

CURRICULUM VITAE et STUDIORUM

Laura Maria Sangalli

Born on 12 January 1979 in Pavia, Italy. Italian citizen. Married, two children.

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POSITIONS

2015/03 - present Associate Professor, MOX Laboratory for Modeling and Scientific Computing, Dipartimento di Matematica, Politecnico di Milano, Italy.

National Full Professor Qualification in Statistics (Abilitazione Scientifica Nazionale 2016, idoneità I fascia, settore 13/D1 - Statistica).

2014/06 - 2015/03 Associate Professor tenure track in Statistics (Ricercatore Senior), MOX, Dipartimento di Matematica, Politecnico di Milano.

2010/06 - 2014/06 Assistant Professor in Statistics (Ricercatore Junior), MOX, Dipartimento di Matematica, Politecnico di Milano.

National Associate Professor Qualification in Statistics (Abilitazione Scientifica Nazionale 2012, idoneità II fascia, settore 13/D1 - Statistica).

2006/06 - 2010/06 Postdoc, MOX, Dipartimento di Matematica, Politecnico di Milano.

2006/03 - 2006/05 Postdoc, Department of Mathematics and Statistics, Lancaster University, UK.

EDUCATION

2002/11 - 2006/02 PhD in Mathematics and Statistics, Dipartimento di Matematica, Università degli Studi di Pavia, Italy. Thesis: "Random probability measures and their applications to Bayesian statistics". Supervisor: Prof. Eugenio Regazzini.

2005/03 - 2005/10 *MARIE-CURIE* Programme, 6th Framework Program European Union; Department of Mathematics and Statistics, Lancaster University. Research project: "Computer intensive methods in applied statistical modelling". Supervisor: Prof. Gareth O. Roberts.

1998/09 - 2002/07 Laurea cum laude (Master degree, first-class honours) in Economics, Università degli Studi di Pavia. Thesis: "Analisi bayesiana di modelli mistura". Supervisor: Prof. Guido Consonni.

CAREER BREAKS

2019-2020 Long-term illness (more than 1 year).

2014 - 2018 Maternity and parental leaves (more than 14 months).

EDITORIAL AND REFEREEING ACTIVITY

- 2016 - present** *Co-Editor in Chief* (with Yimin Xiao) of *Statistics and Probability Letters*.
- 2015 - present** Associate Editor of the *International Journal of Biostatistics*.
- 2015 - present** Associate Editor of *Stat*.
- 2017 - 2018** Editor of the Special Issue of *Statistics and Probability Letters* on “The role of Statistics in the era of big data”, Vol. 136, pp. 1–170.
- 2016 - 2017** Guest Editor of the Special Section of *Statistics and Econometrics* on “Functional data analysis”, Vol. 1, pp. 99–200.
- 2014** Guest Editor of the Special Section of the *Electronic Journal of Statistics* on “Statistics of Time Warpings and Phase Variations”, Vol. 8, No. 2, pp. 1697–1906.
- 2009 - present** Referee for: *Annals of Statistics*; *Journal of the American Statistical Association*; *Journal of the Royal Statistical Society Series B*; *Journal of the Royal Statistical Society Series C*; *Biometrika*; *Journal of Multivariate Analysis*; *Scandinavian Journal of Statistics*; *Environmetrics*; *Journal of Computational and Graphical Statistics*; *Computational Statistics and Data Analysis*; *Stochastic Environmental Research and Risk Assessment*; *Bayesian Analysis*; *Psychometrika*; *Atmospheric Measurement Techniques*; *Springer Series Contribution to Statistics*.
- 2013 - present** Referee of PhD thesis.
- 2009** Co-Editor of the conference proceedings of S.Co.2009.

