

# Angela Andreella

ASSISTANT PROFESSOR OF SOCIAL STATISTICS · RTT

Department of Economics, Ca' Foscari University of Venice

✉ [angela.andreella@unive.it](mailto:angela.andreella@unive.it) | 🏠 [angeella.github.io/](https://angeella.github.io/) | 📧 [angeella](https://angeella.github.io/) | 🐦 [@aangeella](https://angeella.github.io/) | 📞 0000-0002-1141-3041

## Current Position

2025-now **Assistant Professor of Social Statistics, [RTT] SSD: STAT-03/B (Social Statistics)**, Department of Economics, Ca' Foscari University of Venice, Italy.

## Past experiences

- 2024-2025 **Assistant Professor of Statistics, [RTT] SSD: STAT-01/A (Statistics)**, Department of Economics and Management, University of Trento, Italy.  
(1 year)
- 2022-2024 **Assistant Professor of Social Statistics, [RTD-A] SSD: SECS-S/05 (Social Statistics)**, Department of Economics, 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)
- 2020-2021 **Post-doctoral fellow**, Project: Tsunami Project - Prediction of the Impact of the COVID-19 Wave on the Emergency and Urgency System in Lombardy. Grant: UA.00.07 – DISAT budget 2020 (16000 euros). Department of Sciences and Technology, University of Insubria, Varese, Italy.  
(6 months)
- 2014-2015 **Stage**, Project: The Catalan National Movement analyzed by Twitter data. Universitat Politècnica 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*

#### MASTER'S DEGREE IN STATISTICAL SCIENCES

*10/2013 - 03/2016*

- **Supervisor:** Prof. Livio Finos (University of Padova, Padova, Italy), **Co-supervisor:** Prof. Marta Perez (Universitat Politècnica 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*

## Abilitazione Scientifica Nazionale (ASN)

February 2025	<b>Demography and Social Statistics</b> , National Qualification for Associate Professor (ASN II fascia), STAT-03/B
November 2025	<b>Statistics</b> , National Qualification for Associate Professor (ASN II fascia), STAT-01/A

## 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)

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

---

Collaborator as a statistical analyst at the Governance & Social Innovation (**GSI**) Center, directed by Prof. Stefano Camprostrini. This collaboration resulted in the publication of the paper [4], presented at the Italian Meeting of Social Statisticians in Treviso, Italy (December 2022), two conference proceedings [23, 24] related to the CARMA conferences 2023 and 2024, and the writing of the paper [32], conference proceeding [21] presented at the Italian Meeting of Social Statisticians in Treviso, Italy (October 2023) and SIS 2024.

Member of the Statistician and Psychometric group (**Psicostat**) at the Department of Developmental and Socialization Psychology, University of Padova. This collaboration resulted in the publication of work [14] and the organization of several symposia at national and international conferences.

Collaborator as a statistician in the research group of Prof. P. Brambilla and Dr. G. Del Vecchio. This collaboration in neuroscience, psychology, and psychiatry has resulted in the publication of applied papers [13], [15], [16], [17].

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

Member of the Global Burden of Disease (**GBD**) Italian research group. This collaboration led to the publication of the paper [7], presented as an invited talk at two conferences (PRIN and GSI, 2023), as well as a contributed talk at two other conferences (REVES and SIS, 2023). The collaboration also resulted in the writing of the paper [1], presented as an invited talk at the PASSI meeting in 2024 and as a contributed talk at two conferences (SIS, AGE-IT), with corresponding conference proceedings [20]. The writing of the papers [7] and [1] also led to an invited talk in April 2025 at the AIE conference.

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**), funded by the European Health and Digital Executive Agency under Grant Agreement No. 101136652. Within the project, the paper [38] is in preparation.

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". Within the project, the paper [34] is in preparation.

Subject Matter Expert (*cultrice della materia*) at the Department of Economics, Ca' Foscari University of Venice.

