

Lara Fontanella

Department of Socio-Economic, Management and Statistical Studies
G. d'Annunzio University Chieti-Pescara
Viale Pindaro 42, 65127 Pescara, Italy

lara.fontanella@unich.it

ORCID: [0000-0002-5441-0035](https://orcid.org/0000-0002-5441-0035)

Web of Science ResearcherID: AAF-1334-2020

Scopus ID: 6701831150

Google Scholar: [profile](#)



Current Position

2021 - Full Professor of Social Statistics

Previous Positions

2017 – 2021	Associate Professor of Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2005 – 2017	Researcher in Statistics, G. d'Annunzio University, Chieti-Pescara, Italy

Fellowships

2001 – 2002	Research Fellow, G. d'Annunzio University, Chieti
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Visiting Positions

18 May -21 June 2025	Visiting Professor, at Department of Methodology for Behavioral Science, Universitat de València, Spain
11 May -8 June 2023	Visiting Professor, at Pattern Recognition and Human Language Technologies (PRHLT) Research Center, Universitat Politècnica de València, Spain
1-28 February 2020	Visiting Professor, Computational Linguistics & Psycholinguistics Research Center (CLiPS) - University of Antwerp (Belgium)
2012–2018	Visiting Researcher, School of Mathematics, Statistics and Actuarial Science, University of Kent (Canterbury, UK): January–May 2012 (5 months), January 2013 (1 month), July 2014 (1 month), January 2015 (2 weeks), January 2018 (1 month).
January 2008 (1 month)	Visiting Researcher, School of Mathematics, University of Manchester (UK).
July 2007 (2 weeks)	Visiting Researcher, School of Mathematics, University of Leeds (UK).
September 1998 - April 1999	Visiting PhD Student, School of Mathematics and Statistics, University of Sheffield (UK).

Education

2001	Ph.D. in Statistics - <i>Karhunen Loève expansion for a geostatistical analysis of spatial and spatio-temporal processes: methodology and applications</i> , G. d'Annunzio University, Chieti, Italy
1996	Master – Economics and Business, G. d'Annunzio University, Chieti, Italy

Teaching Activities

Ph.D. courses

2025-2026	Introduction to Item Response Theory Models and their Applications, Ph.D. Program in Business & Behavioral Sciences, G. d'Annunzio University, Chieti-Pescara, Italy
2022-2023	Introduction to Text Mining, Ph.D. Program in Business & Behavioral Sciences, G. d'Annunzio University, Chieti-Pescara, Italy
2016 – 2021	Introduction to Item Response Theory Models and their Applications, Ph.D. Program in Business & Behavioral Sciences, G. d'Annunzio University, Chieti-Pescara, Italy
2007	Models and Applications within the Generalised Fourier Expansion of Temporal, Spatial and Spatio-Temporal Processes", Ph.D. in Statistics, Department of Mathematical Sciences, University of Liverpool (UK.)

Master degree

2022–2024, 2025–2026	Module leader – Social Data Science, G. d'Annunzio University, Chieti-Pescara, Italy
2016 – 2021	Module leader – Computational Social Research, G. d'Annunzio University, Chieti-Pescara, Italy
2016 – 2018	Module leader – Forensic Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2005 – 2010	Module leader – Statistical methods for the evaluation of social policy, G. d'Annunzio University, Chieti-Pescara, Italy

First level degree

2025– 2026	Module leader – Introduction to Social and Criminological Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2017 – 2024	Module leader – Introduction to Forensic Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2013 – 2019	Module leader – Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2005 – 2011	Module leader – Social Statistics, G. d'Annunzio University, Chieti-Pescara, Italy
2005 – 2009	Module leader – Computer literacy, G. d'Annunzio University, Chieti-Pescara, Italy

Institutional Responsibilities

2019 –	Coordinator of the Quality Assurance Group for the first level degree course in Business Law, G. d'Annunzio University, Chieti-Pescara, Italy
2016 – 2018	Component of the <i>Presidio di Qualità</i> (unit responsible for the internal QA system), Leonardo da Vinci Telematic University
2019 and 2025	Component of the research group for the Gender Budgeting Report of G. d'Annunzio University, Chieti-Pescara, Italy

