

## PERSONAL INFORMATION

## Giulio Cordova



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🌐 [www.github.com/zenith378](https://www.github.com/zenith378)

📅 Date of birth 24 November 1998 | 🇮🇹 Nationality Italian

APPLICATION FOR: Summer School at Fermilab 2022

## PROFILE

I am a passionate physics student with a good background in the theoretical and computational side. Enthusiastic to learn, I enjoy new challenges and I am highly motivated to work in an international environment.

## EDUCATION AND TRAINING

2021 – Present

## Master of Science in Physics

ISCED 7

Dipartimento di Fisica "E. Fermi", Università di Pisa

My master degree in High Energy Physics has a specific focus on the Data Analysis techniques. Besides the courses of theoretical physics on Quantum Field Theory and Fundamental Interactions, I am learning to perform a good statistical analysis with Data Mining, Machine Learning and Monte Carlo techniques.

- Theoretical Physics: Quantum Field Theory, Fundamental Interactions and Standard Model
- Experimental Physics: Fundamental Interactions experiences with a focus on the instrumentation
- Data Analysis: Parallel Programming, Machine Learning, Monte Carlo Techniques and Advanced Statistical Methods

2018 – 2021

## Bachelor of Science in Physics

Dipartimento di Fisica "E. Fermi", Università di Pisa

My Bachelor's thesis "Misure di precisione dei rapporti di decadimento del bosone W con l'esperimento CMS" was supervised by prof. Paolo Azzurri. The topic for the bachelor's thesis was a precise measurement of the branching ratios of the W boson decay with the CMS experiment. For this project I had a specific focus on the study of the Lepton Universality using Monte Carlo analysis. Other exams include:

- Experimental Physics and Electronics
- Theoretical Physics: Classical Mechanics and Electrodynamics, Quantum Mechanics, Basic Nuclear Physics, Astrophysics
- Mathematics: Calculus, Complex Analysis, Linear Algebra
- General Chemistry
- Computer Science: C and Python Languages

## PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	C1	C1
German	C1	C1	C1	C1	C1
Goethe Institut Zertifikat C1					
Spanish	B1	B1	A2	A2	A2

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

**Organisational / managerial skills** – I learned how to manage and organise activities respecting deadlines and prefixed goals.  
– I have good logistic skills, due to

**Communication skills** – team work: during my experience in the scout movement I worked in teams with different roles. Right now, I am coordinating a staff of young adults that organise educational activities for a group of teens.  
– communication skills: during my experiences in the scout movement I learned to communicate with people of different ages (e.g. kids, families, other member of the staff...)  
– intercultural skills: I lived in Germany for two years. I had the opportunity to attend 10th grade classes in a German High School and Philosophy lectures at the Humboldt- Universität zu Berlin after graduating High School.

**Computer skills** – proficient with  $\text{\LaTeX}$   
– advanced user of Python  
– intermediate user of C/C++  
– basic knowledge of ROOT

**Other skills and interests** I enjoy hiking in the mountains, shoot photos and play my guitar.

**Driving licence** AM, B