

# Ai fini della pubblicazione

#### EDUCATION AND TRAINING

09/2019 - 10/2022 Rome, Italy

**BACHELOR'S DEGREE IN PHYSICS** Sapienza University of Rome

Final grade 108/110 | Thesis Evidenze sperimentali dell'esistenza dei Bosoni Vettori

09/2022 - 10/2024 Rome, Italy

MASTER'S DEGREE IN PHYSICS, CURRICULUM 'FUNDAMENTAL INTERACTIONS: THEORY AND EXPERIMENT' Sapienza University of Rome

Final grade 110/110 cum laude

Thesis Characterization and Irradiation study for the future Muon Collider Electromagnetic Calorimeter

11/2024 - CURRENT Rome, Italy

**DOCTORAL DEGREE IN ACCELERATOR PHYSICS AND TECHNOLOGY** Sapienza University of Rome

#### LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		
ENGLISH	C2	C1	C1	C1	C1
FRENCH	В1	B2	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## CONFERENCES, SCHOOLS AND SCOLARSHIPS

13/01/2025 - 14/02/2025

**JUAS - Joint Universities Accelerator School** 

Five-week school on Accelerator Physics, organized by ESI (European Scientific Institute) and held at CERN.

Link https://www.esi-archamps.eu/juas-presentation/

07/2024 - 10/2024

INFN Scholarship "Graziano Fortuna, Giovanni Volpini"

Awarded to support scientific training in the context of a Master's thesis on the 'Development of new technologies' at one of the INFN National Laboratories.

09/09/2024 - 13/09/2024

SIF (Italian Physical Society) National Congress

Contribution with a talk on the topic of my Master's thesis.

## XXI LNF Spring School "Bruno Touschek" in Nuclear, Subnuclear and Astroparticle Physics

Attendance of the lectures, and contribution to the 8th Young Researchers' Workshop with a talk on the topic of my Master's thesis.

Link https://www.lnf.infn.it/conference/lnfss/24/

2023 - 2024

## **Support role at Sapienza's Didactic Laboratories**

Collaboration activities with the personnel of the Bruno Pontecorvo didactic laboratories at Sapienza University of Rome. Supporting the Bachelor's Degree laboratory sessions on Mechanics, Optics, Thermodynamics and Electromagnetism.

#### SCIENTIFIC PRODUCTION

### List of publications

- <u>Interim report for the International Muon Collider Collaboration (IMCC)</u> Published in: CERN Yellow Rep.Monogr. 2/2024 (2024), 1
- <u>CHARACTERIZATION AND IRRADIATION STUDY FOR THE CRILIN ELECTROMAGNETIC CALORIMETER</u> Published in: Frascati Phys.Ser. 76 (2025), 2-7
- <u>Developing an alternative calorimeter solution for the future Muon Collider: The Crilin design</u> Publishedin: Nucl.Instrum.Meth.A 1069 (2024), 169973
- MuCol Milestone Report No. 5: Preliminary Parameters DOI: 10.5281/zenodo.13970100 (publication)
- Crilin: a semi-homogeneous crystal calorimeter for the muon collider Published in: PoS ICHEP2024 (2025), 1113
- <u>Development of a sub-mm particle tracking detector based on a plastic scintillator with SiPM charge sharing</u> Published in: JINST 19 (2024) 12, T12006
- Advancements in Muon Collider Calorimetry: Design, Testing, and Radiation Resistance of the Crilin Calorimeter Prototype Published in: *EPJ Web Conf.* 320 (2025) 00023
- The Muon Collider e-Print: 2504.21417 [physics.acc-ph]
- <u>CRILIN: A semi-homogeneous crystal calorimeter for the Muon Collider</u> Published in: Nuovo Cim.C 48 (2025) 3, 112
- <u>Crilin: A novel calorimeter proposal for the s=10 TeV Muon Collider Simulations and prototype tests results</u> Published in: Nucl.Instrum.Meth.A 1079 (2025), 170617

Link https://inspirehep.net/authors/2808581

Roma, 21/07/2025

F.to Vittoria Ludovica Ciccarella