RESEARCH GRANTS AND AWARDS

- 2010/12 - 2014/07** *Starting grant FIRB Futuro in Ricerca*, funded by MIUR Ministero dell’Istruzione dell’Università e della Ricerca (264 900 euro, total with co-funding: 327 000 euro). Research project: "Advanced statistical and numerical methods for the analysis of high dimensional functional data in life sciences and engineering" (short title: SNAPLE Statistical and Numerical methods for the Analysis of Problems in Life sciences and Engineering)
<http://mox.polimi.it/users/sangalli/firbSNAPLE.html>
One in 105 projects selected out of 3792 proposals in all fields of sciences and humanities (*success rate 2.7%*).
Principal investigator: Laura M. Sangalli. Research team: Laura M. Sangalli (funded by SNAPLE 2013/06 - 2014/06), John A. D. Aston (CRiSM, University of Warwick, UK), Simona Perotto, Bree Ettinger (PostDoc funded by SNAPLE 2011/06 - 2013/06), Laura Azzimonti (PostDoc funded by SNAPLE 2013/01 - 2014/01).
- 2016/11 - 2020/11** Member of the proponent team of the ICT COST Action "Vector Boson Scattering Coordination and Action Network", EU Framework Programme Horizon 2020. EU funding: about 450 000 euro.
- 2015/03 - 2019/03** Member of the proponent team and Management Committee Substitute of the ICT COST Action CRoNoS: Computationally intensive methods for the Robust analysis of Non-Standard data, EU Framework Programme Horizon 2020. EU funding: about 680 000 euro.
- 2013** The paper Sangalli et al., Spatial spline regression models, *Journal of the Royal Statistical Society Ser. B*, 2013, 75, 681-703, is an *highly cited paper* in its field, according to Web of Science: it received enough citations to place it in the top 1% of the academic field of Mathematics based on a highly cited threshold for the field and publication year. This paper has also been selected among all those published by the *Journal of the Royal Statistical Society Ser. B* in 2013, and I have been invited to present it at the Royal Statistical Society International Conference (2013, Newcastle, UK) in the invited session organized by the Journal.
- 2010/06 - 2013/06** Research program Dote Ricercatore, Politecnico di Milano - Regione Lombardia. Research project: “Functional data analysis for life sciences”. This research program funded 3 years of my assistant professorship (about 150 000 euro).

2007 - present Various visiting research fellowships and grants (see VISITING).

2010, 2012 and 2013 Young researcher grants, Dipartimento di Matematica, Politecnico di Milano (awarded on the base of publication records).

2005 and 2004 Research prizes for PhD students of the Istituto Universitario di Studi Superiori di Pavia.

2005/03 - 2005/08 *MARIE-CURIE* visiting PhD scholarship, Lancaster University.

2002/11 - 2005/10 Italian PhD scholarship.

VISITING (*long visits funded by host institutions*)

2011/01 - 2011/02 SAMSI Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, North Carolina, USA. Funded by SAMSI. One month. Invited by Steve Marron.

2010/04 - 2010/07 Department of Mathematics and Statistics, McGill University, Montreal, and School of Mathematics and Statistics, Carleton University, Ottawa, Canada. Funded by McGill University. Four months. Invited by James Ramsay.

2009/01 CRiSM Center for Research in Statistical Methodology, Department of Statistics, University of Warwick, UK. Funded by the CRiSM. Three weeks. Invited by Gareth Roberts.

2007/09 CRiSM. Funded by the CRiSM. Three weeks. Invited by Gareth Roberts.

2005/03 - 2005/12 Department of Mathematics and Statistics, Lancaster University. Ten months.

COMMISSION OF TRUST

2012 Panelist for FIRB Futuro in Ricerca 2012 starting grants, MIUR Ministero dell'Istruzione dell'Università e della Ricerca; Panel: Physical Sciences and Engineering (PE1 Mathematics, PE6 Computer science and informatics, PE7 Systems and communication engineering).

2016 - present Evaluator for the Academy of Finland for the field of mathematical statistics.

INSTITUTIONAL RESPONSIBILITIES (SELECTED)

2017 - present Member of the advisory board of the PhD program in Mathematical Models and Methods in Engineering, Politecnico di Milano.