## Awards, Fellowships, & Grants

---

2025	<b>Best Young SIS Contribution</b> , Young Italian Statistical Society (y-SIS), The contribution [17] was presented at SIS 2025	
2023	<b>Teaching Award</b> , Department of Economics, Ca' Foscari University of Venice	3000 euros
2021, 3 years	<b>Grant PON, Ricerca e Innovazione: "SOcial INnovation DATA Science"</b> , Department of Economics, Ca' Foscari University of Venice	109032.09 euros
2021, 24 months	<b>Grant BIRD2020: "A Bayesian Approach to the Procrustes-based problem"</b> , Department of Statistical Sciences, University of Padova	38734 euros
2021, 6 months	<b>UA.00.07 – DISAT: "Tsunami Project - Prediction of the Impact of the COVID-19 Waveon the Emergency and Urgency System in Lombardy"</b> , Department of Sciences and Technology, University of Insubria	16000 euros
2020	<b>Grant for Short Term Scientific Mission</b> , COST ACTION	1500 euros
2011	<b>Scholarship for merit</b> , University of Padova	2010 euros

## Talks

### INVITED SEMINARS

2025. *Statistical Analysis using R. The Arca Initiative: Unlocking Psychological Expertise for Academic and Business Success*, Padova, Italy.
2025. *Advances in statistical inference for longitudinal generalized linear models. BEYOND classical p-values*, Rovereto, Italy.
2024. *Graph Theoretic Foundation of Networks in R. Summer School in Network Econometrics*, VERA, SIdE-IEA, Venezia, Italy.
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

2025. *Integration of Health Surveillance Data with Global Burden of Disease Estimates for an Analysis of Comorbidity: The Italian Case*. AIE Conference, Salerno, Italy.
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.
2022. *Generalized Procrustes problem allows to estimate subject-specific functional connectivity in fMRI data*, International Meeting of the Psychometric Society (IMPS), Bologna, Italy. (symposia)
2021. *Generalized Procrustes problem allows to estimate subject-specific functional connectivity in fMRI data*, Italian Psychology Association (AIP), Lecce, Italy. (symposia)
2021. *Predicting the Impact of COVID-19 on the Emergency Departments in Lombardy, Italy*, Joint Statistical Meetings (JSM), Seattle. USA. (symposia)
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

2025. *Blockwise Resampling for Robust Fixed Effects Inference in Linear Mixed Models* Italian Statistics Society (SIS), Genova, Italy.

2025. *Joining Bayesian models to identify groups of occupations with different risk behaviors in Italy*. Popdays, Cagliari, Italy.

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.

## 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	<b>Statistic (SECS-S/01)</b> , Master Degree in Language Sciences, Ca' Foscari University of Venice, Italy. (in English)	30 hours
2025-2026		
ay	<b>Statistic (SECS-S/01)</b> , Master Degree in Language Sciences, Ca' Foscari University of Venice, Italy.	30 hours
2025-2026		
ay	<b>Statistics for Quality Control (STAT-01/A)</b> , Bachelor's degree in Economics, University of Trento, Italy.	48 hours, (8 CFU)
2024-2025		
ay	<b>Statistic (STAT-01/A)</b> , Bachelor's degree in Economics, University of Trento, Italy.	48 hours, (8 CFU)
2024-2025		
ay	<b>Statistical Surveys (STAT-03/B)</b> , Master's degree in Governance of Public Organizations, Ca' Foscari University of Venice, Italy.	30 hours, (6 CFU)
2024-2025		
ay	<b>Statistics - Social and health statistics (STAT-01/A, STAT-03/B)</b> , Ph.D. in Public Administration, Ca' Foscari University of Venice, Italy.	8 hours
2023-2024		
ay	<b>Health Data Science (SECS-S/05)</b> , Master's degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy. (in English)	30 hours, (6 CFU)
2023-2024		
ay	<b>Statistic (SECS-S/01)</b> , Ph.D. in Neuroscience, University of Padova, Italy. (in English)	8 hours
2023-2024		
ay	<b>Health Data Science (SECS-S/05)</b> , Master's degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy. (in English)	30 hours, (6 CFU)
2022-2023		
ay	<b>Statistic (SECS-S/01)</b> , Ph.D. in Neuroscience, University of Padova, Italy. (in English)	8 hours
2022-2023		
ay	<b>Statistic 2 (SECS-S/01)</b> , Bachelor's degree in Business Administration, Ca' Foscari University of Venice, Italy.	30 hours, (6 CFU)
2022-2023		
ay	<b>Applied statistical models (module I) (SECS-S/01)</b> , Bachelor's degree in Statistical Sciences, University of Padova, Italy.	20 hours
2020-2021		

