

## PERSONAL INFORMATION

## Marco Montagna

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 <https://github.com/Coerulatus>

Gender Male | Date of birth 21 July 1995 | Nationality Italian

## EDUCATION AND TRAINING

## 2023 Started PhD in Data Science

**Sapienza University of Rome, Rome (Italy)**

I started my PhD on Artificial Intelligence. My research focus is on Graph Neural Networks, with a focus on Topological Deep Learning.

## 2023 Student Honor Program in Artificial Intelligence and Robotics

**Sapienza University of Rome, Rome (Italy)**

I participated in and completed the honor program for my course. Only the best few students of the course were given the chance to work on a project with a Professor of their choice which resulted in an additional certificate. My work tackled soft robots and their control theory, with particular attention to the automatic learning of iterative terms that allow the control of these robots without full knowledge of their dynamic model.

## 2021 - 2023 Master's degree in Artificial Intelligence and Robotics

**Sapienza University of Rome, Rome (Italy)**

I graduated from computer engineering at Sapienza. This master's degree focuses in part on artificial intelligence and in part on robotics. I'm mostly interested on the former part, even though the robotics courses that I'm following are very fascinating too. I graduated in July 2023 with a thesis entitled *Graph pooling with dynamic node selection*, which is about graph neural networks, particularly focusing on Graph Transformers.

*Final grade:* 110/110 cum laude

*Dissertation Title:* Graph Pooling with Dynamic Node Selection

*Supervisor:* Prof. Simone Scardapane

## 2018 - 2021 Bachelor's Degree in Physics

**Sapienza University of Rome, Rome (Italy)**

During my bachelor's degree, I acquired a solid education in mathematics, general physics and modern physics. I started to approach machine learning and artificial intelligence, becoming more and more passionate and I then decided to continue my studies in this field. Thanks to the many laboratory courses I also learned to work in a group and to appreciate collaboration in order to achieve better results.

*Final grade:* 104/110

*Dissertation Title:* Applicazioni di graph neural networks per la classificazione di jets adronici

*Supervisor:* Prof. Stefano Giagu

## 2009 - 2014 Diploma di Maturità Scientifica

**Liceo Scientifico Enzo Piccinini, Pesaro (Italy)**

During this period of studies, I learned the basic concepts of mathematics, physics, biology, chemistry and how to apply the scientific method. Furthermore, through the studies of philosophy, history and Italian, English and Latin literature, I developed my critical spirit.

Final grade: 110/110 cum laude

## 2012 - 2013 High School Exchange Year

### Santa Monica Catholic High School, California

I spent a year abroad housed by an American family. I attended the third year of high school at St. Monica Catholic High School. This experience allowed me to meet different people belonging to different cultures, and to become more independent.

## WORK EXPERIENCE

2014 – Present Private lessons of Physics and Maths to students of all ages

## PUBLICATIONS

### 2022 Regulation by Iterative Learning in Continuum Soft Robots

**Marco Montagna**, Pietro Pustina, Alessandro De Luca.- (2022), pp. 151-152. (Intervento presentato al convegno 4th Italian Conference on Robotics and Intelligent Machines tenutosi a Roma, Italy) [10.5281/zenodo.7531330].

## PERSONAL SKILLS

Mother tongue Italian

### Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Cambridge First Certificate (FCE) C1					

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

### Communication skills

Used to teamwork: during the university years, I often worked in groups in the laboratory courses, finding myself very well collaborating.  
 Intercultural skills: during my exchange year I had the opportunity to meet many different cultures.

### Organisational / managerial skills

Good management and organization skills, acquired with numerous experiences in working groups and study groups.  
 Used to work under pressure with good control and negligible impact.

## COMPUTER SKILLS

Programming languages C, C++, MATLAB, Python, Java, Kotlin

Other softwares LaTeX, Office package

### Online Courses

Following my developing passion for artificial intelligence, in the last few years I completed different online courses:

- *Machine Learning* by Stanford University on Coursera
- *Machine Learning with TensorFlow on Google Cloud Platform* on Coursera
- *Perform Foundational Data, ML, and AI Tasks in Google Cloud* on Google Cloud Training