2019 - present Chair of the graduations for the Bachelor and Master in Mathematical Engineering, Politecnico di Milano (managing thesis discussions and graduation ceremony for about 180 B.Sc. and 100 M.Sc. students per year).

2018 - 2019 Member of the committee for the selection of an Associate Professor (Sapienza - University of Rome)

2010 - present Member of the committees for the selection of several Post-Doctoral Researcher positions in Statistics (Department of Mathematics, Politecnico di Milano).

2007 - present Organizer of the seminars in applied statistics, Department of Mathematics, Politecnico di Milano.

OTHER SCIENTIFIC ACTIVITIES (SELECTED)

- 2016 - 2020** Elected member of the European Regional Committee of the Bernoulli Society.
- 2020 - 2021** Elected member of GRASPA, the Research Group of the Italian Statistical Society for Statistical Applications to Environmental Problems.
- 2015 - 2019** Management Committee Substitute of the ICT COST Action “CRoNoS: Computationally-intensive methods for the robust analysis of non-standard data”, EU Framework Programme Horizon 2020; Coordinator: Prof. E. Kontoghiorghes.
- 2013 - 2020** Chair of the Specialized Research Team “CODA - Complex data structures and Object Data Analysis”, ERCIM Working Group on Computational and Methodological Statistics, the European Research Consortium for Informatics and Mathematics.

CONFERENCE ORGANIZATION

- 2019 - 2021** Member of the *Scientific Committee* of TIES 2021, Conference of the International Environmetrics Society, London, UK.
- 2018 - 2021** Member of the *Scientific Committee* of IWSM 2020 and 2021, the International Workshop on Statistical Modelling, Bilbao, Spain.
- 2019** Member of the *Scientific Committee* of GRASPA 2019, Biannual Meeting of the Research Group for Statistical Application to Environmental Problems, and Regional Meeting of the International Environmetrics Society TIES, Pescara, Italy.
- 2018** Member of the *Scientific Committee* of the 23rd International Conference in Computational Statistics, COMPSTAT 2018, Iasi, Romania.
- 2017** Member of the *Scientific Committee* of the European Meeting of Statisticians 2017, 31st edition, Helsinki, Finland. The committee is composed by only 6 international researchers.
- 2017** *Organizer* (with Jiguo Cao, Giles Hooker, James Ramsay and Fang Yao) of the workshop “Distributed Data for Dynamics and Manifolds”; hosted and funded by Banth International Research Station, Canada and Casa Matemática Oaxaca, Mexico.
- 2017** Member of the *Scientific Committee* of the conference of The International Environmetrics Society, TIES 2017, Bergamo, Italy.
- 2017** Member of the *Scientific Committee* of the Meeting of the Italian Statistical Society 2017, Florence, Italy.
- 2016** Member of the *Scientific Committee* of “CMStatistics2016, 9th International Conference of the ERCIM working group on Computational and Methodological Statistics”; Seville, Spain.
- 2014** Member of the *Scientific Committee* of “ERCIM2014, 7th International Conference of the ERCIM working group on Computing and Statistics”; Pisa, Italy. 1300 participants.
- 2014** *Organizer* of “FIRB SNAPLE closing workshop”; Politecnico di Milano.

- 2014** Member of the *Organizing Committee* of “IWFOS2014, 3rd International Workshop on Functional and Operatorial Statistics”; Università del Piemonte Orientale, Novara, Italy.
- 2013** Member of the *Organizing Committee* of “S.Co.2013, Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction”; Politecnico di Milano.
- 2013** Member of the *Scientific and Organizing Committees* of the Competition and Bar-Camp on “Technology foresight and statistics for the future”; Politecnico di Milano.
- 2012** *Organizer* (with Steve Marron, James Ramsay and Anuj Srivastava) of the workshop “Statistics of Time Warpings and Phase Variations”; MBI Mathematical Biosciences Institute, The Ohio State University, OH, USA. Workshop funded by MBI.
- 2011** *Organizer* of “SNAPLE kickoff meeting”; First one-day workshop FIRB Futuro in Ricerca research project SNAPLE, Politecnico di Milano.
- 2009** Member of the *Organizing Committee* of “S.Co.2009, 6th Conference on Complex Data Modeling and Computationally Intensive Statistical Methods for Estimation and Prediction”; Politecnico di Milano.
- 2009 - present** Organizer of several Mini-Symposia and Invited Sessions in various national and international conferences (CMStatistics 2018, CMStatistics 2015, ERCIM 2013, SIMAI 2012, SIS 2012, SIAM UQ 2012).