Supervision of Graduate Students and Postdoctoral Fellows

2024 –	<i>Research Fellow</i> : Alex Cucco. Project “TOLERANT: Identification and Critical Analysis of Online Racism and Xenophobia against (Im)migrants and Roma people”.
2024 – 2025	<i>Post-doc Researcher</i> : Graziano Aretusi. Project “ENCLOSE: Enhancing Social Understanding: Statistical Matching for Complex Social Survey”
2016 – 2018	<i>Post-doc Researcher</i> : Annalina Sarra. Project on Statistical models for the analysis of higher education retention and persistence
2022 –	<i>Ph.D. Student</i> : Elisa Ignazzi. She is currently working on statistical methods for the analysis of misogynistic content
2021 – 2024	<i>Ph.D. Student</i> : Nicola Pronello. Dissertation title: “Analysis of complex object data via functional data analysis and graphical models ”
2018 – 2021	<i>Ph.D. Student</i> : Emiliano del Gobbo. Dissertation title: “Spatial and Temporal aspects of Online Debates: A Text Mining approach”
2018 – 2021	<i>Ph.D. Student</i> : Alice Tontodimamma. Dissertation title: “Text Mining for Hate Speech Detection on Social Media”

2011-2014	<i>Ph.D. Student:</i> Caterina Fusilli. Dissertation title: “An offset normal likelihood approach for static and dynamic shape analysis” (Co-supervised with Prof. A. De Santis)
2007-2010	<i>Ph.D. Student:</i> Graziano Aretusi. Dissertation title: “Supervised classification of thermal high-resolution infrared images” (Co-supervised with Prof. L. Ippoliti)

Organisation Of Scientific Meetings

2021 – 2023	Member of the Organizing Committee of the DSSR2025 conference, Pescara, February 19-21, 2025, Italy
2021 – 2023	Member of the Organizing Committee of the IES2023 conference, Pescara, 30 August-1 September, Italy
2021 – 2022	Member of the Program Committee of the SIS2022 - 51ST SCIENTIFIC MEETING OF THE ITALIAN STATISTICAL SOCIETY University of Campania "Luigi Vanvitelli", June 22, 2022 – June 24, 2022
2018 – 2019	Member of the Organizing Committee of the GRASPA2019 conference, Pescara, 15-16 July, Italy
2018 –	Member of the Organizing Committee of the ASA 2018 conference, Pescara, 12-14 September 2018, Italy

Reviewing Activities

2019 –	Member of the Editorial Board, Computational Social Science (CSS) series – FrancoAngeli, Italy
2015 –	Reviewer for: Behavior Research Methods, Scientific Reports, Statistical Methods and Applications, International Statistical Review, Computational Statistics and Data Analysis, Stochastic Environmental Research and Risk Assessment, Journal of Statistical Computation and Simulation, Biometrical Journal, Statistics and Computing, International Journal of Intercultural Relations, PlosOne, Quality and Quantity, Frontiers in Psychology, Humanities and Social Sciences Communications, Information, Communication & Society, Journal of Sexual Aggression, New Media and Society, Futures, Journal of Gender Studies

Memberships Of Scientific Societies

2024 –	Member, FutureSis, Group of the Italian Statistical Society
2022 –	Member, CLADAG (CLAssification and Data Analysis Group of the Italian Statistical Society)
2013 –	Member, GRASPA-SIS (Research Group for Statistical Applications to Environmental Problems)
2005 –	Member, ITALIAN STATISTICAL SOCIETY (SIS)

Research Projects

2023-2026	Principal Investigator of the PRIN-PNRR 2022 Project P2022APKJL “ TOLERANT: Identification and Critical Analysis of Online Racism and Xenophobia against (Im)migrants and Roma people ”. Funded by the <i>European Union – Next Generation EU</i> .
2024-2025	Principal Investigator of the GRINS project, Extended Partnership “Growing Resilient, INclusive and Sustainable” – PNRR Mission 4, Component 2 “From Research to Business”, Investment 1.3. Project “ ENCLOSE: Enhancing Social Understanding: Statistical Matching for Complex Social Survey ” [PE0000018]. Funded by the <i>European Union – Next Generation EU</i> .
2022-2024	Principal Investigator of the Project “ ICOMIC: Identifying and Countering Online Misogyny ”. Funded by <i>European Union – Next Generation EU</i> , MUR Fondo Promozione e Sviluppo DM 737/2021.
2013-2017	Component of the research group of the FIRB (RBFR12URQJ) “Statistics for Environmental Phenomena and their Interactions (STEPHI)”. Funded by the <i>Italian Ministry of Education, Universities and Research</i> .

