Angela Andreella

ASSITANT PROFESSOR OF STATISTICS · RTT

Department of Economics and Management, University of Trento

■ angela.andreella@unitn.it | 🛪 angeella.github.io/ | 🖸 angeella | 💆 @aangeella | 🗓 0000-0002-1141-3041 Current Position _ Assistant Professor of Statistics, [RTT] SSD: STAT-01/A (Statistics), Department of Economics and 2024-now Management, University of Trento, Italy. Past experiences _ Assistant Professor of Social Statistics, [RTD-A] SSD: SECS-S/05 (Social Statistics), Department of Economics, 2022-2024 Ca' Foscari University of Venice, Italy. 2021-2021 Post-doctoral fellow, Project: A Bayesian Approach to the Procrustes-based problem. Grant: BIRD2020 (38734 euros). Department of Statistical Sciences, University of Padova, Padova, Italy. (8 months) Post-doctoral fellow, Project: Tsunami Project - Prediction of the Impact of the COVID-19 Wave on the Emergency 2020-2021 and Urgency System in Lombardy. Grant: UA.00.07 - DISAT budget 2020 (16000 euros). Department of Sciences (6 months) and Technology, University of Insubria, Varese, Italy. 2014-2015 Stage, Project: The Catalan National Movement analyzed by Twitter data. Universitat Politecnica de Catalunya, Barcelona, Spain. (1 year) 2015-2015 Stage, Project: Text-mining in marine biology. Stazione Zoologica Anton Dohrn, Napoli, Italy. (2 months) Education _ **University of Padova** Dpt of Statistical Sciences PhD in Statistics 10/2017 - 03/2021 • Supervisor: Prof. Livio Finos (University of Padova, Padova, Italy), Co-supervisors: Prof. Jelle Goeman (Leiden University Medical Center, Leiden, The Netherlands), Prof. James Haxby (Dartmouth College, Hanover, NH, USA) • Thesis title: Challenges in Functional Magnetic Resonance Imaging (fMRI) Data Analysis: From Functional Alignment to Selective Inference. **University of Padova** Dpt of Statistical Sciences 10/2013 - 03/2016 MASTER'S DEGREE IN STATISTICAL SCIENCES • Supervisor: Prof. Livio Finos (University of Padova, Padova, Italy), Co-supervisor: Prof. Marta Perez (Universitat Politecnica de Catalunya, Barcelona, Spain) • Thesis title: The Catalan National Movement analyzed by Twitter data. **University of Padova** Dpt of Statistical Sciences **BACHELOR'S DEGREE IN STATISTICAL SCIENCES** 10/2010 - 04/2013 • Supervisor: Prof. Nicola Sartori (University of Padova, Padova, Italy), Co-supervisor: Prof. Livio Finos (University of Padova, Padova, Italy) • Thesis title: Twitter Sentiment Analysis in Monti's 2013 election campaign. Liceo Classico Sciopione Maffei Verona, Italy HIGH SCHOOL DIPLOMA (CLASSICAL STUDIES) 2004-2009

Training and research activities _____

2020-2020	Short Term Scientific Mission, COST ACTION (1500 euro) , Supervisor: Antonietta Mira, Data Science Lab,
(1 week)	Università della Svizzera Italiana, Lugano, Svizzera
2019-2019	Visiting PhD Student , Supervisor: Jelle Goeman, LUMC, Department of Biomedical Data Sciences, Leiden, The
(3 months)	Netherlands
2019-2019	Visiting PhD Student, Supervisor: James Haxby, Dartmouth College, Department of Psychological and Brain
(3 months)	Sciences, Hanover, NH, USA
2013-2014	Erasmus Student , Universitat de Barcelona, Department of Mathematics and Statistics, Barcelona, Spain
(1 year)	Liasinus student, oniversitat de barcetoria, bepartment of Mathematics and Statistics, barcetoria, Spain

Direction or participation in the activities of a research group characterized by national or international collaborations

Collaborator as a statistical analyst with the Governance & Social Innovation (GSI) Center directed by Prof. Stefano Campostrini. The Center's mission is to promote social innovation processes in the logic of service management by involving all stakeholders. The collaboration led to the publication of the paper [1] presented at the Italian meeting of social statisticians in Treviso, Italy (December 2022), the publication of a conference proceeding [17,18] related to the CARMA conference, and finally, the writing of the paper [28] presented at the Italian meeting of social statisticians in Treviso, Italy (October 2023) and SIS 2024.

