



PERSONAL INFORMATION

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

Web of Science ResearcherId: AAF-1334-2020

Scopus ID: 6701831150

Google Scholar: <https://scholar.google.com/citations?hl=it&user=cSLXMSUAAAAJ>

• 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

• 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)

January 2018 (1 month)
January 2015 (2 weeks)
July 2014 (1 month)
January 2013 (1 month)
January – May 2012
(5 months)

Visiting Researcher, School of Mathematics, Statistics and Actuarial Science, Kent University (Canterbury, UK).

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
(7 months)

Visiting PhD Student, School of Mathematics and Statistics, University of Sheffield (UK).

- **EDUCATION**

- 2001 **Ph.D. in Statistics** - *Karhunen Loève expansion for a geostatistical analysis of spatial and spatio-temporal processes: methodology and applications*, 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 Module leader – Social Data Science, G. d'Annunzio University, Chieti-Pescara, Italy
- 2025–2026
- 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 *Presidio di Qualità* (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 – **Research Fellow:** Alex Cucco. Project “TOLERANT: Identification and Critical Analysis of Online Racism and Xenophobia against (Im)migrants and Roma people”.
- 2024 – 2025 **Post-doc Researcher:** Graziano Aretusi. Project “ENCLOSE: Enhancing Social Understanding: Statistical Matching for Complex Social Survey”
- 2016 – 2018 **Post-doc Researcher:** Annalina Sarra. Project on Statistical models for the analysis of higher education retention and persistence
- 2022 – **Ph.D. Student:** Elisa Ignazzi. She is currently working on statistical methods for the analysis of misogynistic content
- 2021 – 2024 **Ph.D. Student:** Nicola Pronello. Dissertation title: “Analysis of complex object data via functional data analysis and graphical models ”
- 2018 – 2021 **Ph.D. Student:** Emiliano del Gobbo. Dissertation title: “Spatial and Temporal aspects of Online Debates: A Text Mining approach”
- 2018 – 2021 **Ph.D. Student:** Alice Tontodimamma. Dissertation title: “Text Mining for Hate Speech Detection on Social Media”
- 2011-2014 **Ph.D. Student:** Caterina Fusilli. Dissertation title: “An offset normal likelihood approach for static and dynamic shape analysis” (Co-supervised with Prof. A. De Santis)
- 2007-2010 **Ph.D. Student:** 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-PNRR2022 Project P2022APKJL “**TOLERANT: Identification and Critical Analysis of Online Racism and Xenophobia against (Im)migrants and Roma people**”. Funded by the *European Union – Next Generation EU*
- 2024-2025** **Principal Investigator** of 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 *European Union – Next Generation EU*
- 2022-2024** **Principal Investigator** of the Project “**ICOMIC: Identifying and Countering Online Misogyny**” Funded by *European Union – Next Generation, 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 *Italian Ministry of Education, Universities and Research*.

- **RESEARCH INTEREST**

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 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 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., VITACOLONNA 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 Multilevel 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., FRATTONI 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., SARRA A., FONTANELLA S., *Learning Ontologies of Online Abusive Contents: Seeded LDA and Graph-Based Semantic Structuring of Offensive Anti-migrant Narratives in Italian*. Tesi & Temi Special Issue: Analysing Business Data with Statistics, Data Science, and AI — *accepted for publication*
- 2026 CUCCO A., FONTANELLA L., SARRA A., MONTELEONE M. *Strumenti lessicali per la decostruzione dell'odio: il ruolo di dizionario e ontologia nell'analisi del razzismo e della xenofobia online*. In Giordano, Misuraca, Maretti, Costanzo (Eds.), *Ecologie dell'odio: Razzismi nell'era digitale*, FrancoAngeli, 2026
- 2026 FONTANELLA L., MISURACA M., GIORDANO G., CUCCO A., DEL GOBBO E., IGNAZZI E. *Oltre il consenso: un corpus annotato in ottica prospettivista*. In Giordano, Misuraca, Maretti, Costanzo (Eds.), *Ecologie dell'odio: Razzismi nell'era digitale*, FrancoAngeli, 2026
- 2026 CUCCO A., DEL GOBBO E., FONTANELLA S., FONTANELLA L. *La rappresentazione dell'immigrazione nella stampa italiana: un'analisi statistica del linguaggio mediatico* In Giordano, Misuraca, Maretti, Costanzo (Eds.), *Ecologie dell'odio: Razzismi nell'era digitale*, FrancoAngeli, 2026
- 2025 DEL GOBBO, E., CUCCO, A., FONTANELLA, L. (2025). *Identification of Misogynistic Accounts on Twitter Through Graph Convolutional Networks*. In: Giordano, G., La Rocca, M., Niglio, M., Restaino, M., Vichi, M. (eds) *Statistical Models and Learning Methods for Complex Data*. CLADAG 2023. *Studies in Classification, Data Analysis, and Knowledge Organization*. Springer, Cham. https://doi.org/10.1007/978-3-031-84702-8_8
- 2023 IGNAZZI E., SARRA A., FONTANELLA L., *Exploring Misogyny through Time: From Historical Origins to Modern Complexities*, in Boero M., Boffa D. *Gender Differences in Language, Rights and Society*, Series *Philosophies of Communication*, Il Sileno Edizioni, pp.195-214, ISBN 979-12-80064-55-4
- 2021 RUSSO V., DEL GOBBO E., FONTANELLA L., MARETTI M., *Italian Top Influencers on Twitter in COVID-19 Time: A Multiplex Network Analysis*. In Giordano G., Restaino M., Salvini A. *Methods and applications in social networks analysis. Evidence from collaborative, governance, historical and mobility networks*. pp. 159-180, FrancoAngeli, Milano, ISBN 9788835124603
- 2020 TONTODIMAMMA A., DEL GOBBO E., RUSSO V., SARRA A., FONTANELLA L. *Facebook debate on Sea Watch 3 case: detecting offensive language through Automatic Topic Mining Techniques*. In: Mariani P., Zenga M. (eds) *Data Science and Social Research II*. DSSR 2019. *Studies in Classification, Data Analysis, and Knowledge Organization*, pp. 367-378. Springer, Cham ISBN 978-3-030-51222-4, https://doi.org/10.1007/978-3-030-51222-4_29
- 2020 FONTANELLA L., FONTANELLA S., IGNAZZI R., IPPOLITI L., VALENTINI P. *G-Lasso Network Analysis for Functional Data*. In: Aneiros G., Horová I., Hušková M., Vieu P. (eds) *Functional and High-Dimensional Statistics and Related Fields*. IWFOs 2020. *Contributions to Statistics*. pp 91-98. Springer, Cham. ISBN 978-3-030-47755-4 https://doi.org/10.1007/978-3-030-47756-1_13
- 2019 DEL GOBBO E., TONTODIMAMMA A., ANNALINA SARRA A. FONTANELLA L. *La classificazione supervisionata di documenti testuali*. In Maretti M. Fontanella L., *LA RICERCA SOCIALE NELLO SPAZIO DIGITALE*, pp. 81-107 FrancoAngeli, ISBN 9788891791238

