



EDUCATION AND TRAINING

11/2024 - CURRENT

PH.D. IN PHYSICS INFN - Istituto Nazionale di Fisica Nucleare

Supervisors: Prof. Luca Lamagna, Dr. Alessandro Paiella

Research: development of a W-band on-chip Fourier Transform Spectrometer based on Kinetic Inductance Detectors (KIDs) for the study of Cosmic Microwave Background spectral distortions.

09/2022 - 10/2024 Rome, Italy

M.SC. IN ASTRONOMY AND ASTROPHYSICS Sapienza University of Rome

Thesis: "A mm-wave on-chip FTS based on KIDs for cosmological applications"

Supervisors: Prof. Luca Lamagna, Dr. Alessandro Paiella

Final grade 110/110 cum laude

09/2019 - 10/2022 Rome, Italy

B.SC. IN PHYSICS Sapienza University of Rome

Thesis: "Axions and ALPs: theoretical foundations and experimental investigations"

Supervisor: prof. Marco Vignati

Final grade 110/110 cum laude

2019 - 09/2020 Rome, Italy

MERIT-BASED SCHOLARSHIP Sapienza University of Rome

Full tuition exemption awarded for academic excellence.

09/2014 - 06/2019 Rome, Italy

CLASSICAL HIGH SCHOOL DIPLOMA Liceo classico statale Francesco Vivona

DEL F B1 French certification (2015).

Won the ancient Greek translation contest "Piccolo Agone Placidiano" (2018).

TOEFL English exam (2018).

Final grade 100/100 cum laude

INTERNSHIPS AND EDUCATIONAL ACTIVITIES

14/04/2025 - 16/04/2025

UniVersuum VI: Tracing a Communal Path for the Italian Cosmology Community Workshop - Padova

Attended plenary sessions and delivered a talk titled "On-Chip Fourier Transform Spectroscopy for Astrophysical Observations".

25/09/2023 - 29/09/2023

Italian School of Radioastronomy - Lecce

Included lectures with key scientific case studies and hands-on sessions with data from the main instruments currently in operation (ALMA, EVN, EHT, LOFAR, MeerKAT, VLA, VLBA).

Organized by INAF and University of Salento.

Link <https://sites.google.com/inaf.it/scuolaitalianaradioastronomia/home>

19/06/2023 - 23/06/2023

Observational Campaign at Effelsberg Radio Telescope - Bad Münstereifel (Germany)

Participated in an observational campaign focused on the jet/outflows connection in variable broad absorption line quasars (BAL QSOs).
Proposed and supervised by Dr. Gabriele Bruni (INAF) and Dr. Diego Tuccillo (IFCA, Spain).

11/06/2018 – 15/06/2018
INFN-LNF Summer School 2018

Attended lectures on Particle Physics and Cosmology and participated in experimental activities in biomedical applications on nanomaterials.
Organized by Istituto Nazionale di Fisica Nucleare-Laboratori Nazionali di Frascati (INFN-LNF).

Link <https://edu.lnf.infn.it/stage-di-nanotecnologie-2018/>

12/06/2017 – 23/06/2017
INFN-LNF Summer School 2017

Theoretical and experimental training in bio-nanotechnologies.
Organized by Istituto Nazionale di Fisica Nucleare-Laboratori Nazionali di Frascati (INFN-LNF).

Link <https://edu.lnf.infn.it/stage-di-nanotecnologie-2017/>

16/12/2016 – 18/12/2016
Winter Campus of Math, Physics, Astrophysics and New Technologies - Bardonecchia (TO)

Featured seminars on galaxy formation and evolution, with night sky observations and group research activities.
Organized by University of Turin.

WORK EXPERIENCE



SELF-EMPLOYED PRIVATE TUTOR – 2017 – 2021

Provided personalized tutoring in Mathematics, Physics, Latin, Greek and Italian Literature for high school students

SKILLS

Astronomical data processing software: CASA; CARTA | Electromagnetic field simulation software: ANSYS HFSS, Sonnet | C programming | Basics of Python and Fortran programming | Text processing (Word, LaTeX) | Microsoft Excel | Microsoft Powerpoint

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

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

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

HOBBIES AND INTERESTS

Playing the piano.
Reading, especially psychological and crime novels.
Rhythmic gymnastics at national level until 2019.
Making handmade crafts (crochet, embroidery, jewelry).