Member of the statistician and psychometric group (Psicostat) of the Department of Developmental and Socialization Psychology, University of Padova. The collaboration led to the publication of work [10] and several symposia at national and international conferences.

Collaborator as a statistician in the research group of Prof. P. Brambilla and Dr. G. Del Vecchio. Collaborations in the fields of neuroscience, psychology, and psychiatry have led to the publication of applied papers with high methodological content and papers presenting innovative statistical methods. The collaboration is still ongoing and has led to the publication of several papers [9], [11], [12], [13].

Member of the research group on Population Aging and Longevity (LoLa).

Member of the Global Burden of disease (GBD) Italian research group. The collaboration led to the publication of the paper [2] presented as an invited talk in two conferences (PRIN and GSI, 2023) as well as a contributed talk in another two conferences (REVES and SIS, 2023).

Research Fellow within the research program "Translating Science into Policy. A Multisectoral Approach to Adaptation and Mitigation of Adverse Effects of Vector-Borne Diseases, Environmental Pollution and Climate Change on Planetary Health (PLANET4HEALTH)" founded by the granting authority European Health and Digital Executive Agency under the Grant Agreement No.101136652

Research Fellow within the project funded by Next Generation EU - "Age-It - Ageing well in an ageing society" project (PE0000015), National Recovery and Resilience Plan (NRRP) - PE8 - Mission 4, C2, Intervention 1.3".

Awards, Fellowships, & Grants _____

2023	Teaching Award, Department of Economics, Ca' Foscari University of Venice	3000 euros
2021, 3	Grant PON, Ricerca e Innovazione: "SOciaL Innovation DAta Science", Department of	109032.09
years	Economics, Ca' Foscari University of Venice	euros
2021, 24	Grant BIRD2020: "A Bayesian Approach to the Procrustes-based problem" , Department	38734 euros
months	of Statistical Sciences, University of Padova	30/34 60/03
2021, 6	UA.00.07 – DISAT: "Tsunami Project - Prediction of the Impact of the COVID-19 Waveon	
months	the Emergency and Urgency System in Lombardy", Department of Sciences and	16000 euros
1110111115	Technology, University of Insubria	
2020	Grant for Short Term Scientific Mission, COST ACTION	1500 euros
2011	Scholarship for merit, University of Padova	2010 euros

Talks ___ Seminars

2023. The Labyrinth of Multiple Testing: how to avoid the pitfall of false positives. 12th SISMEC National Congress, Jesi, Italy.

- 2023. Graph Theoretic Foundation of Networks in R. Summer School in Network Econometrics, VERA, SIdE-IEA, Venezia, Italy.
- 2022. Moving beyond linearity. Summer School in Social Statistics, Anacapri, Italy.
- 2022. Graph Theoretic Foundation of Networks in R. Summer School in Network Econometrics, VERA, SIdE-IEA, Venezia, Italy.
- 2019. How to improve the functional alignment of fMRI data using spatial brain information?. High dimensional reading club, LUMC, Department of Biomedical Data Sciences, Leiden, The Netherlands.
- 2019. A Statistical approach to the alignment of fMRI data. Dartmouth College, Department of Psychological and Brain Sciences, Hanover, NH, USA.

INVITED TALKS

- 2024. Analyzing Comorbidity Compression in Italy: A Mixture Model with Regional Random Effects. Quattro Passi per Ca' Foscari, Venice, Italy.
- 2024. Work Realities and Behavioral Risk Factors in Italy. Quattro Passi per Ca' Foscari, Venice, Italy.
- 2023. A novel definition of Italian comorbidity. PRIN SELECT, Venice, Italy.
- 2023. A novel definition of Italian comorbidity based on PASSI and GBD disability weights. GSI, Venice, Italy.
- 2022. Enhanced hyperalignment via spatial prior information. Psicostat, Padova, Italy.
- 2020. A Statistical approach to the alignment of fMRI data. Psicostat, Padova, Italy.
- 2019. First steps with Python. Psicostat, Padova, Italy.

INVITED TALKS AS DISCUSSANT

2022. Notip: Non-parametric True Discovery Proportion control for brain imaging. International Seminar on Selective Inference, online.