- 2013 DI ZIO S., FONTANELLA L., SARRA A., *La diffusione di sostanza psicoattive in provincia di Chieti: mappe territoriali e analisi dei cluster*. In Di Francesco G., Tossicodipendenze e Società, uso e abuso di sostanze psicoattive in provincia di Chieti, pp. 123-170. Ce.R.I.S., 2013, ISBN 9788895992310
- 2013 SARRA A., FONTANELLA L., DI BATTISTA T., DI NISIO R., *Interpreting error measurement: a case study based on Rasch tree approach*. In Giudici, P., Ingrassia, S. and Vichi, M., Statistical Models for Data Analysis., pp. 325-332, SPRINGER INTERNATIONAL PUBLISHING, 2013, ISBN 9783319000312 https://doi.org/10.1007/978-3-319-00032-9_37
- 2013 FONTANELLA L., IPPOLITI L., VALENTINI P., *A Functional Spatio-Temporal Model for Geometric Shape Analysis*. In Torelli, N., Pesarin F., and Bar-Hen A., Advances in Theoretical and Applied Statistics. pp. 75-86, SPRINGER BERLIN HEIDELBERG, 2013, ISBN 978-3-642-35587-5, https://doi.org/10.1007/978-3-642-35588-2_8
- 2012 FONTANELLA L., IPPOLITI L., *Karhunen-Loève Expansion of Temporal and Spatio-Temporal Processes*. In: Tata Subba Rao and C. R. Rao, Sc.D., FRS. Handbook of Statistics: Time Series-Methods and Applications. pp. 497-522, ELSEVIER., 2012, ISBN 9780444538581, <https://doi.org/10.1016/B978-0-444-53858-1.00017-X>
- 2011 ARETUSI G., FONTANELLA L., IPPOLITI L., MERLA A., *Supervised classification of thermal high-resolution IR images for the diagnosis of Raynaud's phenomenon*. In Ingrassia S., Rocci R., Vichi M., New Perspectives in Statistical Modeling and Data Analysis, pp. 419-427, SPRINGER-VERLAG BERLIN HEIDELBERG, 2011, ISBN 978-3-642-11362-8, https://doi.org/10.1007/978-3-642-11363-5_47
- 2011 FONTANELLA L., DI ZIO S., *Le strategie di campionamento*. In Spedicato E., Migrare al femminile in una provincia del centro-sud: aree critiche, traiettorie lavorative, strategie d'inserimento, pp. 91-110. FRANCOANGELI, 2011, ISBN 9788856840001
- 2010 ARETUSI G., FONTANELLA L., IPPOLITI L., MERLA A., *Space-time texture analysis in thermal infrared imaging for classification of Raynaud's Phenomenon*. In Mantovan P., Secchi P., Contributions to Statistics, 2010, Complex Data Modeling and Computationally Intensive Statistical Methods, pp. 1-12, SPRINGER, 2010, ISBN 978-88-470-1385-8, https://doi.org/10.1007/978-88-470-1386-5_1
- 2004 FONTANELLA L., GRANTURCO M., *Spectral Analysis in Frequency and Time Domain for Noisy Time Series*. In Bock, H.H., Chiodi M., and Mineo A., Advanced in Multivariate Data Analysis, pp 67-79, SPRINGER BERLIN HEIDELBERG, 2004, ISBN 10: 3540208895, https://doi.org/10.1007/978-3-642-17111-6_6

