

Ilaria Stanzani

RESEARCHER IN COMPUTER SCIENCE



ABOUT ME

I am a Research fellow for University of Genova. My interests are mainly focused on Machine Learning, i.e. the application of ML algorithms as tools for the analysis of current topics, Digital Epidemiology and Computational Social Sciences.

COMPUTER SKILLS

- PYTHON
(pandas, geopandas, numpy, scikit-learn, matplotlib, seaborn)
- R
- C++
- OFFICE PACKAGE
- GOOGLE WORKSPACE

LANGUAGES

- Italian - Native Speaker
- English - Advanced
- Spanish - Basic

EDUCATION HISTORY

University of Turin

Master Degree in Physics of Complex System (110/110 cum Laude), Sept 2019 -April 2022

- Data Mining, Statistical Modeling and Machine Learning
- Physics of the complexity in social systems
- Digital Epidemiology
- Neural Networks
- Introduction to Game Theory and networks

Thesis project:

"Studying eating disorders and other attitudes toward nutrition and health on Twitter during the COVID epidemic"

SUPERVISOR: Dr. Yelena Mejova

(Article in preparation for JMIR)

Alma Mater Studiorum, University of Bologna

Bachelor Degree in Physics (107/110), Sept 2016- Sept 2019

Thesis Project:

"Coherent States in Light and Matter"

SUPERVISOR: Dr. Elisa Ercolessi

WORK EXPERIENCE

University of Genova

Research fellow

July 2023- Ongoing

"Study and definition of ethical-AI methods and good practice for structured, temporal and multimodal data"

Supervisor: Prof. Annalisa Barla

Department of Computer Science, Bioengineering, Robotics and Systems Engineering (DIBRIS)

ISI Foundation

Jr Researcher

May 2022-April2023

Lagrange Fellowship, funded by CRT Foundation

Research topic:

Urban election dynamics: Analysis and visualization of voting patterns in Italian cities.

The aim of this project is the analysis of voting dynamics in an urban context and the relationship between voting dynamics and the socio-economic context.

I worked on electoral and socio economics data in Italian cities to unveil, characterize and visualize common electoral clusters, combining geospatial and socioeconomic information using machine learning approaches and data visualization.

SUPERVISORS: Laetitia Gauvin, Marco Quaggiotto, Michele Tizzoni

TRAINEESHIP/SCHOOLS

University of Genova

Summer School in "Modern Topics in Machine Learning"

June 2023

Advanced machine learning course covering some of the topics of interest in modern machine learning like: implicit regularization, sketching, reinforcement learning, machine learning for inverse problems, optimal transport for machine learning, fairness in machine learning.

Universidad de Cádiz

Post-graduate Traineeship (ERASMUS+)

May 2022-June 2022

Analysis of the trends of deaths of despair (suicides, death by overdose or alcohol) in relation at the size and the population of cities in USA, related to the period of COVID19.

SUPERVISOR: Prof. Javier Galvez-Alvares (UCA)