

Giuseppe Mignemi

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Citizenship: Italy

Current position

Postdoc Research Fellow, Bocconi Institute of Data Science and Analytics

Research supervisors: Antonio Lijoi and Igor Prünster

Research interests

Bayesian nonparametrics, mixture distributions, hierarchical Bayesian models, inter-rater reliability.

Education

- October 2020 - December 2023 **University of Padova** - Italy
PhD in Psychometrics, [PhD course in *Psychological Sciences*, XXXVI cycle]
Accepted *cum laude*.
- October 2018 - April 2020 **University of Padova** - Italy
MSc in Social, Work and Communication Psychology
Graduation grade: 110/110 *cum laude*.
- September 2015 - July 2018 **University of Catania** - Italy
BSc Psychological Sciences and Techniques
Graduation grade: 110/110 *cum laude*.
- September 2021 - July 2022 **Selected courseworks**
Theory and method of statistical inference, Computational statistics, Data mining.

Honors and scholarships

- 2020 *Mille e una Lode* Scholarship for the best students - University of Padova
Award for the top 3% best students of each university course.

Research experience

September 2022
- December 2022
Mixture polarization in inter-rater agreement analysis: a Bayesian nonparametric index
Mentor: Professor Ioanna Manolopoulou, University College London [visiting period: 3 months].

December 2022
- March 2023
Statistical modelling of peer grading
Mentors: Iirini Moustaki and Yunxiao Chen, London School of Economics [visiting period: 4 months].

Teaching experience

September 2021
- February 2022
Teaching assistant, Psychometrics [10 hours]: undergraduate course in Psychological Science - PS2192 (University of Padova)
Statistical coding and data analysis for psychological sciences.

September 2021
- February 2022
Teaching assistant, Basic research methods [8 hours]: undergraduate course in Psychological Science - PS2192 (University of Padova)
Data cleaning, descriptive statistics and coding with R.

September 2021
- December 2021
Teaching assistant, Psychological testing [20 hours]: undergraduate course in Psychological sciences of development, personality and interpersonal relationships - PS2295 (University of Padova)
Basic inferential statistics and linear algebra for psychometrics.

March 2023 -
June 2023
Teaching assistant, Introduction to statistical methods in psychology [20 hours]: undergraduate course in Psychological Science - PS2648 (University of Padova)
Linear models and latent variables models for behavioral sciences.

Communication at conferences and meetings (selected)

5 December 2024
Mignemi, G., Manolopoulou, I.
Bayesian Nonparametric Models for Multiple Raters: a General Statistical Framework [invited talk]
Computational Psychometrics Group - Czech Academy of Sciences - Prague, Czech Republic.

- 16 July 2024 **Mignemi, G.**, Manolopoulou, I.
Bayesian nonparametric HETOP models for rating data
89th annual meeting of the Psychometric Society. Prague, Czech Republic.
- 20 June 2024 **Mignemi, G.**, Chen, Y., Moustaki, I.
Statistical Analysis of Peer Grading: A Latent Variable Approach
52st scientific meeting of Italian Statistical Society - Bari, Italy.
- 23 November 2023 **Mignemi, G.**, Chen, Y., Moustaki, I.
Network of Peer Gradings: A Latent Variable Approach [invited talk]
Social Statistics Lab - London School of Economics - London, UK
- 11 September 2023 **Mignemi, G.**, Manolopoulou, I., Calcagni, A.
Groups heterogeneity in classification tasks: a Bayesian nonparametric approach
Cladag 2023 - Salerno, Italy.
- 10 July 2023 **Mignemi, G.**, Manolopoulou, I.
Inter-rater reliability in heterogeneous samples: a Bayesian semi-parametric approach [Poster]
Greek Stochastics v', Contemporary Bayesian Inference, Naxos, Greece, 7-10 July 2023.
- 27 January 2023 **Mignemi, G.**, Manolopoulou, I.
Inter-rater Agreement and cluster polarization: a Bayesian semi-parametric approach [invited talk]
Social Statistics Lab - London School of Economics - London, UK
- 15 July 2022 **Mignemi, G.**, Calcagni, A., Spoto, A.
A latent thresholds model in rating tasks and inter-rater agreement
87th annual meeting of the Psychometric Society. Bologna, Italy.
- 24 June 2022 **Mignemi, G.**, Manolopoulou, I., Spoto, A., Calcagni, A.
Latent thresholds model in classification tasks
51st scientific meeting of Italian Statistical Society - Caserta, Italy.
- 21 November 2021 **Mignemi, G.**
The Power of Statistical Power: the Sample Size in Social Psychology [invited talk]
SpecoLab, DPSS, University of Padova, Italy