• CONFERENCE PROCEEDINGS

- 2025 CUCCO A., DEL GOBBO E., FONTANELLA L., FONTANELLA S., IPPOLITI L. — *Constructing Fair and Comprehensive Dataset of Online Opinions for Human Annotations*, In Bocuzzo, Bovo, Manisera, Salmaso, IES 2025- Innovation & Society: Statistics and Data Science for Evaluation and Quality, Book of Short Papers, pp. 1364–1369
- 2025 DI ZIO S., FONTANELLA L., TONTODIMAMMA A., Foresight and strategies to address online misogyny: Insights from a Delphi scenario analysis. In “*Data Science & Social Research (DSSR 2025)*”, T. Di Battista, Y. Calleo, A. Cucco (Eds), ISBN: 9781326620653. Book of Abstract International Conference: DSSR 2025 - Towards a holistic understanding of society: bridging Social Sciences, Statistics and Computational Sciences, Pescara, 19-21 February 2025.
- 2025 CUCCO, A., DEL GOBBO, E., FONTANELLA, L., FONTANELLA, S., IPPOLITI, L. (2025). *Covering the Online Spectrum of Opinion in Social Context: The Benefit of Network Node Sampling Through an Italian Case Study*. In: Paszynski, M., Barnard, A.S., Zhang, Y.J. (eds) Computational Science – ICCS 2025 Workshops. ICCS 2025. Lecture Notes in Computer Science, vol 15907. Springer, Cham. https://doi.org/10.1007/978-3-031-97554-7_5
- 2025 IGNAZZI E., MARETTI M., FONTANELLA L. Mapping the Italian Manosphere: Language, Self-representation, and Network Analysis of Misogynistic Communities. In “*Data Science & Social Research (DSSR 2025)*”, T. Di Battista, Y. Calleo, A. Cucco (Eds), ISBN: 9781326620653. Book of Abstract International Conference: DSSR 2025 - Towards a holistic understanding of society: bridging Social Sciences, Statistics and Computational Sciences, Pescara, 19-21 February 2025.

- 2025 DEL GOBBO E., CUCCO A., FONTANELLA L., IGNAZZI E., FONTANELLA S., Leveraging Human Expertise for Better Understanding and Addressing Online Misogyny. In “*Data Science & Social Research (DSSR 2025)*”, T. Di Battista, Y. Calleo, A. Cucco (Eds), ISBN: 9781326620653. Book of Abstract International Conference: DSSR 2025 - Towards a holistic understanding of society: bridging Social Sciences, Statistics and Computational Sciences, Pescara, 19-21 February 2025.
- 2025 CUCCO A., DEL GOBBO E., FONTANELLA L., Challenges and approaches in creating a comprehensive dataset for annotating Italian online perspectives. In “*Data Science & Social Research (DSSR 2025)*”, T. Di Battista, Y. Calleo, A. Cucco (Eds), ISBN: 9781326620653. Book of Abstract International Conference: DSSR 2025 - Towards a holistic understanding of society: bridging Social Sciences, Statistics and Computational Sciences, Pescara, 19-21 February 2025
- 2025 FONTANELLA L., SARRA A., GIORDANO G., MISURACA M. Examining Attitudes on Immigrants: a dual-method approach based on IRT and Structural Topic Modelling. In “*Data Science & Social Research (DSSR 2025)*”, T. Di Battista, Y. Calleo, A. Cucco (Eds), ISBN: 9781326620653. Book of Abstract International Conference: DSSR 2025 - Towards a holistic understanding of society: bridging Social Sciences, Statistics and Computational Sciences, Pescara, 19-21 February 2025
- 2024 DI ZIO S., FONTANELLA L., Methodological innovations in addressing online misogyny: A delphi-based scenario approach, in *FUTURES OF NATURAL RESOURCES*, (Ed.) Lahara Ranaweera and Riikka Saarimaa, ISBN 9789522496140. 13-14 June 2024; Turku, Finland.
- 2024 IGNAZZI E., COLL M., DEL GOBBO E., CHULVI B., ROSSO P., FONTANELLA L. Characterizing Misogyny in Italian Online Discourse: Consensus and Disagreement in a New Dataset of Social Media Comments. In *Proceedings of the 17th Journées Internationales d'Analyse Statistique des Données Textuelles (JADT24)*, Bruxelles (Belgium), 25-27/06/2024, Presses universitaires de Louvain, ISBN 978-2-39061-471-5
- 2024 FONTANELLA L., SARRA, A., DEL GOBBO, E., CUCCO, A., FONTANELLA S. Exploring Anti-Migrant Rhetoric on Italian Social Media. In *Proceedings of the Statistics and Data Science 2024 Conference New perspectives on Statistics and Data Science*, Palermo 11-12 April 2024, Palermo: Università degli Studi di Palermo. ISBN 978-88-5509-645-4
- 2023 TONTODIMAMMA, A., IGNAZZI, E., ANZANI, S., FONTANELLA, L., DI ZIO, S., An Experimental Annotation Task Investigating Annotator Agreement Within a Misogynistic Dictionary and Corpus. In *IES 2023 - Statistical Methods for Evaluation and Quality: Techniques, Technologies and Trends (T3) Book of Short papers*, Il Viandante, ISBN: 979-12-803-3369-8
- 2023 FONTANELLA L., DEL GOBBO E., CUCCO A. Identification of Misogynistic Accounts on Twitter through Graph Convolutional Networks. In *CLADAG 2023 BOOK OF ABSTRACTS AND SHORT PAPERS*, Pearson Education Resources, Italia, ISBN: 9788891935632
- 2023 CHULVI B., FONTANELLA L., LABADIE-TAMAYO R., ROSSO P. Social or Individual Disagreement? Perspectivism in the Annotation of Sexist Jokes, In *Proceedings of the 2nd Workshop on Perspectivist Approaches to NLP co-located with 26th European Conference on Artificial Intelligence (ECAI 2023)*, Krakow, Poland, 30 September 2023.
- 2023 NIELI M., DI ZIO S., FONTANELLA L., BERTI C., Translation and validation of the Italian version of the academic entitlement questionnaire (AEQ) and learning orientation - grade orientation scale (LOGO II), in “Statistics, Technology and Data Science for Economic and Social Development”, Book of Short Papers, Guest Editors: Luigi Fabbri, Stefania Mignani, Giorgio Tassinari, *Italian Journal of Applied Statistics*, Supplement to Volume 35/3, 2023, pp. 317-322. RCE Multimedia, ISSN:1125-1964, E-ISSN:2038-5587. 6-8 September 2023, Bologna, Italy.
- 2023 SARRA, A., FONTANELLA, L., PENTUCCI, M., CIOCI, G., ESPOSITO, I. Investigating the link between teachers' burnout and technology through the network psychometrics analysis: A survey of educators from diverse schools and grade level. in “Statistics, Technology and Data Science for Economic and Social Development”, Book of Short Papers, Guest Editors: Luigi Fabbri, Stefania Mignani, Giorgio Tassinari, *Italian Journal of Applied Statistics*, Supplement to Volume 35/3, 2023, pp. 317-322. RCE Multimedia, ISSN:1125-1964, E-ISSN:2038-5587. 6-8 September 2023, Bologna, Italy.
- 2023 FONTANELLA L., DEL GOBBO E., CUCCO A. Identification of Misogynistic Accounts on Twitter through Graph Convolutional Networks. In *CLADAG 2023 BOOK OF ABSTRACTS AND SHORT PAPERS*, Pearson Education Resources, Italia, ISBN: 9788891935632
- 2023 PRONELLO N., DEL GOBBO E., FONTANELLA L., IGNAZZI R., IPPOLITI L., FONTANELLA S. Functional Graphical Models to map Brexit debate on Twitter. In *SIS 2023 - Book of the Short Papers*, Pearson, ISBN: 9788891935618
- 2023 VALENTINI P., FONTANELLA S., FONTANELLA L. Unveiling Latent Structures: exploring Multidimensional IRT Models using Dirichlet Process Mixtures. In *IES 2023 - Statistical Methods for*

