM 2022). King's College London, 17-19 December 2022
- In 2022, co-chair of the first Bergamo Workshop in Econometrics and Statistics (BWES). Bergamo (Italy) 15-16 September 2022.
- From 2020 to 2022, member of the Scientific Programme Committee of CMStatistics, the International Conference of the ERCIM WG on Computational and Methodological Statistics.

- From 2016 to 2021, Organizer of three-session track "Bayesian semi- and nonparametric modelling" for CMStatistics, the International Conference of the ERCIM WG on Computational and Methodological Statistics. Joint with B. Nipoti (Bicocca University) and A. Canale (University of Padova): online 19-21 Dec 2020; London, UK Dec 14-16 2019. Joint with M. Ruggiero (University of Torino) and Li Ma (Duke University): Pisa, Italy 14-16 Dec 2018; London, UK (16-18 Dec 2017); Seville, Spain (9-11 Dec 2016).
- In 2018, the organizer of the Contributed Member Session "Modelling temporal dependence in Bayesian nonparametrics". ISBA 2018 Edinburgh (UK), 24-29 June 2018
- Program chair of the fifth *BAyesian Young Statisticians Meeting* to be held online from 1-3 September 2021.
- Senior member of the board of the fourth *BAyesian Young Statisticians Meeting* – Warwick 2-3 July 2018.
- Program Chair of the third *BAyesian Young Statisticians Meeting* – Florence in 19-21 June 2016.
- From 2013 to 2016 treasurer of IS-ISBA the "ISBA Section on Industrial Statistics".
- From 2012 to 2020 member the organizing committee of the *Applied Bayesian Statistics School*.

Editorial Activities

- Since 2024, Associate Editor of *Statistics and Computing* - Springer
- Referee – Annals of Statistics, Journal of the American Statistical Association, Journal of Royal Statistical Associations Ser. A, B and C., Environmetrics, Bayesian Analysis, Biometrical Journal, Biometrics, Communications in Statistics, Computational Statistics and Data Analysis, Electronic Journal of Statistics, European Transactions on Electrical Power, IEEE Robotics and Automation Letters, IEEE Transactions on Power Systems, Journal of Computational and Graphical Statistics, Statistical Science, Statistics and Computing.

Prizes

- *2024 ISBA-BioPharm Junior Researcher Paper Competition*: Second runner-up for Matteo Pedone's submission. Paper: Pedone, M., Argiento, R., & Stingo, F. C. (2024). "Personalized treatment selection via product partition models with covariates." *Biometrics*, 80(1), ujad003.
- *2018 ISBA – Lindley Prize* honorable mention for the paper Cremaschi, A., Argiento, R., Shoemaker, K., Peterson, C., & Vannucci, M. (2019). Hierarchical normalized completely random measures for robust graphical modeling. *Bayesian analysis*, 14(4), 1271.

Scientific Societies membership

- ISBA "International Society for Bayesian Analysis".
  https://bayesian.org/
- SIS "Società Italiana di Statistica".
  https://www.sis-statistica.it/
- ENBIS "European Network for Business and Industrial Statistics".
  https://enbis.org/

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