KEYNOTE AND INVITED PLENARY LONG LECTURES (*40 minutes or longer*) IN INTERNATIONAL CONFERENCES AND WORKSHOPS (*with participation funded by organizers*)

- 2021** Sixth Spatial Statistics conference, 2021, Boulder, CO, USA. *Keynote talk.*
- 2019** Seventh Stu Hunter Research Conference, 2019, Varese, Italy; *my Keynote lecture was followed by the speeches of two discussants and by 1 hour of floor discussions;* J. Stuart Hunter is one of the most highly decorated statisticians.
- 2017** 32nd International Workshop on Statistical Modelling, IWSM 2017, Groningen, Netherlands. *Keynote talk.*
- 2016** 37th Conference on Applied Statistics in Ireland, CASI 2016, Limerick, Ireland. *Keynote talk.*
- 2012** Barcelona BioMed Conference 2012, Spain. *Keynote talk.*
- 2012** Workshop on High dimensional and dependent functional data, 2012, Bristol, UK. *Keynote talk.*

I also received invitations to give the following Keynote Plenary lectures, that I had to decline:

- 2019** 21st European Young Statisticians Meeting, EYSM 2019, Belgrade, Serbia.
- 2018** Workshop on Advances in Functional Data Analysis; Rennes, France.
- 2017** 4th International Workshop on Functional and Operatorial Statistics, IWFOS 2017, Coruña, Spain; *this is the largest conference on functional data analysis, my main research field.*

2018 International workshop on Functional Data Analysis, 2018, Iasi, Romania.

2016 International workshop on Functional Data Analysis, 2016, Oviedo, Spain (about 100 participants).

OTHER INVITED TALKS AT INTERNATIONAL CONFERENCES AND WORKSHOPS (SELECTED)

I received more than 150 personal invitations to give seminars at international meetings, mainly related to my expertise in functional data analysis. In several cases, my travel and subsidence have been funded by the organizers. I only list a selection of those I was able to accept.

2020 Workshop on Statistics meets Machine Learning, 2020, Oberwolfach, Germany. *Funded by Oberwolfach.*

2018 CMStatistics 2018, 11th International Conference of the ERCIM working group on Computing and Statistics; Pisa, Italy. *Invited talk.*

2018 ISNPS 2018, biannual Conference of the International Society of Non-Parametric Statistics, Salerno, Italy. *Invited talk.*

2017 ENAR 2017 Spring Meeting, Washington, USA. *Invited talk.*

2016 CMStatistics 2016, 9th International Conference of the ERCIM working group on Computing and Statistics; Seville, Spain. *Invited talk.*

2016 SIMAI 2016, congress of the Italian Society of Industrial and Applied Mathematics, Milano. *Invited talk.*

2016 Workshop on functional data analysis: recent progress and new perspectives; Les Diablerets, Switzerland. *Invited talk. Funded by École Polytechnique Fédérale de Lausanne.*

2016 SIAM Conference on Uncertainty Quantification; Lausanne, Switzerland. *Invited talk.*

2015 CMStatistics 2015, 8th International Conference of the ERCIM working group on Computing and Statistics; London, UK. *Invited talk.*

2015 Eighth International Workshop on Simulation; Wien, Austria. *Invited talk.*

2015 ISNPS 2015, International Society of NonParametric Statistics, Congress on Biosciences, Medicine and Novel Nonparametric Methods; Graz, Austria. *Invited talk.*