- Evaluation and Quality: Techniques, Technologies and Trends (T3) Book of Short papers*, Il Viandante, ISBN: 979-12-803-3369-8
- 2023 DEL GOBBO E., CAFARELLI B., IPPOLITI L., FONTANELLA L., Mining social media data for damage assessment in environmental disasters. In *IES 2023 - Statistical Methods for Evaluation and Quality: Techniques, Technologies and Trends (T3) Book of Short papers*, Il Viandante, ISBN: 979-12-803-3369-8
- 2023 TONTODIMAMMA A., IGNAZZI E., ANZANI S., FONTANELLA L., DI ZIO, S., An Experimental Annotation Task Investigating Annotator Agreement Within a Misogynistic Dictionary and Corpus. In *IES 2023 - Statistical Methods for Evaluation and Quality: Techniques, Technologies and Trends (T3) Book of Short papers*, Il Viandante, ISBN: 979-12-803-3369-8
- 2023 CHULVI B., FONTANELLA L., LABADIE-TAMAYO R., ROSSO P., Social or Individual Disagreement? Perspectivism in the Annotation of Sexist Jokes. In *Proceedings of the 2nd Workshop on Perspectivist Approaches to NLP co-located with 26th European Conference on Artificial Intelligence (ECAI 2023)*. In CEUR WORKSHOP PROCEEDINGS vol. 3494
- 2023 ARZOUAMANIDIS I., TASCIONE V., IPPOLITI L., FONTANELLA L., PETTI L., RAGGI A. Measuring the Carbon Footprint of a sample of accommodation facilities in Italy. In *Proceedings of the 29th International Sustainable Development Research Society (ISDRS) Conference 2023 "Half-way through Agenda 2030, Assessing the 5Ps of SDGs (People, Planet, Prosperity, Peace and Partnership)"* - ISBN, 978-967-26554-1-1
- 2022 TONTODIMAMMA A., ANZANI S., BASILE V., STRANISCI M., FONTANELLA L. Comparison of two annotation schemes to derive offensiveness scores in HurtLex. In *JADT 2022: PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON STATISTICAL ANALYSIS OF TEXTUAL DATA* - ISBN: 979-12-80153-31-9 vol. 2
- 2022 CUCCO A., FONTANELLA L., FONTANELLA S., PRONELLO N., *Exploratory Graph Analysis for Configural Invariance Assessment of a Test*. In *IFCS 2022 17th Conference of the International Federation of Classification Societies Classification and Data Science in the Digital Age* - ISBN: 978-989-98955-9-1
- 2022 TONTODIMAMMA A., ANZANI S., STRANISCI M., BASILE V., IGNAZZI, E. FONTANELLA L. An experimental annotation task to investigate annotators' subjectivity in a misogyny dataset. In *ASA 2022 Data-Driven Decision Making BOOK OF SHORT PAPERS* - ISBN: 979-12-215-0106-3
- 2021 BENEDETTI R., DI ZIO S., FONTANELLA L., PANTALONE F., PIERSIMONI F. Sampling Networked Data for Semi-Supervised Learning Algorithms, in Perna C., Salvati N., Schirippa Spagnolo F. *Book of Short Papers SIS 2021*, 51th Scientific Meeting of the Italian Statistical Society pp 423-428, Pearson, ISBN 9788891927361
- 2021 CASALINO G., CAFARELLI B., DEL GOBBO E., FONTANELLA L., GRILLI L., GUARINO A., LIMONE P., SCHICCHI D., TAIBI, D. Framing automatic grading techniques for open-ended questionnaires responses. A short survey. CEUR Workshop Proceedings, Volume 3025, 2nd Workshop on Technology Enhanced Learning Environments for Blended Education - The Italian E-Learning Conference, teleXbe 2021Foggia5 October 2021 through 6 October 2021.
- 2021 IPPOLITI L., DEL GOBBO E., FONTANELLA L., DI ZIO S., BENEDETTI R. A space filling sampling approach for network analysis. 5th European Conference on Social Network EUSN 2021 September 6-10th 2021, Naples
- 2021 FONTANELLA S., FONTANELLA L., IGNACCOLO R., IPPOLITI L., VALENTINI P. Persistent homology in network analysis and its application to environmental data, Proceedings of the GRASPA 2021 Conference Rome, 07-09 June 2021 ISBN 979-12-200-8496-3
- 2020 MARETTI M., RUSSO V., FONTANELLA L., DEL GOBBO E. The Italian twittersphere in COVID-19 Time: a topic analysis, *II International Conference ILIS*, University of Salerno, Salerno, 25-26 November 2020, ISBN 979-12-200-7467-4
- 2020 BUCCI A., FONTANELLA L., IPPOLITI L., VALENTINI P. Spatial Clustering of European NUTS 2 Regions based on COVID death rates changes. In Books of Abstracts, Third international conference on Data Science & Social Research, 10-11/12/2020, Bari ISBN 978-886629-051-3
- 2020 R. BENEDETTI R., DEL GOBBO E., DI ZIO S., FONTANELLA L., IPPOLITI, L. A fractal sampling approach for network analysis of Covid-19 twitter data, In Books of Abstracts, Third international conference on Data Science & Social Research, 10-11/12/2020, Bari ISBN 978-886629-051-3
- 2019 FONTANELLA, L., FONTANELLA, S., IGNACCOLO, R., IPPOLITI, L., VALENTINI, P. Coupled Gaussian Processes for Functional Data Analysis, *SIS2019: Smart Statistics for smart Applications Book of Short Papers* Milano, June 18, 2019 – June 21, 2019. ISBN 9788891915108

