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Curriculum vitae

PERSONAL INFORMATION

Giulio Cordova

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Gender Male | 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. Content of exams:

– Theoretical Physics: Quantum Field Theory, Fundamental Interactions, Standard Model (and beyond)
– Experimental Physics: Fundamental Interactions experiences
– Data Analysis: Parallel Programming, Data Mining, Complex Network Analysis, 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

INTERNATIONAL EXPERIENCES

2017 – 2018 — Bachelor of Arts in Philosophy

Humboldt Universität zu Berlin

After high school graduation, I attended Philosophy lectures at the Humboldt University of Berlin.

2014 – 2015 — Mittler Abschluss 10. Klasse

Pindl Gymnasium Regensburg

I attended 10th grade classes in a German high school as part as an Erasmus-like experience.

PERSONAL SKILLS

Mother tongue	Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	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
– During my experience as a chief in the scout movement, I learned how to manage and organise activities respecting deadlines and prefixed goals.
– I have good logistic and organisational skills, as well as great flexibility and adaptability.

Communication skills
– team work and leadership: during my experience in the scout movement I worked in teams with different roles, so I learned to communicate with people of different ages (e.g. kids, families, other member of the staff...). I coordinated a staff of young adults that organise educational activities for a group of teens.
– communication skills: as a student representative I am used to listen to the problems of the students in my community and look for a solution mediating in the Council of Department.
– 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. This opportunities provided me with good team work skills in an international environment.

Computer skills
– proficient with LaTeX
– proficient user of Python
– intermediate user of C/C++
– basic knowledge of ROOT
– learning Julia and Java

Other skills and interests
– good knowledge of office suite (word processor, spread sheet, presentation software)
– good knowledge of photo editing software gained as an amateur photographer
– guitar playing
– mountaineering: I enjoy hiking in the mountains and climbing.
– beach volley: I recently start playing for a local team at a non-competitive level.

Driving licence B