Research Interests

The main methodological developments concern Latent variable models (Spatial and Dynamic Factor Analysis, Bayesian Item Response Theory models, Bayesian Structural equation models), Functional Data Analysis, and Statistical Shape Analysis.

The developed methodologies have been adopted, in different research areas, to investigate social phenomena (e.g., misogyny, racism, conspiracy theories and movements, Roma people, gender identities, gender inequality, student dropout), environmental problems (e.g., pollution), and psychological and medical issues.

My research has recently focused on Social media, Big Data, Text Mining, Social Network Analysis, and Graph Theory. Studies mainly concern political debates on the Internet, hate diffusion, online misogyny and racism, conspiracy theories and misinformation/disinformation.

Publications

Book

- 2016 BROMBIN C., FONTANELLA L., FUSILLI C., IPPOLITI L., SALMASO L. Parametric and Nonparametric Inference for Statistical Dynamic Shape Analysis with Applications. Springer Briefs in Statistics, SPRINGER INTERNATIONAL PUBLISHING, ISBN 978-3-319-26310-6

Articles

- 2026 CHULVI B., GONZÁLEZ J.Á., FONTANELLA L., RANGEL F. *Beyond words: How LLMs mirror human needs and values generating synthetic data*. BIG DATA & SOCIETY, 13(3) (2026), <https://doi.org/10.1177/20539517261457421>
- 2026 CUCCO A., GIORDANO G., FONTANELLA L., MISURACA M., SARRA A. *Examining attitudes on migrants: a dual-method approach based on Item Response Theory and Structural Topic Modelling*. STATISTICAL METHODS & APPLICATIONS (2026), <https://doi.org/10.1007/s10260-026-00875-8>
- 2026 SARRA A., CUCCO A., FONTANELLA L., DI BATTISTA T., EVANGELISTA A. *Semi-supervised evaluation of University quality: from structured measures to student voices*. QUALITY & QUANTITY (2026), <https://doi.org/10.1007/s11135-026-02903-x>
- 2026 DI ZIO S., FONTANELLA L., TONTODIMAMMA A. *Assessing long-term strategies to effectively counteracting online misogynistic speech using a Delphi-based future scenarios approach*. FUTURES, 177, 2026, 103773, <https://doi.org/10.1016/j.futures.2026.103773>
- 2026 DEL GOBBO E., IPPOLITI L., FONTANELLA L., CAFARELLI B. *Mining social media data to track environmental disaster events*. Environmental and Ecological Statistics (2026), <https://doi.org/10.1007/s10651-025-00699-x>
- 2026 DEL GOBBO E., FONTANELLA L., IPPOLITI L., DI ZIO S., FONTANELLA S., CUCCO A. *A space-filling sampling approach for collective classification of social media data*. ADVANCES IN DATA ANALYSIS AND CLASSIFICATION (2026). <https://doi.org/10.1007/s11634-026-00670-z>
- 2025 FONTANELLA L., CUCCO A., DEL GOBBO E., IGNAZZI E., FONTANELLA S. *Improving online misogyny detection: The role of human annotation and explanation-guided learning*. STATISTICA APPLICATA - ITALIAN JOURNAL OF APPLIED STATISTICS, 37(2), 247-252 (2025), <https://doi.org/10.26398/asaproc.0111>
- 2025 SARRA A., FONTANELLA L., EVANGELISTA A., DI BATTISTA T. *Combining textual analysis and IRT to interpret the students' voice*. STATISTICA APPLICATA - ITALIAN JOURNAL OF APPLIED STATISTICS, 37(2), 365-370 (2025), <https://doi.org/10.26398/asaproc.0131>
- 2025 SARRA A., PENTUCCI M., FONTANELLA L. *Exploring teachers' professional identity: A case study utilizing structural equation modeling and text mining in a multimodal approach*. STATISTICA APPLICATA - ITALIAN JOURNAL OF APPLIED STATISTICS, 37(2) (2025), <https://doi.org/10.26398/asaproc.0132>
- 2025 NIELI M., DI ZIO S., FONTANELLA L., BERTI C., *Pretese e aspettative verso l'università: validazione Italiana dell'"Academic Entitlement Questionnaire" e della "Learning Orientation and Grade Orientation Scale"*, GIORNALE ITALIANO DI PSICOLOGIA, Rivista trimestrale, 4/2025, pp. 899-926, <https://doi.org/10.1421/118808>