- 2019 FONTANELLA L., FONTANELLA S., IPPOLITI L., VALENTINI P. Graph learning in Network Psychometrics: a Bayesian approach AARS'19 INTERNATIONAL WORKSHOP Multilayer, Multilevel and Multimode Networks, Vietri sul Mare (Salerno) 29-31, 2019
- 2019 FONTANELLA S., DEL GOBBO E., FONTANELLA L., IPPOLITI L., VALENTINI P. Investigating the temporal dynamics of tweets through functional data analysis. Final CRoNoS meetings & Workshop on Multivariate Data Analysis, Limassol, 14-16 April 2019
- 2019 FONTANELLA L., NISSI E., SARRA A. Comparison of Machine Learning Techniques for University Students Dropout Prediction, Data Science & Social Research 2019 Book of Abstracts Second international conference on data science and social research 4 February 2019 - University of Milano - Bicocca 5 February 2019 - Università IULM. ISBN 9788894312096
- 2019 DEL GOBBO E., TONTODIMAMMA A., FONTANELLA L., IPPOLITI L. Supervised and Unsupervised Hate Speech Detection, Data Science & Social Research 2019 Book of Abstracts Second international conference on data science and social research 4 February 2019 - University of Milano - Bicocca 5 February 2019 - Università IULM. ISBN 9788894312096
- 2019 DI ZIO S., FONTANELLA L., FONTANELLA S., IPPOLITI L. Dimensionality reduction techniques on the simplex for text mining, Data Science & Social Research 2019 Book of Abstracts Second international conference on data science and social research 4 February 2019 - University of Milano - Bicocca 5 February 2019 - Università IULM. ISBN 9788894312096
- 2018 RUSSO V., MARETTI M., FONTANELLA L., TONTODIMAMMA A., Misleading information in online propaganda networks. *JADT' 18 Proceedings of the 14th International Conference on Statistical Analysis of Textual Data*, Rome, 12-15 June 2018, UniversItalia, ISBN 978-88-3293-137-2
- 2018 FONTANELLA L., IPPOLITI L., VALENTINI P., A Hierarchical Bayesian Spatio-Temporal Model to Estimate the Short-term Effects of Air Pollution on Human Health. *Book of Short Papers SIS 2018*, 49th Scientific Meeting of the Italian Statistical Society, University of Palermo June 20, 2018 – June 22, 2018, Pearson, ISBN 9788891910233
- 2018 FONTANELLA L. Uncertainty and probabilistic reasoning in Forensic Science, TVF 2018, Treviso Forensic, Mogliano Veneto, Treviso, 26-28 September 2018 Il Giornale dell'Ingegnere
- 2018 DEL GOBBO E., TONTODIMAMMA A., FONTANELLA L., An analysis of hate speech directed at the President of the Italian Republic during the formation of the 2018 government. Statistics and the Assessment, Control and Scenarios of Risks Applications to Food, Social and Health, Economic and Environmental Fields, Pescara 12-14 September 2018, Book of Abstracts
- 2017 FONTANELLA L., DI ZIO S., SARRA A., Identifying students at risk for academic failure within a construct validation framework. 8th Scientific Conference on INNOVATION & SOCIETY, Statistical Methods for Evaluation and Quality September 6th-7th 2017 Naples – Italy.
- 2017 DI ZIO S., FONTANELLA L., SARRA A., Assessment of quality and compositional attributes of Colombian Arabica coffees through a profile regression-based analysis, ASA 2017, Cibo e vino: Metodi e modelli statistici per classificare, scegliere e sperimentare, Napoli, Università Federico II - Complesso dei SS. Marcellino e Festo 07-08 September 2017
- 2017 FONTANELLA L., DI ZIO S. Do gender differences in social institutions matter in shaping gender equity in education and labour market? Empirical evidences from developing countries, AIQUAV 2017 30 novembre-2 December 2017 "Qualità della vita e sostenibilità"
- 2016 FONTANELLA L., IGNACCOLO R., IPPOLITI L., VALENTINI P., A Simple Generalised Space Time Model. *Proceedings of the 8th International Workshop on Spatio-Temporal Modelling*, Valencia, Spain, ISBN 978-84-608-8468-2
- 2016 FONTANELLA S., FONTANELLA L., VALENTINI P., TRENDAFILOV N., Constrained versus unconstrained exploratory approach to Bayesian Item Factor Analysis. In *Proceedings of the 30th meeting of the Japanese Society of Computation Statistics*, doi:10.20551/jsctaikai.30.0_59.
- 2016 FONTANELLA S., FONTANELLA L., VALENTINI P., TRENDAFILOV N. Unconstrained estimation procedures for exploratory MIRT models. In *9th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics* (CMStatistics 2016) - ISBN 978-9963-2227-1-1
- 2016 IPPOLITI L., FONTANELLA L., VALENTINI P., Modeling mandibular shape variation using functional ANOVA models, *9th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics* (CMStatistics 2016), 9 – 11 December 2016, Seville, ISBN 978-9963-2227-1-1