CONTRIBUTED TALKS

- 2024. Analyzing Comorbidity Compression in Italy: A Mixture Model with Regional Random Effects. Italian Statistics Society (SIS), Bari, Italy.
- 2024. Work Realities and Behavioral Risk Factor in Italy. 6th International Conference on Advanced Research Methods and Analytics (CARMA), Valencia, Spain.
- 2024. Analyzing Comorbidity Compression in Italy: A Mixture Model with Regional Random Effects. General Meeting Age-It, Venice, Italy.
- 2023. Exploring Inclusivity in Early Childhood Education Services in Italy, Meeting Italian Social Statisticians, Treviso, Italy.
- 2023. Toward a power analysis and sample size estimation for PLS-based methods, International Society for Clinical Biostatistics (ISCB), Milan, Italy.
- 2023. Spatial clusters for demand and supply of childcare services in Italy, 5th International Conference on Advanced Research Methods and Analytics (CARMA), Sevilla, Spain.
- 2023. A novel definition of Italian comorbidity based on PASSI and GBD disability weights, Italian Statistics Society (SIS), Ancona, Italy.
- 2023. A novel definition of Italian comorbidity based on PASSI and GBD disability weights, Espérance de Vie et Santé (REVES), Padova, Italy.
- 2022. Spatial clusters for demand and supply of childcare services in Italy, Meeting Italian Social Statisticians, Treviso, Italy.
- 2022. Functional alignment enhances Electroencephalography (EEG) data's group analysis, Italian Psychology Association (AIP), Padova, Italy
- 2022. Valid double-dipping for fMRI cluster analysis via permutation-based selective inference, European Mathematical Psychology Group (EMPG), Rovereto, Italy
- 2022. Valid inference for group analysis of functionally aligned MRI images, Italian Statistics Society (SIS), Caserta, Italy.
- 2021. Efficient Procrustes-based functional alignment for high-dimensional data, International Biometric Society Italian Region, Milan, Italy

- 2021. pARI package: valid double-dipping via permutation-based All Resolutions Inference, useR!, Milan, Italy.
- 2021. Functional alignment by the "light" approach of the von Mises-Fisher-Procrustes model, Italian Statistics Society (SIS), Milan, Italy.
- 2021. pARI package: valid double-dipping via permutation-based All Resolutions Inference, EuroBioc, Padova, Italy.
- 2020. Quot capita, tot sententiae. Don't Forget to Use Anatomical Features into the Alignment of fMRI Data, Cognitive Science Arena, Brixen, Italy.
- 2020. *A Statistical approach to the alignment of fMRI data*, 6th European Student Conference on Behaviour & Cognition, Padova, Italy.
- 2019. A Statistical approach to the alignment of fMRI data, 12th IBS Italian Region conference, Napoli. Italy.

SYMPOSIA

- 2022. Generalized Procrustes problem allows to estimate subject-specific functional connectivity in fMRI data, International Meeting of the Psychometric Society (IMPS), Bologna, Italy.
- 2021. Generalized Procrustes problem allows to estimate subject-specific functional connectivity in fMRI data, Italian Psychology Association (AIP), Lecce, Italy.
- 2021. Predicting the Impact of COVID-19 on the Emergency Departments in Lombardy, Italy, Joint Statistical Meetings (JSM), Seattle. USA.

POSTER

- 2023. Exploring Inclusivity in Early Childhood Education Services in Italy, Meeting Italian Social Statisticians, Treviso, Italy.
- 2023. A novel definition of Italian comorbidity based on PASSI and GBD disability weights, Italian Statistics Society (SIS), Ancona, Italy.
- 2022. Procrustes analysis for high dimensional data, Statistical methods and models for complex data, Padova, Italy.
- 2020. *Improving the Functional Alignment of fMRI Data Using Special Brain Information*, Organization for Human Brain Mapping (OHBM), Montreal, Canada.
- 2020. PRDA package: Enhancing Statistical Inference via prospective and Retrospective Design Analysis, European R users meeting (eRum), Milan, Italy.
- 2019. *A Statistical approach to the alignment of fMRI data*, Zero Three, Perspectives and New Research in Psychometrics, Padova, Italy.

Teaching Experience

COURSE COORDINATOR

ay 2023-2024	Statistic , Ph.D. in Public Administration, Ca' Foscari University of Venice, Italy.	8 hours
ay 2023-2024	Health Data Science , Master's degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy. (in English)	30 hours, (6 CFU)
ay 2023-2024	Statistic, Ph.D. in Neuroscience, University of Padova, Italy. (in English)	8 hours
ay 2022-2023	Health Data Science , Master's degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy. (in English)	30 hours, (6 CFU)
ay 2022-2023	Statistic, Ph.D. in Neuroscience, University of Padova, Italy. (in English)	8 hours
ay 2022-2023	Statistic 2 , Bachelor's degree in Business Administration, Ca' Foscari University of Venice, Italy.	30 hours, (6 CFU)
ay 2020-2021	Applied statistical models (module I) , Bachelor's degree in Statistical Sciences University of Padova, Italy.	20 hours