- 2025 SARRA, A., FONTANELLA, L., PENTUCCI, M., CIOCI, G., ESPOSITO, I., *Proposing the use of psychometric network analysis to investigate the relationship between teachers and technology*, QUALITY AND QUANTITY, (2025), 59(5). <https://doi.org/10.1007/s11135-025-02182-y>
- 2025 AQUINO, A., FONTANELLA, L., WALKER, M., HADDOCK, G. AND ALPARONE, F.R., *What Your Face Says: How Signals of Communion and Agency Inform First Impressions and Behavioural Intentions*. EUROPEAN JOURNAL OF SOCIAL PSYCHOLOGY., 55: 54-69 (2025). <https://doi.org/10.1002/ejsp.3117>
- 2025 IGNAZZI, E., MARETTI, M., FONTANELLA, L. (2025). *The Italian Manosphere: Composition, Structure, and Functions of a Digital Network*. SOCIAL INCLUSION, 13, Article 9341. <https://doi.org/10.17645/si.9341>
- 2024 FONTANELLA, L., CHULVI, B., IGNAZZI, E., SARRA A, TONTODIMAMMA, A., *How do we study misogyny in the digital age? A systematic literature review using a computational linguistic approach*. HUMANITIES AND SOCIAL SCIENCES COMMUNICATIONS 11, 478 (2024). <https://doi.org/10.1057/s41599-024-02978-7>
- 2024 PRONELLO, N., CUCCO, A., DEL GOBBO, E., FONTANELLA, L., FONTANELLA, S. *Dynamics of online debates: insights from textual network analysis*. ANNALS OF OPERATIONS RESEARCH (2024). <https://doi.org/10.1007/s10479-024-06315-8>
- 2024 DEL GOBBO, E., GUARINO, A., CAFARELLI, B., FONTANELLA, L., *Determinants of Students' Attitude towards Online Learning in Higher Education during Covid-19*. STATISTICA APPLICATA - ITALIAN JOURNAL OF APPLIED STATISTICS (2024), <https://doi.org/10.26398/IJAS.0036-005>
- 2023 DI BERARDO M., DI ZIO S., FONTANELLA L., *World Futures Day 2022: A mixed method approach to identify topics of a global futures agenda*, FUTURES, Volume 154, 2023, 103244, <https://doi.org/10.1016/j.futures.2023.103244>
- 2023 DI ZIO S., TONTODIMAMMA A., DEL GOBBO E., FONTANELLA L., *Exploring the research dynamics of futures studies: An analysis of six top journals*, FUTURES, Volume 153, 2023, <https://doi.org/10.1016/j.futures.2023.103232>
- 2023 TONTODIMAMMA A., FONTANELLA L., ANZANI S., BASILE V., *An Italian lexical resource for incivility detection in online discourses*. QUALITY & QUANTITY 57, 3019–3037 (2023). <https://doi.org/10.1007/s11135-022-01494-7>
- 2023 ANTONUCCI L., BALZANELLA A., BRUNO E., CROCETTA C., DI ZIO S., FONTANELLA L., SANARICO M., SCARPA B., VERDE R., VITTADINI G., *Data science skills for the next generation of statisticians*, STATISTICAL JOURNAL OF THE IAOS, vol. 39, no. 4, pp. 773-782, 2023, <https://doi.org/10.3233/SJI-230060>
- 2022 DEL GOBBO E., FONTANELLA L., FONTANELLA S., SARRA A. *Geographies of Twitter debates*. JOURNAL OF COMPUTATIONAL SOCIAL SCIENCE, 5, 647–663 (2022), <https://doi.org/10.1007/s42001-021-00143-7>
- 2021 TONTODIMAMMA A., NISSI E., SARRA A., FONTANELLA L. *Thirty years of research into hate speech: topics of interest and their evolution*. SCIENTOMETRICS, 126, 157–179 (2021), <https://doi.org/10.1007/s11192-020-03737-6>
- 2021 DEL GOBBO E., FONTANELLA S., SARRA A., FONTANELLA L. *Emerging Topics in Brexit Debate on Twitter around the Deadlines*. SOCIAL INDICATORS RESEARCH, 156, 669–688 (2021), <https://doi.org/10.1007/s11205-020-02442-4>
- 2020 FONTANELLA, L., SARRA, A. DI ZIO, S. *Do Gender Differences in Social Institutions Matter in Shaping Gender Equality in Education and the Labour Market? Empirical Evidences from Developing Countries*. SOCIAL INDICATORS RESEARCH 147, 133–158 (2020), <https://doi.org/10.1007/s11205-019-02148-2>
- 2020 DE MARTINIS, M., SIRUFO, M.M., NOCELLI, C., FONTANELLA, L., GINALDI, L. *Hyperhomocysteinemia is Associated with Inflammation, Bone Resorption, Vitamin B12 and Folate Deficiency and MTHFR C677T Polymorphism in Postmenopausal Women with Decreased Bone Mineral Density*. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 17(12), 4260 (2020), <https://doi.org/10.3390/ijerph17124260>