- 2016 FONTANELLA S., FONTANELLA L., VALENTINI P., TRENDAFILOV N. An unconstrained approach to rotational indeterminacy in Bayesian exploratory multidimensional IRT models, COMPSTAT 2016, Oviedo 23 August - 26 August 2016, Book of Abstracts
- 2015 FONTANELLA L., FONTANELLA S., VALENTINI P., TRENDAFILOV N., Sparse Exploratory Multidimensional IRT Models, *CLADAG 2015*, Santa Margherita di Pula, October 8--10, 2015, CUEC Editrice, ISBN 978-88-8467-749-9
- 2015 SARRA A., FONTANELLA L., VALENTINI P., PALERMI S., How dwelling characteristics impact on indoor radon concentration: a Bayesian spatial quantile regression analysis, IRANOW2015, the Italian Radon & Norm Workshop "RESEARCH ADVANCES AND APPLICATIONS" 15-17 October 2015, Fisciano, University of Salerno, Italy
- 2014 FONTANELLA L., IPPOLITI L., VALENTINI P., Regressions in Spatially Dynamic Factor Models. In *Proceedings of the 47th SIS Scientific Meeting of the Italian Statistical Society*, Cagliari, June 10-14, 2014 CUEC Cooperativa Universitaria Editrice Cagliaritana, ISBN 9788884678744
- 2014 IPPOLITI L., DI ZIO S., FONTANELLA L., MARTIN R.J., Optimal Network Designs for Spatial Prediction. *Proceedings of the METMA VII and GRASPA14 Conference*. Torino (IT), 10-12 September 2014
- 2014 IPPOLITI L., FONTANELLA L., VALENTINI P., SARRA A., PALERMI S., Bayesian Structural Equation Modeling for Factors Influencing Residential Radon Levels. In *Proceedings of the 47th SIS Scientific Meeting of the Italian Statistical Society*, Cagliari, June 10-14, 2014 CUEC Cooperativa Universitaria Editrice Cagliaritana, ISBN 9788884678744
- 2014 SARRA A., FONTANELLA L., DI ZIO S., VALENTINI P., Varying levels of anomie in Europe: a multilevel analysis based on multidimensional IRT models. COMPSTAT 2014, Geneva, Switzerland, August 19--22, 2014, Book of Abstracts
- 2014 IPPOLITI L., FONTANELLA L., DI ZIO S., MARTIN R.J. Optimal Network Designs for Spatial Prediction, METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014,
- 2014 FONTANELLA L., IPPOLITI L., SARRA A., VALENTINI P. Regression Analysis in a Data Rich Environment, METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014,
- 2013 FONTANELLA L., KUME A., IPPOLITI L., Offset normal shape distributions for dynamic shapes. In *SCO 2013 8th Conference on Complex Data Modelling and Computationally Intensive Statistical Methods for Estimation and Prediction*, Milan, September 9-11, 2013, Poliscrypt, Politecnico di Milano, ISBN 9788864930190
- 2013 DI ZIO S., FONTANELLA L., A georeferenced IRT approach for the localization of public services. In *Advances in Latent Variables - Methods, Models and Applications*, Brescia, June 19-21, 2013 Editrice VITA E PENSIERO, ISBN 9788834325568
- 2013 FONTANELLA L., FONTANELLA S., ROMAGNOLI L., Graphical methods for dimensionality reduction on manifolds. In *Advances in Latent Variables - Methods, Models and Applications*, Brescia, June 19-21, 2013, Editrice VITA E PENSIERO, ISBN 9788834325568
- 2012 FONTANELLA L., FUSILLI C., IPPOLITI L., KUME A., Modelling Facial Expressions through Shape Polynomial Regression. In *Analysis and Modeling of Complex Data in Behavioural and Social Sciences, JCS - CLADAG Anacapri*, September 3-4, 2012, Cleup, ISBN 9788861299160
- 2011 SARRA A., FONTANELLA L., DI BATTISTA T., DINISIO R., Interpreting error measurement: a case study based on Rasch tree approach. In *Proceedings of the 8th International Meeting of the CLAssification and Data Analysis Group (CLADAG)*, University of Pavia, Pavia, September 7-9, 2011, ISBN 9788896764220
- 2011 DI ZIO S., FONTANELLA L., SARRA A., Welfare attitudes in Europe: an application of IRT models to ESS data. In *Proceedings of the 8th International Meeting of the CLAssification and Data Analysis Group (CLADAG)*, Pavia, September 7-9, 2011, University of Pavia, ISBN 9788896764220
- 2011 FONTANELLA L., IPPOLITI L., VALENTINI P., FESTA F., Multilevel Functional Data Analysis of Mandibular Condyles. In *Proceedings of the 8th International Meeting of the CLAssification and Data Analysis Group (CLADAG)*, Pavia, September 7-9, 2011, University of Pavia, ISBN 9788896764220
- 2011 MARETTI M., DI ZIO S., FONTANELLA L., SARRA A. A Cross National Comparative Analysis on Civic Attitudes in Changing Welfare System, Abstract Book, ESA 10th Conference. Social Relations in Turbulent Time, Geneva 7-10/09/2011 Université de Geneve ISBN 9782940386185
- 2011 MARETTI M., FONTANELLA L., FORTUNA F. The Social Dimensions of Changing Identities and Sexualities Across the World, Abstract Book, ESA 10th Conference. Social Relations in Turbulent Time, Geneva 7-10/09/2011, Université de Geneve ISBN 9782940386185

