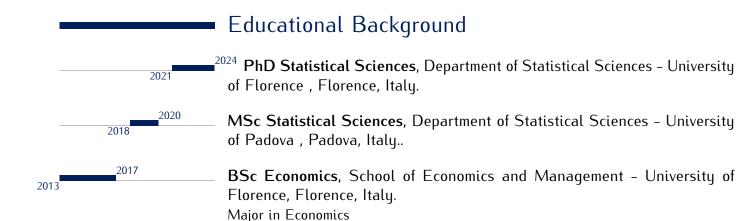
Gherardini Luca



The best thing about being a statistician is that you get to play in everyone's backyard - John Tukey



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

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



Master in Data Science and Statistical Learning, University of Florence. ML for Biostatistics.

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), LTFX.

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*'