Gherardini Luca

Date of birth 1994-10-27
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The best thing about being a statistician is that you get to play in everyone's backyard - John Tukey

Educational Background

2021–2024 **PhD Statistical Sciences**, Department of Statistical Sciences - University of Florence , Florence, Italy.

2018–2020 **MSc Statistical Sciences**, Department of Statistical Sciences - University of Padova , Padova, Italy..

2013–2017 **BSc Economics**, School of Economics and Management - University of Florence, Florence, Italy.
Major in Economics

Theses

PhD Thesis

Title Dynamic models for the analysis of complex data structures.
- : Dynamic network models with time-varying nodes (with Monia Lupparelli and Mauro Bernardi).
- : Dynamic variable selection (with prof. David Rossell, UPF).
- : Dynamic Stochastic Blockmodel for vector autoregression.

Advisors Monia Lupparelli, Mauro Bernardi, David Rossell

MSc Thesis

Title Computer Vision: A dynamical Approach

Advisor Professor Mauro Bernardi

BSc Thesis

Title Economic growth between sustainability environmental, institutional and social quality: a new GDP paradigm. (Econometrics)

Advisor Professor Giampiero Maria Gallo

About me

I'm extremely passionate about statistics. In particular my research interests revolve around computational and statistical methods/applications in time series settings.

Publications

- Gherardini L., Bernardi M., Lupparelli M. Dynamic network models with time-varying nodes. **Statistical Learning, Sustainability and Impact Evaluation, Pearson**, pp. 1-6. (2023).

- F. Scalorbi, G. Argiroffi, M. Baccini, L. Gherardini, V. Fuoco, N. Prinzi, S. Pusceddu, E. M. Garanzini, G. Centonze, M. Kirienko, E. Seregni, M. Milione, M. Maccauro. Application of FLIC model to predict adverse events onset in neuroendocrine tumors treated with PRRT. **Scientif Reports** (2021).

- E. Bertelli, et al. Machine and deep learning prediction of prostate cancer aggressiveness using multiparametric MRI. **Frontiers in Oncology** (2021)

- G. Cereda, C. Viscardi, L Gherardini, F. Mealli, M. Baccini. A SIRD model calibrated on deaths to investigate the second wave of the SARS-CoV-2 epidemic in Italy. **Epidemiologia e Prevenzione** (2020).

Professional Experience

2020 – 2021 **Research Fellow**, Department of Statistical Sciences - University of Florence , Florence, Italy.

Research Title Statistical Analysis of high dimensional health data.

Advisor Professor Michela Baccini

Teaching

2020 – 2021 **Master in Data Science and Statistical Learning**, University of Florence.
ML for Biostatistics.

2022 – 2023 **Data science for economics, Statistics (advanded), Statistical learning, Time Series**.
Tutoring at University of Florence

Languages

Italian Native

English B2

Spanish Basic

Skills

Programming R, Matlab (basic), Stata, SAS (basic),C++, Python (basic),LaTeX.

Tools Rstudio, h2O Machine Learning, SparklyR, AWS, R-Shiny

Other Skills Team Working, Data visualization, Presentation

Talks

Compstat 2024 Conference,Giessen, 27-30 August 2024. Presentation (invited) of '*Dynamic network models with time-varying nodes*'

CMStatistics 2023 Conference,Berlin, 16-18 December, 2023. Presentation (contributed) of '*Dynamic network models with time-varying nodes*'

SIS2023 Conference, Università Politecnica delle Marche, Ancona, June 2023, Italy. Presentation (contributed) of '*Dynamic network models with time-varying nodes*'