



Lorenzo Gregoris

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Education

Sapienza University of Rome

Master's degree in Applied Mathematics & Data Science

Feb. 2022 - Jul. 2024

- **Coursework:** Advanced probability, Stochastic processes, Statistical Mechanics, Combinatorics and Graph Theory, Numerical linear algebra, Computational mathematics, Theory of algorithms, Deep Learning.
- **Final mark:** 110/110 *cum laude*

Bachelor's degree in Physics

Sep. 2018 - Dec. 2021

- **Coursework:** Computational physics, Mathematical logic and computability, Machine learning, Probability and Inference, Vector Analysis, Linear Algebra, Classical and Modern physics.
- **Final mark:** 110/110

Main interests: Statistical Mechanics and Critical Phenomena, Combinatorics and Graph theory, Computational complexity.

Experiences

- Member of Sapienza's cyber security Team, Cyberchallenge.it 2022.
- Mathematics and Physics substitute teacher for a semester at Liceo scientifico G.B. Morgagni.

Projects

- Built a transformer model with PyTorch to solve simple mathematics questions.
- Wrote a Python package to simulate random loop models for my Master's thesis.
- Built a machine learning model with Keras to classify quark flavour based on experimental calorimeter data.
- Developed a Telegram bot in Python for monitoring and managing an Ethereum mining rig.
- Created a linear SAT solver for the 2-SAT problem in C for my Bachelor's thesis.

Skills

Programming languages: Python, Java, JavaScript, C, C++, C#, R, L^AT_EX, Assembly.

Frameworks: PyTorch, Scikit-learn, TensorFlow, Keras.

Spoken languages

- Italian (first language)
- English (C1)

Other interests

Classical and Jazz Music, Piano, Calisthenics, VR & AR, Reading, Anime.