

Pietro Sillano

MSc. PHYSICS STUDENT

Turin, Italy

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Interests of Research

My main interest is applying methods and frameworks from **Physics** in other fields like:

- System Biology
- Link between statistical mechanics and Deep Learning
- Computational Neuroscience

Education

Master's Degree in Physics of Complex Systems

UNIVERSITY OF TURIN

Turin, Italy

Oct. 2020 - Present

B.S. in Physics Engineering

POLYTECHNIC OF TURIN

Turin, Italy

Oct. 2017 - Oct. 2020

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

Skills

Proficiency

- **Python:** Numpy, Scipy, Pandas, Matplotlib, Scikit-Learn
- Machine Learning and Deep Learning: Scikit-learn, Keras, PyTorch

Basic proficiency

- C++, Foundations of OOP (ROOT Framework)

Operative knowledge

- Linux, git, Latex

Languages

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

Experience

Visiting Research Student

NICOLAUS COPERNICUS UNIVERSITY

Torun, Poland

July 2021

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

Turin, Italy

2021 - Present

- 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 Natural Language Processing and Brain Computer Interfaces.
- I co-supervised an EEG-based project on **Neurofeedback**.

Student Tutor

UNIVERSITY OF TURIN

Turin, Italy

2020 - Present

Class and lab assistance for *Physics I*, *Physics Laboratory I* and *Introduction to Scientific Programming*.

Member

TEAM POLICUMBENT (POLYTECHNIC OF TURIN)

Turin, Italy

2019

It's a student team which aims to design and build from scratch a recumbent-like bike, join an international competition (**WHPSC** race) trying to break the human-powered land speed record. I worked on the Python library for the **telemetry system** interface, based on RaspberryPi board, several bio-sensors and an Xbee radio module.