Publications

- In preparation** Lijoi, A., **Mignemi, G.**, Prunster, I. Bayesian Nonparametric Estimation of Species Richness.
- Mignemi, G.**, Paganin, S. Bayesian Semiparametric Many-Facet Rasch model.
- Under review** **Mignemi, G.**, Manolopoulou, I. Bayesian Nonparametric Models for Multiple Raters: a General Statistical Framework. <https://doi.org/10.48550/arXiv.2410.21498>
- Mignemi, G.**, Chen, Y., Moustaki, I. Unfolding the Network of Peer Grades: A Latent Variable Approach. <https://doi.org/10.48550/arXiv.2410.14296>
- Published** **Mignemi, G.**, Chen, Y., Moustaki, I. Statistical Analysis of Peer Grading: A Latent Variable Approach. In: Proceedings from 52st scientific meeting of Italian Statistical Society (SIS), 22-24 June 2024, Bari, Italy (in press).
- Mignemi, G.**, Calcagni, A., Spoto, A., Manolopoulou, I. (2024). Mixture polarization in inter-rater agreement analysis: a Bayesian nonparametric index. *Statistical Methods and Applications*, 33, 325–355
- Iannattone, S., **Mignemi, G.**, Pivetta, E., Gatta, M., Sica, C., Cardi, V., Canale, N., Spoto, A., Bottesi, G. (2024). Are anxiety, depression, and stress distinguishable in Italian adolescents? an examination through the Depression Anxiety Stress Scales-21. *PloS one*, 19(2), e0299229.
- Mignemi, G.**, Manolopoulou, I., Calcagni, A. Groups heterogeneity in classification tasks: a Bayesian nonparametric approach. In: Proceedings from 14th Scientific Meeting of the Classification and Data Analysis Group (Cladag), Salerno, September 11-13, 2023. ISBN: 9788891935632
- Panzeri, A., **Mignemi, G.**, Bruno, G., Granzio, U., Scalavici, C., Bertamini, Marco, Bennett, K. M., Spoto, A., Vidotto, G. (2023). The role of the COVID-19 impersonal threat strengthening the associations of right-wing attitudes, nationalism and anti-immigrant sentiments. *Current Psychology*, 1, 3.
- Mignemi, G.**, Manolopoulou, I., Spoto, A., Calcagni, A. Latent thresholds model in classification tasks. In: Proceedings from 51st scientific meeting of Italian Statistical Society (SIS), 22-24 June 2022, Caserta, Italy. ISBN 9788891932310
- Mignemi, G.**, Panzeri, A., Granzio, U. et al. (2022). The mediating role of scientific-medical satisfaction between COVID-19 conspiracy beliefs and vaccine confidence: a two-waves structural equation model. *Journal of Behavioral Medicine*, 46, 201–211. <https://doi.org/10.1007/s10865-022-00322-5>

Panzeri, A., Bettinardi, O., Bottesi, G., Bertolotti, G., Brambatti, G., Monfredo, M., **Mignemi, G.**, Bruno, G., Vidotto, G., Spoto, A., Frattola, P., Chiesa, S. (2022) Assessment of perceived support in the context of emergency: Development and validation of the psycho-social support scale. *Current Psychology*. <https://doi.org/10.1007/s12144-022-03344-z>

Shevlin, M., Butter,..., **Mignemi, G.**, Spoto, V., Vidotto, G., Bentall, R. P. (2022). Measurement invariance of the Patient Health Questionnaire (PHQ-9) and Generalized Anxiety Disorder scale (GAD-7) across four European countries during the COVID-19 pandemic. *BMC psychiatry*, 22(1), 154. <https://doi.org/10.1186/s12888-022-03787-5>

Maeran, R., **Mignemi, G.** (2021). The role of consumer-brand engagement in tourism consumption: from user-generated content to my generated content. *Testing, Psychometrics, Methodology in Applied Psychology*, Vol. 28, pp. 505-520.

Memberships in scientific societies

2024 – Present	International Society of Bayesian Analysis
2022 – Present	Italian Statistical Society
2022 – Present	Psychometric Society
2022 – Present	Associazione Italiana di Psicologia

Technical skills

Programming languages

Familiar with: C, C++, Python.

Software

LaTeX, R, Mathematica, STAN, MATLAB.

Languages

English (fluent), French (basic), Spanish (basic).

Privacy declaration

I give consent to process my data with the purpose of the recruitment process, in accordance to the Regulation of the European Parliament 679/2016, regarding the protection of natural persons and free movement of such data According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV and application for recruiting purposes.