- 2011 FONTANELLA L., IPPOLITI L., VALENTINI P., Spatial Dynamic Structural Equation Model for Multivariate Lattice Data, 45th Statistische Woche Leipzig 19- 22. September 2011
- 2010 FONTANELLA L., IPPOLITI L., VALENTINI P., A Functional Spatio-Temporal Model for Geometric Shape Analysis. In *Proceedings of the 45th SIS Scientific Meeting of the Italian Statistical Society* Padua, June 29– July 1, 2010, Cleup, ISBN 9788861295667
- 2010 FONTANELLA L., SARRA A., D'EGIDIO F., FRATTONE P., Evaluation of psychopathological characteristics in drug addicts through mixed effect Rasch Model, MTISD 2010, Chieti- Pescara, Settembre 12-15 September 2010
- 2010 BERNABEI D., DI ZIO S., FONTANELLA L., MARETTI M., Attitude towards women stereotypes: the partial credit model for questionnaire validation, MTISD 2010, Chieti- Pescara, Settembre 12-15 2010
- 2009 ARETUSI G., FONTANELLA L., IPPOLITI L., MERLA A., Texture Analysis in Thermal Infrared Imaging for Classification of Raynaud's Phenomenon. In Paganoni A., Sangalli L., Secchi P., Vantini S. S. Co. 2009. *Sixth conference. Complex data modeling and computationally intensive statistical methods for estimation and prediction*, Milano, September 14 - 16, 2009, Maggioli Editore, ISBN 9788838743856
- 2009 ARETUSI G., FONTANELLA L., IPPOLITI L., MERLA A., Supervised classification of thermal high-resolution IR images for the diagnosis of Raynaud's phenomenon. In *Proceedings of the 7th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society, Book of Short Papers*, Catania, September 9 – 11, 2009, Cleup, ISBN 9788861294066
- 2009 FONTANELLA L., TRIVISONNO S., VALENTINI P., La regressione a rango ridotto per l'analisi spaziale dei delitti di abilità in strutture fisse nelle province italiane, In Pacinelli A., d'Ovidio F.D. *Atti della Conferenza La Ricerca Sociale Partecipata*, 3-4 May 2007, Pescara. ISBN 978-88-6129-445-5
- 2009 VALENTINI P., COLI M., FONTANELLA L., IPPOLITI L., Dynamic structural equation model for spatial lattice data, 2nd International Workshop of the ERCIM Working Group on Computing & Statistics, 29-31 October 2009, Cyprus
- 2008 IPPOLITI L., VALENTINI P., FONTANELLA L., GAMERMAN D., Space-time modelling of coupled environmental variables. In *Proceedings of METMA4, International Workshop on Spatio-Temporal Modelling* Alghero, September 24-26, 2008, Editrice Democratica Sarda, ISBN 9788860250988
- 2008 VALENTINI P., FONTANELLA L., IPPOLITI L. Estimating Technical Efficiency through Reduced Rank Regression. pp.59-62. In *MTISD 2008. Methods, Models and Information Technologies for Decision Support Systems* - ISBN 9788883050602
- 2008 VALENTINI P., FONTANELLA L., IPPOLITI L., Estimating Technical Efficiency through Reduced Rank Regression, MTISD 2008, Lecce 18 - 20 September 2008
- 2008 FONTANELLA L., DI ZIO S., MERLA A., Non linearity tests for GSR signals. First Mediterranean Conference on Nonlinear Dynamics and its Applications, July 3-8, 2008 - Pescara, Italy – Poster Session
- 2007 FONTANELLA L., IPPOLITI L., Modelling Coupled Environmental Variables by Dynamic Regression Models. In *S.Co. 2007 Complex Models and Computational Intensive Methods for Estimation and Prediction* Venezia, September 6-8 2007, CLEUP, ISBN 9788861291140
- 2007 COLI M., FONTANELLA L., IPPOLITI L., MERLA A., Multiresolution KLE of Psycho-Physiological Signals. In *S.Co. 2007 Complex Models and Computational Intensive Methods for Estimation and Prediction*, Venezia, September 6-8 2007, CLEUP, ISBN 9788861291140
- 2007 FONTANELLA L., TRIVISONNO S., VALENTINI P., Scenari spaziali della delittuosità in Italia. Meeting su: La ricerca sociale partecipata, Pescara 3-4 May, 2007
- 2007 FONTANELLA L., TRIVISONNO S., SANTORI E., Analisi statistica delle opinioni nella valutazione partecipata, Meeting su: La ricerca sociale partecipata, Pescara 3-4 May, 2007
- 2006 FONTANELLA L., MARETTI M., VALENTINI P., Un algoritmo di incrocio della domanda e dell'offerta di lavoro nell'ambito del collocamento mirato: il Supply Filter Algorithm (2006), in Parodi G. *Aspetti socioeconomici della disabilità, Atti della Giornata di studio* Pescara 16 March 2006, ARACNE EDITRICE, Roma, ISBN 978-88-548-0897-3
- 2006 FONTANELLA L., IPPOLITI L., VALENTINI P. A Structural Equation Model for Environmental Pollution Analysis. In *Spatial Data Methods for Environmental and Ecological Processes*, September 14-15 2006, Foggia ISBN 9788884590787
- 2006 FONTANELLA L., IPPOLITI L., VALENTINI P., A Structural Equation Model for Environmental Pollution Analysis, Convegno su Spatial Data Methods for Environmental and Ecological Processes, 14-15 September 2006, Foggia, Poster Session