2015 Workshop on Frontiers in Functional Data Analysis; BIRS Banff International Research Station for Mathematical Innovation and Discovery, Canada. *Funded by BIRS.*

2015 GRASPA 2015, biannual meeting of the Research Group for Statistical Application to Environmental Problems; Bari, Italy. *Invited talk.*

2014 ERCIM 2014, 7th International Conference of the ERCIM working group on Computing and Statistics; Pisa, Italy. *Invited talk.*

2014 SIS 2014, Scientific Meeting, Società Italiana di Statistica; Cagliari, Italy. *Invited talk.*

- 2014** Workshop on Spatial Statistics for Environmental and Energy Challenges; KAUST, Saudi Arabia. *Invited talk. Funded by KAUST.*
- 2013** ERCIM 2013, 6th International Conference of the ERCIM working group on Computing and Statistics; London, UK. *Invited talk.*
- 2013** RSS Royal Statistical Society International Conference; University of Newcastle, UK. *Selected paper for the Journal of the Royal Statistical Society invited session (for Ser. B Statistical Methodology). Invited talk. Funded by School of Maths & Stats, Newcastle University, UK.*
- 2013** SIS 2013, Società Italiana di Statistica; Università degli Studi di Brescia. *Invited talk.*
- 2012** ERCIM 2012, 5th International Conference of the ERCIM working group on Computing and Statistics; Oviedo, Spain. *Invited talk.*
- 2012** Workshop on Statistics of Time Warpings and Phase Variations; MBI Mathematical Biosciences Institute, The Ohio State University, OH, USA. *Invited talk. Funded by MBI.*
- 2012** ISCB 33rd Annual Conference of the International Society for Clinical Biostatistics; Bergen, Norway. *Invited talk. Funded by the International Society for Clinical Biostatistics.*
- 2012** Joint Meeting of yBIS International Young Business and Industrial Statisticians and jSPE Young Portuguese Statisticians, Lisbon, Portugal. *Invited talk.*
- 2012** SIMAI 2012, Società Italiana di Matematica Applicata ed Industriale; Politecnico di Torino, Italy. *Invited talk.*
- 2012** SIS 2012, Società Italiana di Statistica; Sapienza Università di Roma, Italy. *Invited talk.*
- 2012** SIAM Conference on Uncertainty Quantification; Raleigh, North Carolina. *Invited talk.*
- 2012** TIES 2012, 22nd Annual Conference of The International Environmetrics Society; Advanced Institute of Mathematics, University of Hyderabad, India. *Invited talk.*
- 2011** ERCIM 2011, 4th International Conference of the ERCIM working group on Computing and Statistics; University of London, UK. *Invited talk.*
- 2011** SIAM Conference on Computational Science and Engineering; Reno, Nevada. *Invited talk.*
- 2010** JSM 2010 Joint Statistical Meetings; Vancouver, Canada. *Invited talk.*
- 2010** Workshop on Functional Data Analysis: Future Directions; BIRS Banff International Research Station for Mathematical Innovation and Discovery, Canada. *Funded by BIRS.*
- 2009** SFC 2009, XVIth Joint Meeting of the French Society of Classification; Grenoble, France. *Invited talk.*
- 2008** SIMAI 2008, Società Italiana di Matematica Applicata ed Industriale; Roma, Italy. *Invited talk. Young researcher travel support.*

2008 MCMSki 2008: Markov chain Monte Carlo in Theory and Practice; IMS and ISBA international meeting, Bormio, Italy. *I presented a poster that was awarded among the best poster presentations; Young researcher travel support.*

INVITED SEMINARS IN UNIVERSITIES AND RESEARCH CENTERS (*funded by host institutions*)

I received more than 40 invitations to give seminars at universities and research centers. The following are those I was able to accept.

2018/12 Department of Atmospheric and Cryospheric Sciences, University of Innsbruck, Innsbruck, Austria.

2017/10 Department of Mathematics, Otto-von-Guericke University, Magdeburg, Germany.

