

Carlo Gaetan

Curriculum Vitae

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Education

- 1994 Dottorato (Ph. D.) Statistics, University of Padua (Italy)
1992 Master Statistique et Modèles Aléatoires en Economie et Finance, University of Paris VII (France) (mention: bien)
1988 Laurea (B.S.) Scienze Statistiche ed Economiche, University of Padua (Italy) (110/110 cum laude)

Academic Positions Held

- 11/2017-present Professore ordinario (Full Professor), Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy.
03/2005-11/2017 Professore associato (Associate Professor), Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy.
11/2003-02/2005 Ricercatore (Assistant Professor), Department of Statistics, University Ca' Foscari of Venice, Italy.
02/1994-10/2003 Ricercatore (Assistant Professor), Department of Statistical Sciences, University of Padua, Italy.

Visiting Positions

- 2022 Visiting scientist Department de Mathématiques, Université de Bretagne Occidentale, France (May-June 2022)
2017 Visiting scientist INRA-BIOSP Avignon, France (January-February 2017) (one week)
2009 Visiting professor Université Montpellier II, France, (February 2009) (one month)
2008 Visiting professor Université Paris I, (October 2008) (one month)
2008 Visiting fellow Department of Mathematics, Universitat Jaume I, Castellón, Spain (June 2008) (one week)
2006 Visiting fellow Laboratoire SAMOS, Université Paris I, France (December 2006) (one week)
2006 Visiting fellow Department of Mathematics, Universitat Jaume I, Castellón, Spain (April 2006) (one week)

Phd Student supervision

- 2020-2023 Touqeer Ahmad PhD in Statistics (University of Padua, Italy)
2019-2021 Bonface Malenje, PhD in Statistics (University of Padua, Italy, Now Lecturer, University of Agriculture and Technology. Nairobi. Kenya)
2019-2021 Victor Musau, PhD in Statistics (University of Padua, Italy, Now Lecturer, Kirinyaga University, Kenya)
2018-2020 Anastasiia Gorshechnikova, PhD in Statistics (University of Padua, Italy, Now Consultant, Proximus, Belgium)
2018-2020 Md Moinuddin, PhD in Statistics (University of Padua, Italy, Now Postdoc, Edge Hill University, United Kingdom)
2016-2018 Christian Caamaño Doctorado en Estadística, Universitat de Valparaíso, CHILE, (co-supervisor, now Profesor Asistente B, Universidad del Bio Bio, Chile)

- 2013-2014 Alessio Tegon, PhD Candidate in Statistics (University of Padua, Italy) (Performed two years of studies in pursuit of PhD before exiting program).
- 2010-2012 Shireen Assaf, PhD in Statistics (University of Padua, Italy), (co-supervisor) (now Senior Research Associate Demographic and Health Surveys Program ICF International Virginia, USA).
- 2008-2010 Ricardo Alvarado, PhD in Statistics (University of Padua, Italy). (Now Assistant Professor at the Statistics Department of University of Costa Rica, Costa Rica)
- 2006-2008 Hamman Amany, PhD in Earth Sciences (University of Padua, Italy) (co-supervisor).
- 2005-2007 Ana Esther Madrid Garcia, PhD in Statistics (University of Granada, Spain) (co-supervisor) (Now Professor CUD, Centro Universitario de la Defensa Academia General del Aire, Spain).
- 2004-2006 Moreno Bevilacqua, PhD in Statistics (University of Padua, Italy) (Now Full Professor at the Statistics Department of University of Valparaiso, Chile, Associate Professor at Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice)
- 2002-2004 Sebastiano Trevisani, PhD in Earth Sciences (University of Padua, Italy) (co-supervisor) (Now assistant professor at the Faculty of Architecture of the University IUAV of Venice).

Post-doc student supervision

- 2020-2021 Noémie Le Carrer : *Space-time modelling of rainfall extremes*
- 2016- 2017 Jorge Lopèz-Parages: *Climate in the Tropical Atlantic*
- 2013-2015 Paolo Girardi: *New advances in time series analysis for ecological and environmental data* (Now fixed-term researchers (RTD-B) in Statistics , Ca' Foscari University of Venice, Italy)
- 2005- 2006 Luca Greco: *Spatial statistics and robustness* (Now Associate professor in Statistics, University of Sannio, Italy)

Research Interests

Computational statistics, Environmental statistics, Extreme value analysis, Functional data analysis, Spatial statistics, Time Series Analysis

Recent relevant articles

1. Girardi, P. and Gaetan, C. (2023), An SEIR Model with Time-Varying Coefficients for Analyzing the SARS-CoV-2 Epidemic. *Risk Analysis*. **43**, 144-155
2. Musau, V. M., Gaetan, C., Girardi, P. (2022). Clustering of bivariate satellite time series: A quantile approach. *Environmetrics*, e2755. <https://doi.org/10.1002/env.2755>
3. Bortot P, Gaetan C. (2022) A model for space-time threshold exceedances with an application to extreme rainfall. *Statistical Modelling*.
4. Allard, D., Fabbri, P., Gaetan, C. (2021) Modeling and simulating depositional sequences using latent Gaussian random fields, *Mathematical Geosciences* **53**, 469-497.
5. Bevilacqua, M., Caamaño-Carrillo, C., Gaetan, C. (2020) On modeling positive continuous data with spatio-temporal dependence, *Environmetrics*, **31**, e2632
6. Bacro, J-N., Gaetan, C., Opitz, T., Toulemonde, G. (2020) Hierarchical space-time modeling of asymptotically independent exceedances with an application to precipitation data, *Journal of the American Statistical Association*, **115**, 555-569
7. Arisido, M. W., Gaetan, C., Zanchettin, D., Lopez Parages, J., Rubino, A. (2019) Spatio-temporal quantification of climate model errors in a Bayesian framework, *Stochastic Environmental Research and Risk Assessment*, **33**, 111-124.
8. Gaetan, C., Girardi, P. and Pastres R. (2017) Spatial clustering of curves with an application of satellite data, *Spatial Statistics*, **20**, 110-124

9. Bacro, J-N., Gaetan, C., Toulemonde, G. (2016) A flexible dependence model for spatial extremes *Journal of Statistical Planning and Inference*, **172**, 36-52
10. Gaetan, C., Girardi, P., Pastres, R., Mangin, A. (2016) Clustering Chlorophyll-a satellite data using quantiles, *The Annals of Applied Statistics*, **10**, 964-988.
11. Bevilacqua M., Gaetan C. (2015) Comparing composite likelihood methods based on pairs for spatial Gaussian random fields, *Statistics and Computing*, **25**, 877-892
12. Bacro J.-N., Gaetan C. (2014) Estimation of spatial max-stable models using threshold exceedances, *Statistics and Computing*, **24**, 651-662
13. Bortot P., Gaetan C. (2014) A latent process model for temporal extremes, *Scandinavian Journal of Statistics*, **41**, 606-621
14. Bevilacqua M., Gaetan C., Mateu J., Porcu E. (2012) Estimating space and space-time covariance functions: a weighted composite likelihood approach, *Journal of the American Statistical Association*, **107**, 268-280