- 2005 FONTANELLA L., IPPOLITI L., TRIVISONNO S., Prediction of Spatio-Temporal Gaussian fields using the Inverse Correlation Function. In “*Sistemi Complessi e Statistica Computazionale*” S.Co. 2005 Brixen, September 15-17 2005
- 2005 FONTANELLA L., IPPOLITI L., MARDIA K.V., Exploring Spatio-Temporal Variability by Eigen-Decomposition Techniques. *Convegno Intermedio SIS “Statistica e Ambiente”* Messina September 21-23, 2005 CLEUP ISBN 8871785312
- 2002 DI ZIO S., FONTANELLA L., IPPOLITI L., Fractal Geometry for Optimal Spatial Sampling. In Aykroyd R.G., Mardia K.V. and McDonnell P. “*Statistics of Large Datasets- Functional and image data, bioinformatics and data mining*” L.A.S.R.S. Workshop – Leeds 3rd - 5th July 2002
- 2002 COLI M., FONTANELLA L., GRANTURCO M., Spectral Methods for Fractional Arfima Processes In *XLI Riunione della Società Italiana di Statistica*, Milano 6-9 June 2002
- 2002 FONTANELLA L., VALENTINI P., Multivariate Fuzzy Maps for Air Pollution in the Milan District. In Sixth International Meeting on Quantitative Methods for Applied Sciences: Statistical Methods and Techniques for Analyzing Spatial and Temporal-Spatial Data, Università di Siena, September 19-20 2002
- 2002 DI ZIO S., FONTANELLA L., IPPOLITI L., A fractal simulated annealing algorithm for optimal spatial sampling schemes. In Sixth International Meeting on Quantitative Methods for Applied Sciences: Statistical Methods and Techniques for Analyzing Spatial and Temporal-Spatial Data, Università di Siena, September 19-20 2002
- 2001 FONTANELLA L., IPPOLITI L. Wavelets and Kalman-Smoothing type Algorithms for Spatial and Spatio-Temporal Filtering. In Mardia K.V., Kent J.T. and Aykroyd R.G. *Functional and Spatial Data Analysis*. 20th L.A.S.R Workshop Leeds, 9 - 11 July, 2001 Leeds University Press.
- 2001 DI BATTISTA T., FONTANELLA L., IPPOLITI L., A Space-Time Point Source Model. In Provasi C. *Modelli S.Co. 2001 Complessi e Metodi Computazionali Intensivi per la Stima e la Previsione*. CLEUP editrice – Padova
- 2001 FONTANELLA L., GRANTURCO M., Spectral Analysis in Frequency and Time Domain for Noisy Time Series. *CLADAG*, Palermo 18-20 September, 2001
- 2000 COLI M., FONTANELLA L., IPPOLITI L., Decomposizione di Processi Stocastici Spaziali a Fini Previsivi, *XL Riunione Scientifica della SIS*, Firenze 26-28 April 2000

Pescara, 09/03/2026