etro Sillano

Turin, Italy

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Education

MSc. in Physics of Complex Systems

UNIVERSITY OF TURIN GPA = 4.0

BSc. in Physics Engineering

POLYTECHNIC OF TURIN Bachelor Thesis: "Modelling Competing Endogenous RNA Networks" with A. Pagnani

Skills

Proficiency	•	Python: Numpy, Scipy, Pandas, Matplotlib Machine Learning and Deep Learning: Scikit-learn, Keras, PyTorch
Basic proficiency	•	C, Julia, Fortran
erative knowledge	•	Linux, git, Latex, Slurm
		Italian: Native

- Languages
- Italian: Native • English: IELTS Academic Test - 6.5 (2018)

Experience

Visiting Research Student

SISSA

Op

I worked on my Master's thesis at SISSA with A. Rosa on polymer models of nuclear chromatin

Visiting Research Student

NICOLAUS COPERNICUS UNIVERSITY

Collaborated with History Department to design a modern approach of analyzing Latin text exploiting Natural Language Processing methods (based on **BERT**).

Member

MACHINE LEARNING JOURNAL CLUB

- It's a student organization which aims to explore the most recent applications of AI, along with the creation of open source content
- I work in designing and developing several Machine Learning projects involving Medical AI and Brain Computer Interfaces
- Co-supervising a project on Neurofeedback based on OpenBCI devices. In charge of the EEG data acquisition and data analysis.

Teaching Assistant

UNIVERSITY OF TURIN

- Physics laboratory II 50 hours
- Introduction to scientific programming 50 hours
- Preparation and evaluation of introductory Math exams 50 hours

Relevant Projects

r/place Network Analysis 🖓

NETWORK ANALYSIS AND VISUALIZATION OF R/PLACE EVENT

- Application and testing of different community detection algorithms
- · Analysis and visualization of large networks data

Sindy Pendulum 🖓

RECOVER MINIMAL PHYSICS DYNAMICAL MODELS FROM HIGH DIMENSIONAL DATA

- Identification of parsimonious dynamical models from high dimensional data with Autoencoder neural network
- Improved my knowledge on code a neural network architecture with PyTorch library

MAY 11, 2023

Turin, Italy Oct. 2020 - April 2023

Turin, Italy Oct. 2017 - Oct. 2020

Trieste, Italy October 2022 - April 2023

Torun, Poland

Turin, Italy

2021 – Present

2021 – Present

Summer 2022

Turin, Italy

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