LECTURER

ay	Statistics exercises 1-2, Bachelor's degree in Economics and Business, Ca' Foscari	30 hours
2023-2024	University of Venice, Italy.	30 110013
ay	Statistics exercises 1-2, Bachelor's degree in Economics and Business, Ca' Foscari	30 hours
2022-2023	University of Venice, Italy.	30 110013
ay	Exercises - Psychometric, Bachelor's degree in Science and Techniques Psychology,	30 hours
2022-2023	University of Padova, Italy.	30110015
ay	Laboratory - Statistical Learning for Data Science, Master's degree in Data Analytics for	10 h a ura
2021-2022	Business and Society, Ca' Foscari University of Venice, Italy. (in English)	10 hours
ay	Exercises - Psychometric, Bachelor's degree in Science and Techniques Psychology,	20 /
2021-2022	University of Padova, Italy.	30 hours
ay	Exercises - Psychometric, Bachelor's degree in Science and Techniques Psychology,	001
2020-2021	University of Padova, Italy.	30 hours
ay	Exercises - Psychometric , Bachelor's degree in Psychological Sciences of Development,	
2020-2021	Personality, and Interpersonal Relations, University of Padova, Italy.	28 hours
SEMINAR		
	Permutation-based cluster inference in Electroencephalography (EEG) data, Lecture	
ay	within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in	2 hours
2023-2024	Statistical Sciences, University of Padova, Italy.	
	Permutation-based cluster inference in Electroencephalography (EEG) data, Lecture	
ay	within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in	2 hours
2022-2023	Statistical Sciences, University of Padova, Italy.	
	Permutation-based cluster inference in Electroencephalography (EEG) data, Lecture	
ay	within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in	2 hours
2021-2022	Statistical Sciences, University of Padova, Italy.	2770070
	Permutation-based cluster inference in Electroencephalography (EEG) data, Lecture	
ay	within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in	2 hours
2020-2021	Statistical Sciences, University of Padova.	2110013
	Statistical Sciences, University of Fadova.	
C	on/Co our on vision Theorie	
Supervisi	on/Co-supervision Thesis	-
	Pigato Christian , Bachelor's thesis in Business Administration (supervisor), Department of	
March 2024	Economics, Ca' Foscari University of Venice	
	Taverna Martina , Bachelor's thesis in Business Administration (supervisor), Department of	
July 2023	Economics, Ca' Foscari University of Venice	
	Pardon Marta, Bachelor's thesis in Business Administration (supervisor), Department of	
July 2023	Economics, Ca' Foscari University of Venice	
October	Rosolin Gaia, Master's thesis in Data Analytics for Business and Society (supervisor),	
2023	Department of Economics, Ca' Foscari University of Venice	
October	·	
	Romano Elisabetta, Master's thesis in Data Analytics for Business and Society (supervisor),	
2023	Department of Economics, Ca' Foscari University of Venice	
March 2024	Sayna Eghbalpour, Master's thesis in Data Analytics for Business and Society	
	(co-supervisor), Department of Economics, Ca' Foscari University of Venice	
2021	Pilot Giovanna, Bachelor's thesis in Statistical Sciences (co-supervisor), Department of	
2021	Statistical Sciences, University of Padova	
2021	Corbetta Daniela, Master's thesis in Statistical Sciences (co-supervisor), Department of	
	Statistical Sciences, University of Padova	

