





## INFO

-  giuseppe.alfonzetti@uniud.it
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### RESEARCH INTERESTS:

- Applied statistics;
- Factor models;
- Composite likelihood;
- Stochastic optimisation;
- Computational methods.

## TECHNICAL SKILLS

C++ 3+ yrs

Experience with Eigen, CppAD, openMP.

Linux 5+ yrs

Experience with Arch and Debian-based os and bash scripting.

R 5+ yrs

Experience, among the others, with the Tidyverse ecosystem, Rcpp, Shiny and RMarkdown.

## LANGUAGES

English

Spanish

# GIUSEPPE ALFONZETTI

Postdoctoral research fellow - Statistics

## ACADEMIC POSITIONS

Postdoctoral researcher - Statistics  
University of Udine - Udine, Italy.

2023 - ongoing

## EDUCATION

Ph.D. - Statistical Sciences  
University of Padova - Padova, Italy.

2019 - 2023

- 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.

M.Sc. - Economics (Double Degree)  
University of Udine - Udine, Italy.

2017 - 2019

- Thesis topic: Deepening Spatial Heterogeneity of Elderly Healthcare Burden Evolution.
- Advisor: Laura Rizzi.
- Double degree program with Karl-Franzens-Universität - Graz, Austria.
- Passed with **110/110 cum Laude**.

B. - Economics  
University of Udine - Udine, Italy.

2014 - 2017

- Passed with **110/110 cum Laude**.

## VISITING PERIODS

Department of Statistics of the London School of Economics. Visiting researcher under the supervision of Prof. Irini Moustaki and Dr. Yunxiao Chen.  
London, UK.

Jan-Apr 22 | May 23

## AWARDS

### Selected Participant

Research Camp, San Servolo Island, Venice, Italy. (July 2022).

### Best graduate student in Economics.

Academic year 2018-2019.

### Best third-year undergraduate student in Economics.

Academic year 2016-2017.

### Best first-year undergraduate student in Economics.

Academic year 2014-2015.

## INSTITUTIONAL ROLES

Student representative in the PhD faculty board  
2019-2022.

## MEMBERSHIPS

Italian Statistical Society (SIS)  
2022-ongoing

## TALKS

Enhancing public decision making via large-scale graphical models.

**AQMAPPS2023, Milano, Italy.**

October 2023

Propensity towards master degree: Choices of northern students after bachelors.

**CLADAG2023, Salerno, Italy.**

September 2023

Efficient stochastic learning of graphical structures for large-scale mixed data surveys.

**IWSM2023, Dortmund, Germany.**

July 2023

A stochastic optimisation algorithm for pairwise likelihood estimation of factor models with ordinal data.

**COMPSTAT2022 (Invited), Bologna, Italy.**

August 2022

Some advances on pairwise likelihood estimation in ordinal data latent variable models.

**SIS2022, Caserta, Italy.**

June 2022

## SEMINARS

On the estimation of latent trait models.

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

February 2022

## POSTER SESSIONS

A stochastic optimization algorithm for pairwise likelihood estimation of factor models with ordinal data.

*Alfonzetti, G., Bellio, R., Chen Y., Moustaki, I.*

**Statistical methods and models for complex data, Padua, Italy.**

September 2022

Downloadable at <https://800years.stat.unipd.it>

Reliable generalized linear latent variable models estimation via simulated maximum likelihood.

*Alfonzetti, G., Bellio, R.*

**IWSM, Trieste, Italy.**

July 2022

## REFEREED CONFERENCE PROCEEDINGS

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* [ISBN 78-3-947323-425].

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* [ISBN 9788891935632].

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* [\[ISBN 978-88-5511-309-0\]](#).

Alfonzetti, G., Bellio R. (2022). Some advances on pairwise likelihood estimation in ordinal data latent variable models. *Book of Short Papers SIS2022* [\[ISBN 978-88-9193-231-0\]](#).

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 ASA2019* [\[ISBN 978-88-5495-135-8\]](#).

## **ORGANIZATION OF SCIENTIFIC EVENTS**

Co-organizer of the first edition of "HackTheGene", a genomics-themed hackathon hosted by the Department of Statistical Sciences of the University of Padova.  
[Padua, Italy.](#)

**September 2022**

## **TEACHING EXPERIENCE**

**Statistics Tutor**  
[University of Udine, Udine, Italy.](#)

**May - Jul 2019**

Bachelor's degree in economics. Statistics, exercises.