GIUSEPPE ALFONZETTI

Ph.D. Student - Statistics

INFO

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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

ACADEMIC POSITIONS

Postdoctoral researcher - Statistics — **2023 - ongoing**

University of Udine - Udine, Italy.

EDUCATION

Ph.D. - Statistical Sciences — **2019 - 2023**

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

Jan-Apr 2022

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

London, UK.

TALKS

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

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. (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 **May - Jul 2019**

University of Udine, Udine, Italy.

Bachelor's degree in economics. Statistics, exercises.