

Curriculum Vitae

Personal information

- Alessandro Colombi, born in Milan, Italy, 27/12/96.
- Living in Milan, Italy.
- e-mail: a.colombi10@campus.unimib.it

Education

- November 2021 - present: **PhD candidate in Statistics**
Department of Economics, Statistics and Management (DEMS)
University of Milano-Bicocca, Milan (Italy)
- Sept. 2018 - April 2021: **M.Sc in Mathematical Engineering**
Politecnico di Milano, Milan (Italy)
Final Mark: 110/110 cum Laude
Thesis: *Learning Block Structured Graphs in Gaussian Graphical Models*
Supervisor: Alessandra Guglielmi
Co-Supervisors: Lucia Paci, Alessia Pini
- Sept. 2015 - Sept. 2018: **B.Sc in Mathematical Engineering**
Politecnico di Milano, Milan (Italy)
Final mark: 110/110 cum Laude
Thesis: *Una soluzione esatta di un sistema preda-predatore diffusivo*
Supervisor: Maurizio Verri

Publications in refereed Journals

- Laura Codazzi, Alessandro Colombi, Matteo Gianella, Raffaele Argiento, Lucia Paci, Alessia Pini, Gaussian graphical modeling for spectrometric data analysis, Computational Statistics & Data Analysis, 2022, 107416, ISSN 0167-9473, <https://doi.org/10.1016/j.csda.2021.107416>.

Conference proceedings

- Alessandro Colombi, Block Structured Graph Priors in Gaussian Graphical Models, BaYSM proceedings, 2022, *accepted*.
- Codazzi L., Colombi A., Gianella M., Argiento R., Paci L., Pini A., (2020) Functional Graphical Model for Spectrometric Data Analysis. In Pollice A, Salvati N., Schirripa S (Eds), Book of short papers SIS 2020, Pearson, pp 852 - 856, ISBN 9788891910776.

Conferences

- ISBA, June 27 - July 01, 2022. **Invited** Talk: Block structured Gaussian graphical models for spectrometric functional data.
- ISBA, June 28 - July 02, 2021. Talk: Learning Block Graphs Structures in Gaussian Graphical Models.
- 5th International Workshop on Functional and Operatorial Statistics, June 23 – 25, 2021. Talk/Poster: Functional graphical model for spectrometric data analysis.
- BAYSM, September 1 - 3, 2021. Talk/Poster: Learning Block Graphs Structures in Gaussian Graphical Models.

Awards

- Best talk in Applications and Computation, BAYSM, 2021.
- Travel grant to attend the ISBA 2022 World Meeting in Montreal, Canada.

Software

- Author and Maintainer of R package "BGSL - Bayesian Structural Learning of Block Graphs", <https://github.com/alessandrocolombi/BGSL>.
- Co-Author and Maintainer of R package "FGM - Functional Graphical Models", <https://github.com/TeoGiane/FGM>.

Teaching

Università Cattolica del Sacro Cuore, Milan, Italy :

Master's degree in Data analytics for business

- *Applied Linear Models* (teaching assistant, AY 2021-2022, 15 hrs)

Politecnico di Milano, Milan, Italy :

Master's degree in Mathematical Engineering

- *Bayesian Statistics* (tutor, AY 2021-2022, 13 hrs; AY 2022-2023 10 hrs)

Experiences

- Lake Como school in advanced studies,
Robust Statistics: Foundations and Recent Developments, May 2-6, 2022.