- 2019 FONTANELLA, L., IPPOLITI, L., SARRA, A., NISSI E., PALERMI S. *Investigating the association between indoor radon concentrations and some potential influencing factors through a profile regression approach*. ENVIRONMENTAL AND ECOLOGICAL STATISTICS 26, 185–216 (2019), <https://doi.org/10.1007/s10651-019-00424-5>
- 2019 FONTANELLA L., IPPOLITI L., VALENTINI P., *Predictive functional ANOVA models for longitudinal analysis of mandibular shape changes*. BIOMETRICAL JOURNAL, 61(4), 918–933 (2019), <https://doi.org/10.1002/bimj.201800228>
- 2019 FAIRFIELD B., MAMMARELLA N., FONTANELLA L., SARRA A., D'AURORA M., STUPPIA L., GATTA V., *Aging and the Combined effects of ADRA2B and CB1 deletions on Affective Working Memory*. SCIENTIFIC REPORTS, 9:4081 (2019), <https://doi.org/10.1038/s41598-019-40108-5>
- 2019 SARRA A., FONTANELLA L., DI ZIO S. *Identifying Students at Risk of Academic Failure Within the Educational Data Mining Framework*. SOCIAL INDICATORS RESEARCH, 146, 41–60 (2019), <https://doi.org/10.1007/s11205-018-1901-8>
- 2019 FONTANELLA L., IPPOLITI L., KUME A. *The Offset Normal Shape Distribution for Dynamic Shape Analysis*. JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS, 28 (2), 374–385 (2019), <https://doi.org/10.1080/10618600.2018.1530118>
- 2019 FONTANELLA L., FONTANELLA S., VALENTINI P., TRENDAFILOV N. *Simple structure detection through Bayesian Exploratory Multidimensional IRT models*. MULTIVARIATE BEHAVIOURAL RESEARCH, 54 (19), 100–112 (2019) <https://doi.org/10.1080/00273171.2018.1496317>
- 2019 RUGGERO G., BASILISCO S., SCARDACCIONE G., FONTANELLA L. *La condizione detentiva, il trattamento e la relazione professionale con il detenuto autore di reati sessuali. Una visione esperienziale*. RIVISTA DI CRIMINOLOGIA, VITTIMOLOGIA E SICUREZZA, XIII (1), 70–91 (2019), <https://doi.org/10.14664/rcvs/915>
- 2018 SCARDACCIONE G., FONTANELLA L., GRAVELLI G. *Distorsioni cognitive e rischio di recidiva nei sex offenders: uno studio preliminare*. RASSEGNA ITALIANA DI CRIMINOLOGIA, 4/2018
- 2018 FONTANELLA L., SARRA A., VALENTINI P., DI ZIO S. *Varying levels of anomie in Europe: a multilevel analysis based on multidimensional IRT models*. AStA Advances in Statistical Analysis, 102, 589–610 (2018), <https://doi.org/10.1007/s10182-018-0320-0>