2023-2024	Committee member for 2 research grants, Topic: "In-credible: pay gap and gender
	equality.", Department of Economics, Ca' Foscari University of Venice, Italy.
2023-2024	Committee member for 1 research grant, Topic: "PLUS: More Leadership and Equality for
	Development", Department of Economics, Ca' Foscari University of Venice, Italy.
	Committee member for 1 research grant, Topic: "A ROOM OF ONE'S OWN: Physical,
2023-2024	cultural and economic spaces for the development and enhancement of women's
	leadership", Department of Economics, Ca' Foscari University of Venice, Italy.
	Committee member for 1 research grant, Topic: 'Support to the data collection and
2022-2023	analysis on the economic, health, and social situation of the Veneto Region under the
2022-2023	collaboration between the University of Ca' Foscari and the Regional Council of the Veneto
	Region," Department of Economics, Ca' Foscari University of Venice, Italy.
	Committee member for 1 research grant, Topic: "Urgent measures to contain the COVID-19
2022-2023	epidemic, on SARS-CoV-2 vaccination, justice, and public competitions," Department of
	Economics, Ca' Foscari University of Venice, Italy.
	Committee member for 1 research grant, Topic: "Theoretical and data-driven study of the
2022-2023	dynamics and mechanisms that generate health inequalities among sub-populations in
2022-2023	terms of longevity and healthy aging," Department of Economics, Ca' Foscari University of
2022-2023	terms of longevity and healthy aging," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	Venice, Italy.
2022-2023	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social
	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support,"
	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and
	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part
2022-2023	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional
2022-2023	Venice, Italy. Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 2 research grants, Topic: "Uni 4 Justice, Operational Statistical
2022-2023	Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 2 research grants, Topic: "Uni 4 Justice, Operational Statistical Profiles to Support the Development of Innovative Process Office Tools," Department of
2022-2023	Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 2 research grants, Topic: "Uni 4 Justice, Operational Statistical Profiles to Support the Development of Innovative Process Office Tools," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 2 research grants, Topic: "Uni 4 Justice, Operational Statistical Profiles to Support the Development of Innovative Process Office Tools," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 4 research grants, Topic: "Uni 4 Justice, Operational
2022-2023 2022-2023 2021-2022	Committee member for 1 research grant, Topic: "Territorial governance and social innovation: methods and practice. Research coordination and methodological support," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 1 research grant, Topic: "Supporting the collection, analysis, and processing of data concerning the economic, social, and health situation in Veneto as part of the collaboration between Ca' Foscari University of Venice and the Veneto Regional Council," Department of Economics, Ca' Foscari University of Venice, Italy. Committee member for 2 research grants, Topic: "Uni 4 Justice, Operational Statistical Profiles to Support the Development of Innovative Process Office Tools," Department of Economics, Ca' Foscari University of Venice, Italy.

Outreach & Professional Development _____

LANGUAGES

Italian (mother tongue), English (C1), Spanish

ORGANIZATION OF SCIENTIFIC EVENTS

Meeting Italian Social Statisticians, 19 October 2024, Treviso, Italy, Ca' Foscari University of Venice

Meeting Italian Social Statisticians, 20 October 2023, Treviso, Italy, Ca' Foscari University of Venice

Meeting Italian Social Statisticians, 2- 3 December 2022, Treviso, Italy, Ca' Foscari University of Venice

International Winter School - MRInference: from Memberships data to knowledge, 15-19 February 2021, online, University of Padova

PROGRAMMING LANGUAGES

Statistical Packages: R Software -SPSS - SAS - STATA **Languages**: R - Python - Matlab -C++ - Markdown - SQL **Other software**: LaTeX - Gimp -FSL - GIT - Moodle

Author and/or maintainer of R packages: pARI (CRAN), pecora (CRAN), PRDA (CRAN), ARI (CRAN), rotoDistance (GitHub), alignProMises (GitHub), ARIeeg (GitHub), fMRIdata (Github), eegusta (GitHub), powerPLS (CRAN).

Author and/or maintainer of Python modules: PromisesModel.

REFEREE

Statistical Papers, Psychometrika, Biometrical Journal, Statistical Methods & Applications, International Journal of Environmental Research and Public Health, Behavioral Sciences, Animals, Journal of Affective Disorders, Intensive Care Medicine, Axioms, Symmetry, Human Brain Mapping

PROFESSIONAL MEMBERSHIPS

Italian Statistic Society (SIS), Young Italian Statistic Society (ySIS), Italian Biometrics Society (SIB), International Organization for Human Brain Mapping (OHBM), Institute of Mathematical Statistics (IMS), Italian Psychology Association (AIP)