2017/04 Dipartimento di Scienze Statistiche, Università degli Studi di Bologna, Bologna, Italy.

2016/11 Université Libre de Bruxelles, Bruxelles, Belgium.

2016/10 Bonn University, Bonn, Germany.

2016/07 Departamento de Estadística, Universidad Carlos III de Madrid, Madrid, Spain.

2016/04 Aalto University, Aalto, Finland.

2014/02 Dipartimento di Scienze Statistiche, Università Cattolica del Sacro Cuore, Milano, Italy.

2013/11 Dipartimento di Scienze Statistiche, Sapienza Università di Roma, Italy.

2013/10 Department of Mathematics and Statistics, University of Limerick, Ireland.

2013/10 Department of Decision Sciences, Università Bocconi, Milano.

2013/09 School of Maths & Stats, Newcastle University, UK.

2013/04 School of Mathematics and Statistics, University of Glasgow, UK.

2013/02 Università Cattolica del Sacro Cuore, Roma, Italy.

2012/05 EPFL École Polytechnique Fédérale de Lausanne, Switzerland.

2012/05 Seminari di Cultura Matematica; Politecnico di Milano.

2011/01 SAMSI Statistical and Applied Mathematical Sciences Institute, North Carolina, USA.

2010/03 Institut for Matematiske Fag, Aalborg Universitet, Denmark.

2010/03 Dipartimento di Economia Politica e Metodi Quantitativi, Università degli Studi di Pavia.

2010/01 Dipartimento di Scienze Statistiche, Università degli Studi di Padova, Italy.

2009/01 Department of Statistics, University of Warwick, UK.

2008/04 Dipartimento di Economia Finanza e Statistica, Università degli Studi di Perugia, Italy.

2007/09 Department of Statistics, University of Warwick, UK.

2006/03 European Commission, Directorate General Joint Research Center, Ispra, Italy.

2006/02 Dipartimento di Matematica, Politecnico di Milano.

2005/03 Department of Mathematic and Statistics, Lancaster University, UK.

SUPERVISION AND CO-SUPERVISION OF POST-DOC, PHD AND MASTER STUDENTS

3 Post-Doctoral fellows

- Eleonora Arnone, 2017/12 - present.
- Laura Azzimonti, 2013/01 - 2014/01, *funded by my starting grant project FIRB SNAPLE*; currently researcher at IDSIA Institute of artificial intelligence, Switzerland.
- Bree Ettinger, 2011/06 - 2013/06, *funded by my starting grant project FIRB SNAPLE*; currently lecturer and co-director of undergraduate studies at Emory University, Atlanta, USA.

7 PhD students

- Federico Ferraccioli, 2017/11 - present, visiting PhD student from Università degli Studi di Padova, Italy.
- Eleonora Arnone, 2014/10 - 2018/02; currently postdoc at Politecnico di Milano.
- Antonio Elias Fernandez, 2017/04 - 2017/07, visiting PhD student from Universidad Carlos III de Madrid.
- Mara Bernardi, 2013/10 - 2016/10; currently postdoc at SISSA International School for Advanced Studies, Trieste, Italy.
- Marzia Cremona, 2012/10 - 2015/10; currently postdoc at Pennsylvania State University, USA.
- Gabriel Martos Venturini, 2013/09 - 2013/12, visiting PhD student from Universidad Carlos III de Madrid; currently post-doc at Universidad Católica de Chile.
- Laura Azzimonti, 2010/01 - 2013/01; currently researcher at IDSIA Institute of artificial intelligence, Switzerland.

More than 20 Master students

Among these:

- Hugo Lebeau, 2019, visiting student from ENSTA ParisTech;
- Marco Stefanucci, 2015, visiting student from University of Rome, currently postdoctoral fellow at Università degli Studi di Padova, Italy;
- Eardi Lila, 2014, currently PhD student at University of Cambridge;
- Matthieu Wilhelm, 2014, visiting student from École Polytechnique Fédérale de Lausanne, currently postdoctoral fellow at Université de Neuchâtel, Switzerland;
- Mara Bernardi, 2013, currently assistant professor at Politecnico di Milano;
- Davide Pigoli, 2009, currently lecturer at King's College London, UK;
- Valeria Vitelli, 2008, currently associate professor at University of Oslo, Norway.

