

Alessio Serafini

Curriculum Vitae

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Research Interests

Model-Based clustering; Gaussian Finite Mixture modelling; Computational statistics; Genetic algorithms; Dimension reduction methods; Missing Values; Anomaly detection problem; R programming

Education

- 2014 - 2017 **Ph.D. in Quantitative Methods for Economics**, *Università degli studi di Perugia, Perugia, Italy.*
Thesis: *Model-based clustering: handling missing data, projection pursuit, and anomaly detection (Under review for final defense and evaluation)*
Supervisor: Prof. Luca Scrucca
- 2010 - 2013 **Master Degree in Finance, Summa cum laude**, *Università degli Studi di Roma "La Sapienza", Rome, Italy.*
Specialized in Financial Mathematics
- 2007 - 2010 **Bachelor's degree in Economics**, *Università degli Studi di Roma "La Sapienza", Rome, Italy.*

Teaching Experiences

- 2016 - 2017 **Teaching assistance for the course of Statistics**, *Università degli studi di Perugia, Perugia, Italy .*

Visiting Position

- January - July 2016 **Visiting Scholar at Department of Mathematics and Statistics**, *University College of Dublin, Dublin, Ireland.*
Supervisor: Thomas Brendan Murphy

Conferences & Workshops

- 16-22 July 2017 **Working Group on Model-Based Clustering (WGMBC)**, *Università degli studi di Perugia, Perugia, Italy.*
Poster Session: *Evolutionary projection pursuit based on Gaussian mixtures.*
- 16-22 July 2017 **Working Group on Model-Based Clustering (WGMBC)**, *Università degli studi di Perugia, Perugia, Italy.*
Handling missing data in model-based clustering (T.B.Murphy, Luca Scrucca, Alessio Serafini),
Speaker: T.B.Murphy

5-7 **Workshop on Model-Based Clustering and Classification (MBC2)**, *Università*
September *di Catania, Catania, Italy.*
2016

14-17 June **Research Student's Conference in Probability and Statistics**, *University College*
2016 *of Dublin, Dublin, Ireland.*

Other Activities

August - **Thesis Project in Credit Risk**, *European Investment Bank, Luxembourg City,*
December *Luxembourg.*
2012

January - **Erasmus Program**, *University of Bern, Bern, Switzerland.*
June 2010

Languages

Italian Mother tongue
English Intermediate

Computer skills

Programming C, C++
Softwares R, MATLAB
OS Linux (Ubuntu, Arch, Mint), MacOS, Microsoft Windows
Others \LaTeX , MARKDOWN, RMARKDOWN, Microsoft Office suite, OpenOffice