

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome SAMANTHA
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FORMAZIONE TITOLI

- 11/2017 - 12/2020
PhD Economics, Management and Statistics, University of Messina & University of Catania
Title of thesis: "Disorientation towards routine immunization, COVID-19 anxiety, and propensity to vaccinate. An analysis based on Twitter data in Italy"
Supervisors Prof. Angelo Mazza, Prof. Piero Manfredi
Thesis defended on Dec 21 - 2020
- 01/2017 - 05/2018
II level University Master Degree in Big Data Analytics & Social Mining, University of Pisa
Title of thesis: "Urban Traffic Analysis via GPS Trajectories"
- 02/2013 - 07/2016
Master's Degree in Economics, University of Pisa & Sant'Anna School of Advanced Studies - Pisa
Title of thesis: "Option Pricing with Monte Carlo Simulation and Variance Reduction Technique"
Supervisor Prof. Riccardo Cambini.
- 06/2022 Summer School in Network Econometrics, Italian Society of Econometrics - Ca' Foscari University of Venice
The aim of the course is to provide the fundamentals of the econometrics network with particular reference to the Network mapping and visualisation, the Network Extraction Methods, Multi-layer Network Models and their applications to finance.
- 12/2019 Fundamental of Digital and Computational Demography, Max Planck Institute for Demographic Research, Rostock
The course provides tools to improve demographic analysis in demography and social science methods, to interpret new kinds of data, focusing in particular on big data.
- 07/2019 Summer School in Data Science and Epidemic Models, University of Trento
This international summer school aims to present state-of-the-art techniques to improve our understanding of epidemic dynamics and spread, by means of innovative computational and statistical methods to extract information also from social media, and complex network data.
- 05/2018 Summer School on Clustering, Data Analysis and Visualization of Complex Data, University of Catania
The course is intended to achieve postgraduate training in special areas of statistics for both researchers and professional data analysts. The focus is on classification and clustering methods, with attention to visualization techniques and on modern high-dimensional data sets (MHDS).

ATTIVITA' DIDATTICA

- 2023 - Mathematics for Business, University of Palermo, Palermo
Tenure track of the course of Mathematics for Business. This course covers fundamental and advanced mathematical concepts for business, including calculus, algebra, and financial mathematics, focusing on practical applications in economic and financial contexts.
- 2022 - 2023

Teaching assistant in Political Economy, Department of Law, University of Palermo, Palermo
- 2021 - 2022
Contract Professor of Advanced Application of Computer Science for Cultural Heritage, Ca' Foscari University, Venice
I supplied extra classes of basics of R and network analysis with interactive training.
- 2018 - 2020
Senior Tutor of Statistics, University of Catania
In this tutoring period I taught the student of Statistical Economics with a review of the statistical theory and exercises.
- 2018 - 2020
Senior Tutor of Data Science and Demography, University of Catania
I taught the students of Demography class basics of Data Science, using the twitter-API in order to apply sentiment and classification analysis with R.

RICERCHE FINANZIATE

- *GRINS - Growing Resilient, Inclusive and Sustainable* Grins produces frontier research in the economic-political-social science and data science spectrum to provide scientific evidence to guide public policy as well as the choices of citizens and companies in complex decision-making contexts.

ASSOCIAZIONI SCIENTIFICHE

AMASES

PUBBLICAZIONE

- ESG factors and sovereign debt. *Economia Italiana* 46(3), 145-164 Published: April, 2025 - 10.57621/EI2024-03-I-06
- Debt Sustainability in the Context of Population Ageing: A Risk Management Approach. *Risks* 12(12) - Published: November 26, 2024 - 10.3390/risks12120188
- Evidence of disorientation towards immunization on online social media after contrasting political communication on vaccines. Results from an analysis of Twitter data in Italy. *PlosOne* - Published: July 9, 2021 - <https://doi.org/10.1371/journal.pone.0253569>

ATTIVITA' SCIENTIFICHE

- **Refereeing**
 - Reviewer of research paper for: *Annals of Operations Research*, *PlosOne*
- **Presentation and Seminars**
 - University of Pisa - Are Bad Governments a Threat to Sovereign Defaults? The Effects of Political Risk on Debt Sustainability, November, 5 2024.
 - AMASES (Italian Association for Mathematics Applied to Social and Economic Sciences) - XLVIII Annual Conference 2022 - Political risk and sovereign debt sustainability, 5 - 7 September 2024, Ischia.
 - SIDE (Italian Society of Law and Economics) Lumsa University - 18th Annual Conference 2022 - The Impact of Ratification of Human Rights Treaties on Economic Inequality, 15-16 December 2022, Palerm.
 - EASP European Population Conference - 2020 Evidence of distrust and disorientation towards immunization on online social media after contrasting political communication on vaccines. Results from an analysis of Twitter data in Italy. Health and Wellbeing in a Digital World session. June 22-27, 2020
 - PAA (Population Association of America) 2020 - Flash Session. Are the last eighteen months of contrasting vaccine policy in Italy creating distrust and disorientation amongst the public? Results from sentiment analysis of Twitter data. April 22-25, 2020 Washington D.C. (USA). Cancelled due to COVID-19 Pandemic.
 - Data Science & Social Research - 2019 Bicocca University Milan. Working Paper in Investigating Vaccine Sentiment In Italy Over A Period Of Ambiguous Immunization Policy. February 4-5, 2019.
 - POPDAYS - Giornate di studio sulla Popolazione 2019. Bocconi University - Milan: Working paper in An Analysis of Twitter Vaccine Sentiment in Response to Ambiguity in the Latest Vaccine Policies in Italy. 24-26 January 2019
- **Scientific and Organizing Committee**
 - Member of Scientific Committee - The International Conference on Frontiers in Stochastic Modelling for Finance - University of Palermo - 25-27 October 2023
 - Member of Organizing Committee - XXVI Quantitative Finance Workshop - University of Palermo - 15-17 April 2025

AMBITI DI RICERCA

- Debt Sustainability Analysis
- Network Analysis
- Inequality
- Natural Language Process
- Sentiment Analysis