TEACHING

Lecturer (since 2005), Teaching Assistant (since 2003) and Tutor (since 2001) for several courses in Statistics at undergraduate, graduate, post-graduate and post-doctoral level (*: course held in English). Currently lecturing about 400 students per year.

2018/2019

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano (2 classes).

2017/2018

- Lecturer of “Introduction to functional data analysis”, PhD course, Università degli Studi di Bergamo.

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano.

2016/2017

- Coordinator and lecturer of “Geostatistica”, PhD course, Politecnico di Milano.

- Lecturer of “Introduction to functional data analysis”, course for researchers and PhD students, Consiglio Nazionale delle Ricerche, Milano.

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano (2 classes).

2015/2016

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano (2 classes).

2014/2015

- Lecturer of “Applied Statistics”, graduate course, Politecnico di Milano.

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.

2013/2014

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano (2 classes).

- Lecturer of “Big Data Challenges to Modern Statistics”, 14th Annual Winter School in eScience (for PhD students, post-docs and young researchers), Geilo, Norway.

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.

- Coordinator and lecturer of “Inference for functional data with applications”, PhD course, Politecnico di Milano.

2012/2013

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano.

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.

2011/2012

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano.

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.

2010/2011

- Lecturer of “Statistica”, undergraduate course, Politecnico di Milano.

- Teaching assistant of “Statistica”, undergraduate course, Politecnico di Milano.

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.

2009/2010

- Lecturer of “Introduction to Statistics and Data Analysis”, short course for the Master in Energy Finance, School of Management, Politecnico di Milano.
- Teaching assistant and tutor of “Statistica Applicata”, graduate course, Politecnico di Milano.
- Teaching assistant of “Sequenze temporali ad alta frequenza: Analisi di dati funzionali - Data Stream Mining”, short course for PhD students, post-docs and young researchers, organized by SIS Società Italiana di Statistica; Seconda Università di Napoli, Italy.

2008/2009

- Teaching assistant of “Statistics”, graduate course, Politecnico di Milano.
- Teaching assistant of “Statistica”, undergraduate course, Politecnico di Milano.

2007/2008

- Teaching assistant of “Statistics”, graduate course, Politecnico di Milano.
- Teaching assistant of “Statistica”, undergraduate course, Politecnico di Milano.
- Teaching assistant of “Statistica matematica A”, undergraduate course, Politecnico di Milano.
- Tutor of “Statistica Applicata”, graduate course, Politecnico di Milano.

2006/2007

- Teaching assistant of “Statistica”, undergraduate course, Politecnico di Milano.
- Teaching assistant of “Statistica matematica A”, undergraduate course, Politecnico di Milano.

2005/2006

- Lecturer of “Advanced Likelihood Theory”, *MSc Master in Statistical Science*, Department of Mathematics and Statistics, Lancaster University, UK.

2004/2005

- Teaching assistant of “Probability and Statistics”, post-graduate school “Quantitative Methods for Social and Economic Analysis”, Università degli Studi di Pavia, Istituto Universitario di Studi Superiori di Pavia and Accademia Nazionale dei Lincei.

2003/2004

- Teaching assistant of “Modelli Statistici e Laboratorio Informatico di Statistica”, undergraduate course, Università degli Studi di Pavia.

2001/2002

- Tutor of “Analisi dei Dati”, undergraduate course, Università degli Studi di Pavia.
- Tutor of “Statistica 1”, undergraduate course, Università degli Studi di Pavia.

2001/2002

- Tutor of “Analisi dei Dati”, undergraduate course, Università degli Studi di Pavia.
- Tutor of “Statistica 1”, undergraduate course, Università degli Studi di Pavia.