### LECTURER

ay	<b>Statistics exercises 1-2 (SECS-S/01)</b> , Bachelor's degree in Economics, Ca' Foscari University of Venice, Italy.	30 hours
2024-2025		
ay	<b>Statistics exercises 1-2 (SECS-S/01)</b> , Bachelor's degree in Economics and Business, Ca' Foscari University of Venice, Italy.	30 hours
2023-2024		
ay	<b>Statistics exercises 1-2 (SECS-S/01)</b> , Bachelor's degree in Economics and Business, Ca' Foscari University of Venice, Italy.	30 hours
2022-2023		
ay	<b>Exercises/Tutor - Psychometric (M-PSI/03)</b> , Bachelor's degree in Science and Techniques Psychology, University of Padova, Italy.	30 hours
2022-2023		
ay	<b>Laboratory - Statistical Learning for Data Science (SECS-S/01)</b> , Master's degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy. (in English)	10 hours
2021-2022		
ay	<b>Exercises/Tutor - Psychometric (M-PSI/03)</b> , Bachelor's degree in Science and Techniques Psychology, University of Padova, Italy.	30 hours
2021-2022		
ay	<b>Exercises - Psychometric (M-PSI/03)</b> , Bachelor's degree in Science and Techniques Psychology, University of Padova, Italy.	30 hours
2020-2021		
ay	<b>Exercises - Psychometric (M-PSI/03)</b> , Bachelor's degree in Psychological Sciences of Development, Personality, and Interpersonal Relations, University of Padova, Italy.	28 hours
2020-2021		
<b>SEMINAR</b>		
ay	<b>Robust Inference for Generalized Linear Mixed Models: the flip2sss approach</b> , Lecture within the course "Health Data Science," Master's Degree in Data Analytics for Business and Society, Ca' Foscari University of Venice, Italy.	2 hours
2024-2025		
ay	<b>Permutation-based cluster inference in Electroencephalography (EEG) data</b> , Lecture within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in Statistical Sciences, University of Padova, Italy.	2 hours
2023-2024		
ay	<b>Permutation-based cluster inference in Electroencephalography (EEG) data</b> , Lecture within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in Statistical Sciences, University of Padova, Italy.	2 hours
2022-2023		
ay	<b>Permutation-based cluster inference in Electroencephalography (EEG) data</b> , Lecture within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in Statistical Sciences, University of Padova, Italy.	2 hours
2021-2022		
ay	<b>Permutation-based cluster inference in Electroencephalography (EEG) data</b> , Lecture within the course "Psychometrics for Cognitive Neuroscience," Master's Degree in Statistical Sciences, University of Padova.	2 hours
2020-2021		