Publications _

JOURNAL ARTICLES

- [1] **Andreella, A.**, Aliverti, E., Caldura, F., and Campostrini, S. 2024. Spatial clusters for demand and supply of early childhood education and care services in Italy. Socio-Economic Planning Sciences, 95, DOI: 10.1016/j.seps.2024.102034
- [2] **Andreella, A.**, Vesely, A., Wouter, W., and Goeman, J. 2024. Selective inference for fMRI cluster-wise analysis, issues, and recommendations for template selection: A comment on Blain et al, Imaging Neuroscience, 2: 1–7, DOI: 10.1162/imag_a_00198
- [3] **Andreella, A.**, Monasta, L., and Campostrini, S. 2023.A novel comorbidity index in Italy based on diseases detected by the surveillance system PASSI and the Global Burden of Diseases disability weights, Population Health Metrics. doi: 10.1186/s12963-023-00317-7
- [4] **Andreella, A.**, Mira, A., Balafas, S., Wit, E. C., Ruggeri, F., Nattino, G., Ghilardi, G., and Bertolini, G. 2023. A predictive model for planning emergency events rescue during COVID-19 in Lombardy, Italy. Statistical Methods and Applications. doi: 10.1007/s10260-023-00725-x
- [5] **Andreella, A.**, Finos, L., Weeda, W., Hemerik, J., and Goeman, J. 2023. Permutation-based true discovery proportions for fMRI cluster analysis. Statistics in medicine, doi: 10.1002/sim.9725
- [6] **Andreella, A.**, De Santis, R., Vesely, A. and Finos, L. 2023. Procrustes-based distances for exploring between-matrices similarity, Statistical Methods and Applications. doi: 10.1007/s10260-023-00689-y
- [7] **Andreella, A.**, Finos, L. and Lindquist, M. 2022. Enhanced hyperalignment via spatial prior information. Human Brain Mapping, doi: 10.1002/hbm.26170
- [8] **Andreella, A.** and Livio Finos. 2022. Procrustes analysis for high dimensional data. Psychometrika. doi: 10.1007/s11336-022-09859-5
- [9] Pigoni, A., Delvecchio, G., Dusi, N., Schiena, G., **Andreella, A.,** Finos, L., Cecchetto, F., Perlini, C., Rossetti, M. G., Ferro, A., Bellani, M., Lasalvia, A., Ruggeri, M. and Brambilla, P. 2022. Insula volumes in first-episode and chronic psychosis: A longitudinal MRI study. Schizophrenia Research doi:10.1016/j.schres.2021.12.048, 241, 14–23.

 Andreella, A. performed the data analysis and writing of the statistical part of the article.
- [10] Zandonella Callegher, C., Bertoldo, G., Toffalini, E., Vesely, A., **Andreella, A.**, Pastore, M. and Altoè, G. 2021. PRDA: An R package for Prospective and Retrospective Design Analysis. Journal of Open Source Software, 6(58), 2810, ISSN: 2475-9066, doi: 10.21105/joss.02810.

 Andreella, A participated in the creation of the R package.
- [11] Ciappolino, V., DelVecchio, G., Prunas, C., **Andreella, A.**, Finos, L., Caletti, E., Siri, F., Mazzocchi, A., Botturi, A., Turolo, S., Agostoni, C. and Brambilla, P. 2020. The Effect of DHA Supplementation on Cognition in Patients with Bipolar Disorder: An Exploratory Randomized Control Trial. Nutrients doi: 10.3390/nu12030708, 12(3), 708, ISSN: 2072-6643. *Andreella, A. performed the data analysis and writing of the statistical part of the article.*
- [12] Delvecchio, G., Caletti, E., Perlini, C., Siri, F. M., **Andreella, A.**, Finos, F., Bellani, M., Fabbro, F., Lasalvia, A., Bonetto, C., Cristofalo, D., Scocco, P., D'Agostino, A., Torresani, S., Imbesi, M., bellini, F., Veronese, A., Bressi, V. and Brambilla, P. 2019. Altered syntactic abilities in first-episode patients: An inner phenomenon characterizing psychosis. European

- Psychiatry doi: 10.1016/j.eurpsy.2019.08.001, 61, 119-126, ISSN: 0924-9338. *Andreella, A. performed the data analysis and writing of the statistical part of the article.*
- [13] Caletti, E., Delvecchio, G., **Andreella, A.**, Finos, L., Perlini, C., Tavano, A., Lasalvia, A., Bonetto, C., Cristofalo, D., Lamonaca, D., Ceccato, C., Pileggi, F., FaustoMazzi, F., Santonastaso, P., Ruggeri, M., Bellani, M. and Brambilla, P. 2018. Prosody abilities in a large sample of affective and nonaffective first episode psychosis patients. Comprehensive Psychiatry doi: 10.1016/j.comppsych.2018.07.004, 86, 31-38, ISSN: 0010-440X. *Andreella, A. performed the data analysis and writing of the statistical part of the article.*

REFEREED CONFERENCE PROCEEDINGS

- [14] **Andreella, A.**, Campostrini, S. 2024. Analyzing Compression of Comorbidity in Italy: A Mixture Model with Regional Random Effects. Book of the Short Papers SIS 2024, ISBN 9783031643453
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