Giuseppe Mignemi

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Research interests

Bayesian nonparametrics, mixture distributions, hierarchical Bayesian models, interrater reliability.

Upcoming position

October 2025 - Postdoc Research Fellow,

Department of Statistical Modelling (ICS)

Czech Academy of Sciences

Research supervisor: Patricia Martinkova

Former position

February 2024 - Postdoc Research Fellow,

July 2025 Bocconi Institute of Data Science and Analytics

Bocconi University

Research supervisors: Antonio Lijoi and Igor Prünster

Education

October 2020 - University of Padova - Italy

December 2023 PhD in Psychometrics, [PhD course in Psychological Sciences, XXXVI cycle]

PhD supervisors: Andrea Spoto and Antonio Calcagnì

Accepted cum laude.

October 2018 - University of Padova - Italy

April 2020 MSc in Social, Work and Comunication Psychology

Graduation grade: 110/110 cum laude.

September 2015 University of Catania - Italy

- July 2018 BSc Psychological Sciences and Techniques

Graduation grade: 110/110 cum laude.

September 2021 Selected courseworks

- July 2022 Theory and method of statistical inference, Computational statistics, Data mining.

Honors and scholarships

2025 BNP-ISBA Junior Travel Award.

Travel support awarded by the Section on Bayesian Nonparametrics of the International Society for Bayesian Analysis. *BNP-14 World Meeting*, UCLA, Los Angeles (USA), 23-27 June 2025.

2020-2023 Merit-based PhD Fellowship

General Psychology Department - University of Padova.

2020 Mille e una Lode Scholarship.

Award for the top 3% best students of each university course.

International Research Experience

December 2022 Statistical modelling of peer grading

- March 2023 Mentors: Irini Moustaki and Yunxiao Chen, London School of Economics [visiting period: 4 months].

September 2022 Mixture polarization in inter-rater agreement analysis: a Bayesian nonpara-- December metric index

2022 Mentor: Professor Ioanna Manolopoulou, University College London [visiting period: 3 months].

Teaching experience

March 2024 - Teaching Assistant, Introduction to statistical methods in psychology [25 June 2024 hours]: undergraduate course in Psychological Science - PS2648 (University of Padova)

Linear models and latent variables models for behavioral sciences.

March 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.

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 - 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 - 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.
	Communication at conferences and meetings (selected)
20 March 2025	Mignemi, G., Manolopoulou, I. Generalized Bayesian Nonparametric Rater Models [invited talk] Centre for Educational Measurement - University of Oslo - Oslo, Norway.
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., Calcagnì, A. Groups heterogeneity in classification tasks: a Bayesian nonparametric approach <i>Cladag 2023 - Salerno, Italy.</i>

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., Calcagnì, 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., Calcagnì, A.

Latent thresholds model in classification tasks
51st scientific meeting of Italian Statistical Society - Caserta, Italy.

21 November 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. [GM1]

Mignemi, G., Paganin, S. Bayesian Semiparametric Many-Facet Rasch model. [GM2]

Published Mignemi, G., Manolopoulou, I. Bayesian Nonparametric Models for Multiple Raters: a General Statistical Framework. *Psychometrika* Published online, 1-36. [GM3]

Mignemi, G., Chen, Y., Moustaki, I. (2025) Unfolding the Network of Peer Grades: A Latent Variable Approach. *Psychometrika*. Published online, 1-22. [GM4]

Mignemi, G., Chen, Y., Moustaki, I. (2025). 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. [GM5]

Mignemi, G., Calcagnì, A., Spoto, A., Manolopoulou, I. (2024). Mixture polarization in inter-rater agreement analysis: a Bayesian nonparametric index. *Statistical Methods and Applications*, 33, 325–355.[GM6]

Mignemi, G., Manolopoulou, I., Calcagnì, A. Groups heterogeneity in classification tasks: a Bayesian nonparametric approach. In: *Proceedings from 14th Scientifc Meeting of the Classification and Data Analysis Group (Cladag)*, Salerno, September 11-13, 2023. ISBN: 9788891935632. [GM7]

Mignemi, G., Manolopoulou, I., Spoto, A., Calcagnì, 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. [GM8]

Collaborations in Social Sciences

Vicovaro, M., **Mignemi, G.**, Nucci, M., Bolognani, L., Iannattone, S., Bruno, G., and Spoto, A. (2025). A new Bayesian method for the estimation of emergency nurses' thresholds and agreement in the context of telephone triage. *Frontiers in Psychology*, 16, 1477844. [GM9]

Riccardi, A., Barbadoro, F., Margoni, M., **Mignemi, G.**, Pucci, V., Mondini, S., ... and Gallo, P. (2024). Neuropsychological Awareness in Pediatrics (NAP): proposal of a new cognitive self-report questionnaire for pediatric Multiple Sclerosis patients. *Multiple Sclerosis and Related Disorders*, 106251. [GM10]

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. [GM11]

Panzeri, A., **Mignemi, G.**, Bruno, G., Granziol, U., Scalavicci, 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. [GM12]

Mignemi, G., Panzeri, A., Granziol, U. et al. (2022). The mediating role of scientifical-medical satisfaction between COVID-19 conspiracy beliefs and vaccine confidence: a two-waves structural equation model. *Journal of Behavioral Medicine*,46, 201–211. [GM13]

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*. [GM14]

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. [GM15]

Maeran, R., **Mignemi, G.** (2022). *Psicologia del turismo, nuove forme interattive di consumo*. Bologna: Patron Editore. [GM16]

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. [GM17]

Open packages and software

RatersBNP R package for the flexible analysis of rater-mediated assessments. It implements the

method detailed in [GM3].

Github repository

GibbsSpecies R package for the species richness estimation via mixtures of symmetric Dirichlet dis-

tributions. It allows for the direct implementation of the method proposed in [GM1].

Github repository

Service to profession

Referee service: British Journal of Mathematical and Statistical Psychology

Frontiers in Psychology: Quantitative Psychology and Measurement

Research network

Membership: COMputational PSychometrics Group (ICS-CAS)

BayesLab (Bocconi University)

Psychometric Lab (LSE)

Quantitative Psychology Lab (University of Padova)

Memberships in scientific societies

2025 - Present European Association of Methodology

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, Nimble, 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.