- 2017 CONTI C., DI FRANCESCO G., FONTANELLA, L., CARROZZINO D., PATIERNO C., VITA-COLONNA E., FULCHERI M. *Negative Affectivity Predicts Lower Quality of Life and Metabolic Control in Type 2 Diabetes Patients: A Structural Equation Modeling Approach*. FRONTIERS IN PSYCHOLOGY, 78(8) (2017), <https://doi.org/10.3389/fpsyg.2017.00831>
- 2017 VILLANO P., FONTANELLA L., FONTANELLA S., DI DONATO M. *Stereotyping Roma people in Italy: IRT models for ambivalent prejudice measurement*. INTERNATIONAL JOURNAL OF INTERCULTURAL RELATIONS, 57, 30–41 (2017). <https://doi.org/10.1016/j.ijintrel.2017.01.003>
- 2016 SARRA A., FONTANELLA L., VALENTINI P. PALERMI S., *Quantile regression and Bayesian cluster detection to identify radon prone areas*. JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, 164, 354–364 (2016), <https://doi.org/10.1016/j.jenvrad.2016.06.014>
- 2016 FONTANELLA L., SARRA A., DI ZIO S., VALENTINI P. *A hierarchical generalised Bayesian SEM to assess quality of democracy in Europe*. METRON, 74(1), 117–138 (2016), <https://doi.org/10.1007/s40300-016-0081-z>
- 2016 FONTANELLA L., VILLANO P., DI DONATO M. *Attitudes towards Roma people and migrants: a comparison through a Bayesian multidimensional IRT model*. QUALITY & QUANTITY, 50(2), 471–490 (2016), <https://doi.org/10.1007/s11135-014-0158-9>
- 2015 BROMBIN C., SALMASO L., FONTANELLA L., IPPOLITI L. *Nonparametric combination-based tests in dynamic shape analysis*, JOURNAL OF NONPARAMETRIC STATISTICS, 27(4), 460–484 (2015), <https://doi.org/10.1080/10485252.2015.1071811>
- 2015 FONTANELLA L., IPPOLITI L., SARRA A., VALENTINI P., PALERMI S. *Hierarchical Generalised Latent Spatial Quantile Regression Models with Applications to Indoor Radon Concentration*. STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, 29 (2), 357–367 (2015), <https://doi.org/10.1007/s00477-014-0917-0>
- 2015 FONTANELLA S., FONTANELLA L., IPPOLITI L., VALENTINI P. *Learning Non-linear Structures with Gaussian Markov Random Fields*. PROCEDIA ENVIRONMENTAL SCIENCES, Elsevier, 26, 38–44 (2015), <https://doi.org/10.1016/j.proenv.2015.05.020>