Supervision/Co-supervision Thesis \_\_\_\_\_

ongoing	<b>Valleri Nicola</b> , PhD in Sustainability: Economics, Environment, Management and Society (supervisor), Department of Economics and Management, University of Trento
March 2025	<b>Toffoletto Francesco</b> , Master's thesis in Data Analytics for Business and Society (supervisor), Department of Economics, Ca' Foscari University of Venice
March 2025	<b>Benagli Camilla</b> , Master's thesis in Data Analytics for Business and Society (supervisor), Department of Economics, Ca' Foscari University of Venice
March 2024	<b>Pigato Christian</b> , Bachelor's thesis in Business Administration (supervisor), Department of Economics, Ca' Foscari University of Venice
July 2023	<b>Taverna Martina</b> , Bachelor's thesis in Business Administration (supervisor), Department of Economics, Ca' Foscari University of Venice
July 2023	<b>Pardon Marta</b> , Bachelor's thesis in Business Administration (supervisor), Department of Economics, Ca' Foscari University of Venice
October 2023	<b>Rosolin Gaia</b> , Master's thesis in Data Analytics for Business and Society (supervisor), Department of Economics, Ca' Foscari University of Venice
October 2023	<b>Romano Elisabetta</b> , Master's thesis in Data Analytics for Business and Society (supervisor), Department of Economics, Ca' Foscari University of Venice
March 2024	<b>Sayna Eghbalpour</b> , Master's thesis in Data Analytics for Business and Society (co-supervisor), Department of Economics, Ca' Foscari University of Venice
2021	<b>Pilot Giovanna</b> , Bachelor's thesis in Statistical Sciences (co-supervisor), Department of Statistical Sciences, University of Padova
2021	<b>Corbetta Daniela</b> , Master's thesis in Statistical Sciences (co-supervisor), Department of Statistical Sciences, University of Padova

## Institutional organizational and service activities

---

2025 - ongoing	<b>Faculty Board of the PhD Program in Sustainability: Economics, Environment, Management, and Society (SUSTEEMS)</b> , Department of Economics and Management, University of Trento, Italy.
2024 - 2025	<b>Seminar organization</b> , Department of Economics and Management, University of Trento, Italy.
2023-2024	<b>Committee member for 2 research grants</b> , Topic: "In-credible: pay gap and gender equality," Department of Economics, Ca' Foscari University of Venice, Italy.
2023-2024	<b>Committee member for 1 research grant</b> , Topic: "PLUS: More Leadership and Equality for Development," Department of Economics, Ca' Foscari University of Venice, Italy.
2023-2024	<b>Committee member for 1 research grant</b> , Topic: "A ROOM OF ONE'S OWN: Physical, cultural and economic spaces for the development and enhancement of women's leadership," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	<b>Committee member for 1 research grant</b> , Topic: "Support to the data collection and analysis on the economic, health, and social situation of the Veneto Region under the collaboration between the University of Ca' Foscari and the Regional Council of the Veneto Region," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	<b>Committee member for 1 research grant</b> , Topic: "Urgent measures to contain the COVID-19 epidemic, on SARS-CoV-2 vaccination, justice, and public competitions," Department of Economics, Ca' Foscari University of Venice, Italy.
2022-2023	<b>Committee member for 1 research grant</b> , Topic: "Theoretical and data-driven study of the dynamics and mechanisms that generate health inequalities among sub-populations in terms of longevity and healthy aging," Department of Economics, Ca' Foscari University of Venice, Italy.

- 2022-2023 **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.
- 2021-2022 **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.
- 2021-2022 **Committee member for 4 research grants**, Topic: “Uni 4 Justice, Operational legal/statistical profiles to support the development of innovative tools for the trial office,” 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), ARleeg (GitHub), fMRIdata (Github), eegusta (GitHub), powerPLS (CRAN), jointest (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, Imaging Neuroscience, PeerJ

### 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), Italian Association for Population Studies (AISP)

## Publications

---

### JOURNAL ARTICLES

- [1] **Andreella, A.**, Monasta, L. Campostrini, S. Analysis of multimorbidity compression using a latent variable in a mixed mixture model. Population Health Metrics 23, 58 (2025). [10.1186/s12963-025-00421-w](#)
- [2] **Andreella, A.**, Finos, L., Scarpa, B. and Stocchero, M. (2025), Toward Power Analysis for Partial Least Squares-Based Methods. Biometrical Journal., 67: e70050. [10.1002/bimj.70050](#)



