

# Lorenzo Gregoris

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🌐 website 📍 Italy, Rome



## Education

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### Sapienza University of Rome

Bachelor of Physics

Sep. 2018 - Dec. 2021

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

Master of Applied Math & Data Science

Feb. 2022 - Present

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

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

## Experiences

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- 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

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- 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.
- Built a telegram bot in python for monitoring and managing an Etherium mining rig.
- Built a linear Sat solver for the 2-SAT problem in C for my Bachelor's thesis.

## Skills

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**Programming languages:** Python, Java, JavaScript, C, C++, C#, R, L<sup>A</sup>T<sub>E</sub>X, Assembly.

**Frameworks:** Pytoch, Scikit, Tensorflow, Keras.

# **Spoken languages**

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- Italian (first language)
- English (C1)

# **Other interests**

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