- 2015 FONTANELLA L., DI ZIO S. *Public geomarketing: georeferencing IRT models to support public decision*. STATISTICA APPLICATA, 24 (3), 301-320 (2015).
- 2014 FONTANELLA L., MARETTI M., SARRA A., *Gender fluidity across the world: A Multi-level Item Response Theory approach*. QUALITY & QUANTITY, 48(5), 2553-2568 (2014), <https://doi.org/10.1007/s11135-013-9907-4>
- 2014 SARRA A., FONTANELLA L., D'EGIDIO F., FRATTONE P., *The dimensional assessment of personality in drug addicts: a mixed-effects Rasch model approach*. QUALITY & QUANTITY, 48(6), 3025-3036 (2014), <https://doi.org/10.1007/s11135-013-9938-x>
- 2013 VALENTINI P., IPPOLITI L., FONTANELLA L., *Modeling US Housing Prices by Spatial Dynamic Structural Equation Models*. THE ANNALS OF APPLIED STATISTICS, 7 (2), 763-798 (2013), <https://doi.org/10.1214/12-AOAS613>
- 2013 SALVIONI C., FONTANELLA L. *Diversification strategies and their impact on farm performance*. APSTRACT, APPLIED STUDIES IN AGRIBUSINESS AND COMMERCE, 7 (2-3), 47-61 (2013)
- 2013 FONTANELLA L., IPPOLITI L., SARRA A., VALENTINI P., *Spatial Growth regressions for the convergence analysis of renewable energy consumption in Europe*. STATISTICA, 73(1), 39-53 (2013), <https://doi.org/10.6092/issn.1973-2201/3984>
- 2012 FONTANELLA L., IPPOLITI L., MERLA A., *Multiresolution Karhunen Loève analysis of galvanic skin response for psycho-physiological studies*, METRIKA, 75 (3), 287-309 (2012), <https://doi.org/10.1007/s00184-010-0327-3>
- 2008 FONTANELLA L., IPPOLITI L., MARTIN R.J., TRIVISONNO S., *Interpolation of Spatial and Spatio-Temporal Gaussian Fields using Gaussian Markov Random Fields*, ADVANCES IN DATA ANALYSIS AND CLASSIFICATION, 2 (1), 63-79 (2008), <https://doi.org/10.1007/s11634-008-0019-2>
- 2007 FONTANELLA L., IPPOLITI L., VALENTINI P., *Environmental Pollution Analysis by Dynamic Structural Equation Models* ENVIRONMETRICS, 18 (3), 265-283 (2007), <https://doi.org/10.1002/env.835>
- 2005 FONTANELLA L., GRANTURCO M., *Parsimonious VAR Models for Air Pollution Dynamic Analysis* JOURNAL OF MATHEMATICS AND STATISTICS, 1(4), 258-267 (2005), <https://doi.org/10.3844/jmssp.2005.267.276>
- 2005 IPPOLITI L., ROMAGNOLI L., FONTANELLA L., *A Noise Estimation Method for Corrupted Correlated Data* STATISTICAL METHODS AND APPLICATION, 14 (3), 343-356 (2005), <https://doi.org/10.1007/s10260-005-0106-x>
- 2005 COLI M., FONTANELLA L., GRANTURCO M., *Parametric Estimation for ARFIMA Models via Spectral Methods*. STATISTICAL METHODS AND APPLICATION 14 (1), 11-27 (2005), <https://doi.org/10.1007/BF02511572>
- 2004 DI ZIO S., FONTANELLA L., IPPOLITI L., *Optimal Spatial Sampling Schemes for Environmental Surveys*. ENVIRONMENTAL AND ECOLOGICAL STATISTICS, 11 (4), 397-414 (2004), <https://doi.org/10.1007/s10651-004-4186-9>
- 2003 DI BATTISTA T., FONTANELLA L., IPPOLITI L., *Conditional Simulation in Dynamic Linear Models for Spatial and Temporal Predictions of Diffusive Phenomena* STATISTICAL METHODS AND APPLICATIONS, 12(3), 361-375 (2003), <https://doi.org/10.1007/s10260-003-0065-z>
- 2003 COLI M., FONTANELLA L., IPPOLITI L., *Order Selection of Spatial and Temporal Autoregressive Models with Errors in Variables*. JOURNAL OF COMPUTING AND INFORMATION TECHNOLOGY, 11 (3), 175-180 (2003)
- 2003 FONTANELLA L., IPPOLITI L., *Dynamic models for space-time prediction via Karhunen-Loève expansion*. STATISTICAL METHODS AND APPLICATION, 12 (1), 61-78 (2003), <https://doi.org/10.1007/BF02511584>

Book Chapters

- 2026 CUCCO A., FONTANELLA L., VALENTINI P., FONTANELLA S. *Modeling Multi-rater Behavior with Bayesian Nonparametric MIRT: Inferring Latent Traits and Group Structure*. In: Computational Science – ICCS 2026 Workshops. Lecture Notes in Computer Science, pp. 72-86, Springer, Cham (2026), https://doi.org/10.1007/978-3-032-29909-3_6

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