ACTIVITIES FOR PROMOTING MATHEMATICS AND RESEARCH

2019/04 Open Day, Politecnico di Milano.

- 2017/11** Big Data, ICT4INTEL, Dipartimento delle informazioni per la sicurezza (DIS), Presidenza del Consiglio dei Ministri della Repubblica Italiana.
- 2017/04** Open Day, Politecnico di Milano.
- 2016/06** Summer School, Politecnico di Milano.
- 2016/03** Lecture at the high school Liceo Scientifico Gandini, Lodi, Italia.
- 2015/06** Summer School, Politecnico di Milano.
- 2013/06** Summer School, Politecnico di Milano.
- 2012/10** European Job Day, Regione Lombardia, Milano.
- 2012/06** Summer School, Politecnico di Milano.
- 2011/10** Incontro dei giovani statistici, Giornata Italiana della Statistica; Sapienza Università di Roma.

OTHER SKILLS

- Language skills** English, fluent (spoken and written); French, fluent (spoken and written); Italian, mother tongue.
- Computing skills** Experienced programmer in S-Plus/R, Matlab. Good knowledge of the statistical package SAS.

RESEARCH PROJECTS

- 2010 - 2014** Starting grant project FIRB Futuro in Ricerca project SNAPLE (see RESEARCH GRANTS). *Principal Investigator*.
- 2010 - 2013** Dote Ricercatore, Politecnico di Milano - Regione Lombardia, research project “Functional data analysis for life sciences” (see RESEARCH GRANTS).
- 2013 - 2014** Research Project “Algoritmi numerici e di ottimizzazione per il supporto alle missioni di ricerca e soccorso”, funded by AgustaWestland within the research program “RTO Rapid Tasking Operations” (MIUR - Regione Lombardia). Investigator.
- 2006 - 2009** *AneuRisk* Project, supported by Fondazione Politecnico di Milano and Siemens Medical Solutions Italia; P.I.: Prof. A. Veneziani. Investigator.
- 2006 - 2008** PRIN project “Numerical Approximation of multiscale and multiphysics problems with adaptive methods”, funded by MIUR Ministero dell’Istruzione dell’Università e della Ricerca, scientific coordinators: Prof. Fausto Saleri, Marco Verani. Investigator.
- 2005** Marie Curie Training Site Human Potential Programme “Computer Intensive Methods in Applied Statistical Modelling”, funded by 6th Framework Program European Commission. Investigator.
- 2003 - 2005** PRIN project “Bayesian networks and causal inference: methods and applications”, funded by MIUR Ministero dell’Istruzione dell’Università e della Ricerca, scientific coordinator: Prof. G. Consonni. Investigator.

2002 - 2004 PRIN project “Bayesian nonparametric methods and their applications”, funded by MIUR Ministero dell’Istruzione dell’Università e della Ricerca, scientific coordinator: Prof. E. Regazzini. Investigator.

MAIN INTERNATIONAL COLLABORATIONS

James Ramsay, McGill University, Montreal, Canada: 4 papers co-authored.

Steve Marron, Univ. of North Carolina, NC, USA: 2 papers co-authored.

Anuj Srivastava, Florida State Univ., USA: 2 papers co-authored.

Fabio Nobile, École Polytechnique Fédérale de Lausanne: 2 papers co-authored.

ONGOING SCIENTIFIC COLLABORATIONS

Main national collaborations

- IIT Istituto Italiano di Tecnologia
- IEO Istituto Europeo di Oncologia
- Dipartimento di Scienze Chirurgiche Specialistiche, Università di Milano;
- Chirurgia Vascolare, Fondazione I.R.C.C.S. Ca’ Granda Ospedale Maggiore Policlinico, Milano;
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- CRiSM Center for Research in Statistical Methodology, Dept. of Statistics, University of Warwick, UK;
- Department of Mathematical Sciences, University of Copenhagen, Denmark.

PUBLICATIONS

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