






## INFO

-  giuseppe.alfonzetti@phd.unipd.it
-  giuseppealfonzetti
-  giuseppealfonzetti
-  giuseppealfonzetti.github.io
-  16/04/1995

## RESEARCH INTERESTS:

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

## TECHNICAL SKILLS

- C++** 2+ 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

Ph.D. Student - Statistics

## EDUCATION

- Ph.D. - Statistical Sciences** 2019 - ongoing  
**University of Padua - Padua, Italy.**
  - 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)** 2017 - 2019  
**University of Udine - Udine, Italy.**
  - 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** 2014 - 2017  
**University of Udine - Udine, Italy.**
  - 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 2022

## TALKS

- 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

## 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

## 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. (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 Padua.  
**Padua, Italy.**

September 2022

## TEACHING EXPERIENCE

**Statistics Tutor**  
**University of Udine, Udine, Italy.**

May - Jul 2019

Bachelor's degree in economics. Statistics, exercises.