

Address

Department of Mathematics (DIMA), University of Genova
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Education

PhD in Statistics, Department of Statistics, The University of Warwick, UK, 1998
MSc (laurea) in Mathematics, University of Genova, 1993
High School Diploma in Classics, Liceo Classico Mazzini, Genova, 1987

Research interests

Design and analysis of experiments, mathematical and algebraic statistics, statistical modelling and applications

Career

- since 2019 Full professor in Statistics, Department of Mathematics, University of Genova
- 2007-2019 Associate Professor, Department of Mathematics, University of Genova
- 2004-2006 Associate Professor, Department of Mathematics, Politecnico di Torino, Progetto MIUR Rientro dei Cervelli (Brain drain program of Italian Ministry of Education)
- 2001-2007 Lecturer/Associate Professor, Department of Statistics, Warwick (on leave 2004-2006)
- 1999-2001 Post-doctoral fellow at EURANDOM, NL
- 1998-1999 Senior Research Fellow, a joint project of the Depts of Engineering, Statistics, Biology at Warwick
- August 1995-1998 Research Fellow, Department of Statistics, Warwick
- February 1994-July 1995 Research Assistant, Engineering Design Centre, City University, London

Professional activities

2022-current President of the university Consortium IANUA <https://consorzioianua.unige.it/>
2024-current Component of ASN for 13/D1 - Statistics (Italian scientific habilitation committee)
2013-2018/2021-current Component of the Department Board
2019-22 Chair of the bachelor and master degrees offered by DIMA
2007-19 Chair/Vice-chair of the bachelor degree in Statistics, Mathematics and Data Management (SMID)
2017-19 Quality Assurance Manager of DIMA (RAQ DIMA)
2014-19 member of the Quality assurance committee of the Scuola di Scienze MFN, Genova
2016-18/2021-24 member of the Council of the Scuola di Scienze MFN, Genova
since 2012 member of the panel of the PhD program in Mathematics and Applications, Genova
2004-2006 member of the panel of the PhD program in Mathematics and Engineering, Torino

Affiliations

Chartered member di ENBIS, member of executive committee 2000-2002 and pro-tempore secretary 2000-2001
Member of the professional associations INDAM-GNAMPA, RSS, BS, SIS
2012-15/2017-18 Associate fellow at ISSIA-CNR
2007-16 Associate Fellow, Department of Statistics, Warwick

Supervision responsibilities

7 postdocs, 8 PhD (2 co-supervised), more than 50 master and undergraduate theses

Summary of refereed publications

40+ international journals, 1 monograph, 1 edited volume, 11 book chapters, 22+ conference proceedings

Selected publications

- JS Carter, M Leonelli, ER, A Ugolini *Staged trees for discrete longitudinal data* *Metrika* <https://doi.org/10.1007/s00184-024-00987-9>, 2025
- JS Carter, M Leonelli, ER, G Varando *Learning Staged Trees from Incomplete Data* *Proceedings of Machine Learning Research*, Volume 246, 231–252, 2024
- F Carli, E Pesce, ER, F Porro *Combination of Autoregressive Graphical Models and Time Series Bootstrap Methods for Risk Management in Marine Insurance* *Socio-Economic Planning Sciences*, Volume 92, 2024
- E Pesce, F Rapallo, ER, HP Wynn *Generation of all randomizations using circuits* *Annals of the Institute of Statistical Mathematics*, 75, 683–704, 2023
- E Pesce, F Porro, ER *Large datasets, bias and model oriented optimal design of experiments* *Quality and Reliability Engineering International*, 39:2, 532–545, 2022
- F Carli, M Leonelli, ER, G Varando *The R Package stagedtrees for Structural Learning of Stratified Staged Trees* *J. of Stat Software*, 102:6, 1–30, 2022
- M Leonelli, ER, JQ Smith *Coherent combination of probabilistic outputs for group decision making: an algebraic approach*, *OR Spectrum* 42:2, 499–528, 2020
- Fassino, ER, MP Rogantin *Cubature rules and expected value of some complex functions*, *Journal of Algebraic Statistics*, Issue in honor of S E Fienberg, 10:1, 115–127, 2019
- E Pesce, ER, H P Wynn *Experimental design issues in big data. The question of bias*, In: Greselin F, Deldossi L, Bagnato L, Vichi M (eds) *Statistical Learning of Complex Data. CLADAG 2017. Studies in Classification, Data Analysis, and Knowledge Organization*. Springer, Cham, pp 193–20, 2019 - S Barani, ER et al *Temporal scaling of earthquake-moment release and implications for earthquake occurrence probability*, *Scientific Reports* 8:1, 1–11, 2018
- A Bigatti, C Görgen, ER, JQ Smith *Discovery of statistical equivalence classes using computer algebra*, *International Journal of Approximate Reasoning* 95, 167–184, 2018
- M Leonelli, ER, JQ Smith *A symbolic algebra for the computation of expected utilities in multiplicative influence diagrams*, *Annals of Mathematics and Artificial Intelligence* 81:34, 273–313, 2017
- S Massa, ER *Algebraic Representation of Gaussian Markov Combinations*, *Bernoulli* 23:1, 626–644, 2017
- ER, N Rudak, S Kuhnt *Numerical algebraic fan of a design for statistical model building*, *Statistica Sinica*, 26, 1021–1035, 2016
- C Fassino, ER, G Pistone *The algebra of interpolatory cubature formulae for generic nodes*, *Statistics and Computing*, 24:4, 615–632, 2014
- ER, J Q Smith, P Thwaites *Causal analysis with Chain Event Graphs*, *Artificial Intelligence* 174:12-13, 889–909, 2010
- ER *A brief history of algebraic statistics* (opening lecture of the 8th German Open Conference of Probability and Statistics). *Metrika* 69, 397–418, 2009
- M J Chappell, G Margaria, ER, H P Wynn *Differential algebra methods for the study of the structural identifiability of biological rational polynomial models*. *Mathematical Biosciences*, 174, 1–26, 2001
- G Pistone, ER, H P Wynn *Algebraic Statistics*. Chapman and Hall/CRC, Boca Raton, 2000

Other relevant information

- PI in grants and awards funded by EU (HORIZON-TMA-MSCA-PF-EF, FP7-PEOPLE-2011-IOF), UniGe, DAAD, INAIL/AUSIND, Fondazione Carige, DLTM FESR-POR Liguria and member of various national and international research projects funded by the Italian funding agency, the British one and EU funding schemes
- since 2019 expert member of Technical-Scientific section of the (Ligurian) Regional Statistical Committee
- evaluator for European Project in the Mathematics/Engineering panels, for national funding agency of USA, UK, The Netherlands, Norway, New Zeland - member of the exam boards for 12 PhD theses
- reviewer for journals, proceedings, books, books chapters in mathematics, statistics and their applications - member of the scientific committee of 10+ international workshops and conferences
- invited speaker to 35+ conferences, workshops, departmental seminars
- since 2017 member of the Editorial Board of Algebraic Statistics (fka Journal of Algebraic Statistics)

Teaching

Mathematical statistics, applied statistics, graphical modelling, stochastic processes for second, third year undergraduates and master students; design of experiments and stochastic processes for PhD students; invited lecturer to four international schools on algebraic statistics; training staff course in statistics for IIT (Italian Institute of Technology), Asl2 (Azienda Sanitaria Ligure), UniGe (University of Genova).