- [3] **Andreella, A.**, Hemerik, J, Goeman, J., Finos, L. (2025). Robust inference for generalized linear mixed models: a two-stage summary statistics approach based on score sign flipping. *Psychometrika*, 1-42. [10.1017/psy.2024.22](https://doi.org/10.1017/psy.2024.22)
- [4] Kovacs, N., Mahrouseh, N., Monasta, L., **Andreella, A.**, Campostrini, S., and Varga, O. (2025). The diabetes mellitus comorbidity index in European Union member states based on the 2019 European Health Interview Survey. *Scientific Reports*, 15(1), 512. [0.1038/s41598-024-84374-4](https://doi.org/10.1038/s41598-024-84374-4)
- [5] **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](https://doi.org/10.1016/j.seps.2024.102034)
- [6] **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](https://doi.org/10.1162/imag_a_00198)
- [7] **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](https://doi.org/10.1186/s12963-023-00317-7)
- [8] **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](https://doi.org/10.1007/s10260-023-00725-x)
- [9] **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](https://doi.org/10.1002/sim.9725)
- [10] **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](https://doi.org/10.1007/s10260-023-00689-y)
- [101] **Andreella, A.**, Finos, L. and Lindquist, M. (2022). Enhanced hyperalignment via spatial prior information. *Human Brain Mapping*, doi: [10.1002/hbm.26170](https://doi.org/10.1002/hbm.26170)
- [12] **Andreella, A.** and Livio Finos. (2022). Procrustes analysis for high dimensional data. *Psychometrika*. doi: [10.1007/s11336-022-09859-5](https://doi.org/10.1007/s11336-022-09859-5)
- [13] 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](https://doi.org/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.*
- [14] 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](https://doi.org/10.21105/joss.02810).  
*Andreella, A. participated in the creation of the R package.*
- [15] 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](https://doi.org/10.3390/nu12030708), 12(3), 708, ISSN: 2072-6643.  
*Andreella, A. performed the data analysis and writing of the statistical part of the article.*
- [16] Delvecchio, G., Caletti, E., Perlini, C., Siri, F. M., **Andreella, A.**, Finos, F., Bellani, M., Fabbro, F., Lasalvia, A., Bonetto, C., Cristofalo, D., Scooco, 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](https://doi.org/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.*
- [17] Caletti, E., Delvecchio, G., **Andreella, A.**, Finos, L., Perlini, C., Tavano, A., Lasalvia, A., Bonetto, C., Cristofalo, D., Lam-onaca, 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.comppsy.2018.07.004](https://doi.org/10.1016/j.comppsy.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

- [18] **Andreella, A.**, Finos, L. 2025. Blockwise Resampling for Robust Fixed Effects Inference in Linear Mixed Models. *Book of the Short Papers SIS 2025*, DOI [10.1007/978-3-031-96303-2\\_8](https://doi.org/10.1007/978-3-031-96303-2_8)
- [19] De Santis, R., Vesely, A., **Andreella, A.** 2025. Closed-Based Testing When Multiple Quantile Regressions are Fitted. *Book of the Short Papers SIS 2025*, DOI [10.1007/978-3-031-95995-0\\_21](https://doi.org/10.1007/978-3-031-95995-0_21)

