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ACADEMIC POSITIONS

Postdoctoral researcher 2023-ongoing

Department of Economics and Statistics, University of Udine, Italy.

EDUCATION

University of Padova 2019-2023

Ph.D - Statistics

Thesis topic: Stochastic estimation methods for latent variable models.

Advisors: Ruggero Bellio, Irini Moustaki (Co- advisor) and Yunxiao Chen (Co-advisor).

Focus on: Factor models; Composite likelihood; Stochastic optimisation.

ARTICLES IN REFEREED JOURNALS

- · Alfonzetti, G., Bellio R. (2025). Scalable Inference via Averaged Robbins-Monro Bootstrap. *Applied Stochastic Models in Business and Industry 41(6),* –
- · Alfonzetti, G., Bellio R., Chen Y., Moustaki, I. (2025). When composite likelihood meets stochastic approximation. Journal of the American Statistical Association, 120(551), 1906–1918.
- · Alfonzetti, G., Bellio R., Chen Y., Moustaki, I. (2025). Pairwise stochastic approximation for confirmatory factor analysis of categorical data. *British Journal of Mathematical and Statistical Psychology*, 78(1), 22–43.

INVITED TALKS

- Scalable Composite Likelihood Estimation of Categorical Data Models with Crossed Random Effects September, 2025
 CLADAG

 Naples, Italy
- Fast M-Estimation for Exploratory Generalized Linear Latent Variable Models
 DALW
 May, 2025
 Ovronnaz, Switzerland
- Pairwise stochastic approximation for confirmatory factor analysis of categorical data
 CCDA
 October, 2024
 London, UK
- A stochastic optimisation algorithm for pairwise likelihood estimation of factor models with ordinal data August, 2022
 COMPSTAT

 Bologna, Italy

INVITED SEMINARS

· When composite likelihood meets stochastic approximations

March, 2025

Ca' Foscari University of Venice, Italy.

On the estimation of latent trait models

Social Statistics meetings, London School of Economics, London, UK.

February, 2022

PUBLICATIONS IN MONOGRAPHS

· Alfonzetti, G., Rossi, L., Zorzetto, D., Mealli, F. (2025). Model Free Estimation of Causal Effects of Different Stimuli on Neuron Activities. In Advances in Neural Data Science (Canale, A., Luati, A., Mazzuco, S., Piccarreta, R., Sartori, N., Secchi, P., editors). Springer.

PROCEEDINGS

- · Alfonzetti, G., Bellio R. (2024) Scalable bootstrap inference via averaged Robbins-Monro approximations. *Proceedings* of the Statistics and Data Science conference 2024.
- · Alfonzetti, G., Bellio R., Chen Y., Moustaki, I. (2023). Efficient stochastic learning of graphical structures for large-scale mixed data surveys. *Proceedings of the 37th International Workshop on Statistical Modelling*.
- · Alfonzetti, G., Grassetti, L., Rizzi, L. (2023). Propensity towards master's degree: choices of northern students after bas? *Proceedings of the Classification and Data Analysis Group 2023.*
- · Alfonzetti, G., Bellio R. (2022). Reliable generalized linear latent variable models estimation via simulated maximum likelihood. *Proceedings of the 36th International Workshop on Statistical Modelling*.
- · Alfonzetti, G., Bellio R. (2022). Some advances on pairwise likelihood estimation in ordinal data latent variable models. Book of Short Papers SIS 2022.
- · Alfonzetti, G., Rizzi, L., Grassetti, L., Gobbato, M. (2019). Observed expenditures vs estimated burden of health care: a comparative evaluation based on spatial analysis. *Book of Short Papers ASA 2019.*

CONTRIBUTED CONFERENCE TALKS

•	A {lavaan} extension for fast pairwise likelihood estimation of factor models for categorical	data. <i>February 2025</i>
	Psychoco	Ghent, Belgium
	Pairwise stochastic approximation for confirmatory factor analysis of categorical data.	July 2024
	IMPS	Prague, Czech Republic
	Scalable bootstrap inference via averaged Robbins-Monro approximations.	April 2024
	SDS	Palermo, Italy
	Enhancing public decision making via large-scale graphical models.	October 2023
	AQMAPPS	Milan, Italy
	Propensity towards master degree: choices of northern students after bachelors.	September 2023
	CLADAG	Salerno, Italy
	Efficient stochastic learning of graphical structures for large-scale mixed data surveys.	July 2023
	IWSM	Dortmund, Germany
	A stochastic algorithm for pairwise likelihood estimation of factor models with ordinal data.	August 2022
	COMPSTAT	Bologna, Italy
	Some advances on pairwise likelihood estimation in ordinal data latent variable models.	June 2022
	SIS	Caserta, Italy

TEACHING ACTIVITY

2025-2026

Laboratory of Statistics and Mathemathics teaching assistant, 12 hours
 Master program in International marketing, management and organization University of Udine

2024-2025

Laboratory of Statistics and Mathemathics teaching assistant, 12 hours
 Master program in International marketing, management and organization
 University of Udine

Statistica di base
 Bachelor program in business and economics

teaching assistant, 12 hours University of Udine

VISITING PERIODS

Department of Statistics of the London School of Economics. Visiting researcher under the supervision of Prof. Irini
 Moustaki and Prof. Yunxiao Chen.
 Jan – Apr 2022 — May 23

ORGANIZATION OF SCIENTIFIC EVENTS

· Co-organizer of "HackTheGene", a genomics-themed hackathon hosted by the Department of Statistical Sciences of the University of Padua in September 2022.

INSTITUTIONAL ROLES

· Served as student representative in the PhD faculty board 2019-2022 at the Department of Statistical Sciences of the University of Padua.