- [20] **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
- [21] **Andreella, A.**, Campostrini, S., Caldura, F., Bertarelli, G. 2024. A two-step model to analyze the inclusivity's distribution of Italian childcare services. Book of the Short Papers SIS 2024, ISBN 9783031643453
- [22] Ferraccioli, F., Finos, L., **Andreella, A.** 2024. A nonparametric test for fixed effects in crossed random effect models Book of the Short Papers SIS 2024, ISBN 9783031643453
- [23] **Andreella, A.**, Campostrini, S. 2024. Work realities and behavioral risk factors in Italy. Proceedings of the 6th International Conference on Advanced Research Methods and Analytics (CARMA 2024), 390–398, DOI: 10.4995/CARMA2024.2024.19017
- [24] **Andreella, A.**, Campostrini, S. 2023. Suitable statistical approaches for novel policies: spatial clusters of childcare's services in Veneto, Italy. Proceedings of the 5th International Conference on Advanced Research Methods and Analytics (CARMA 2023), 205–212, DOI: 10.4995/CARMA2023.2023.16439
- [25] **Andreella, A.**, Monasta, L. and Campostrini, S. 2023. A novel definition of co-morbidity based on Global Burden of Diseases weights. Book of Short Papers SIS 2023, 566–571, ISBN: 9788891935618
- [26] Vesely, A. and **Andreella, A.** 2023. How active is a genetic pathway? Comparative analysis of post-hoc permutation-based methods. Book of Short Papers SIS 2023, 1268–1273, ISBN: 9788891935618
- [27] **Andreella, A.**, De Santis, R. and Finos, L. 2022. Valid inference for group analysis of functionally aligned fMRI images. Book of Short Papers SIS 2022, 1987–1992, ISBN: 9788891932310
- [28] Vesely, A., **Andreella, A.**, Goeman, J. and Finos, L. 2022. Resampling-Based Inference for High-Dimensional Regression. Book of Short Papers SIS 2022, 1327–1332, ISBN: 9788891932310
- [29] Vesely, A., Finos, L., Goeman, J. J., and **Andreella, A.** 2021. Valid Double-Dipping via Permutation-Based Closed Testing. Book of Short Papers SIS 2021, ISBN: 9788891927361
- [30] **Andreella, A.** and Finos, L. 2021. Functional alignment by the "light" approach of the von Mises-Fisher-Procrustes model. Book of Short Papers SIS 2021, ISBN: 9788891927361
- [31] **Andreella, A.** and Finos, L. 2020. A Statistical Approach to the Alignment of fMRI Data. Book of Short Papers SIS 2020, ISBN: 9788891910776

#### UNDER REVISION OR IN PREPARATION

- [32] **Andreella, A.**, Campostrini, S., Caldura, F., Bertarelli, G. 2023. A two-step model to analyze the inclusivity distribution of Italian childcare services <https://arxiv.org/html/2407.15610v1> [major revision JRRSA]
- [33] Xu, N., Solari, A., **Andreella, A.**, Vesely, A., Goeman, J. 2024. Improve Permutation-based All-Resolution Inference by A Branch and Bound Algorithm [working paper]
- [34] Stival, M., **Andreella, A.**, Schiavon, L. 2024. Joining Bayesian models to identify groups of occupations with different risk behaviors in Italy [working paper]
- [35] Ferraccioli, F., Finos, L. **Andreella, A.** 2024. A nonparametric test for fixed effects in crossed random effect models [working paper]
- [36] **Andreella, A.**, Finos, L. 2025. Multivariate mixed models under model-free random effects specification [working paper]
- [37] De Santis, R., Vesely, A., **Andreella, A.** 2025. Inference on multiple quantiles in regression models by a rank-score approach [working paper]
- [38] Stival, M., **Andreella, A.**, Bertarelli, G., De Cian, E., Midões, C. 2025. The Perceived Influences of Environment on Health in Italy: a Penalized Ordinal Regression Approach [arXiv:2510.01803](https://arxiv.org/abs/2510.01803) [stat.AP]

#### PHD THESIS

- [39] **Andreella, A.** 2020. Challenges in Functional Magnetic Resonance Imaging (fMRI) Data Analysis: From Functional Alignment to Selective Inference.

Dichiaro che quanto riportato nel presente curriculum corrisponde a verità, ai sensi degli articoli 46 e 47 del D.P.R. 445/2000.