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Al fine della pubblicazione

PERSONAL INFORMATION Mario Cirillo



PERSONAL STATEMENT

My curiosity and my thirst of knowledge have always encouraged me to discover new things.

I have a strong interest in Stellar Astrophysics topics: metal-poor intermediate and low mass AGB stars, stellar nucleosynthesis, s-process, chemical evolution of the Universe.

WORK EXPERIENCE

August 2021 – Present

Voluntary work

Municipal dog shelter, Montesilvano (PE), Italy.

Business or sector Voluntary work

August 2013 – Present

Tutoring activity

Private lessons for students in Middle and High Schools and University.
Main subjects: Mathematics, Physics, Latin, English.

Business or sector Education

January 2019 – June 2019
January 2018 – November 2018

Collaboration grant (art. 11 D. Lgs. 29 marzo 2012, n. 68)

Sapienza University of Rome, Rome, Italy.

- Tutoring activity to Biology students in classical Physics.
- Assistance activity to Physics students in classical Physics laboratory experiments.
- Classification of Physics laboratory instruments.

Business or sector Education

EDUCATION AND TRAINING

November 2019 – Present

PhD in Astronomy, Astrophysics and Space Science

EQF level: 8

Abruzzo Astronomical Observatory, Teramo, Italy.

Thesis title: *"Nucleosynthesis in primordial stars: paving the route to SKA"*.
Supervisors: Oscar Straniero and Luciano Piersanti.

This PhD is a three-years joint research programme between Sapienza University of Rome, University of Rome Tor Vergata and National Institute of Astrophysics (INAF). At the end of the program, I will obtain a joint degree of the two Universities.

September 2017 – October 2019

Master's Degree in Astronomy and Astrophysics (110/110 with honours)

EQF level: 7

Sapienza University of Rome, Rome, Italy.

Thesis title: *"Impact of the new measurement of the $^{12}\text{C}+^{12}\text{C}$ reaction cross section on the presupernova evolution, explosion and nucleosynthesis of massive stars"*.

Supervisor: Marco Limongi.

September 2014 – July 2019

Scholarship

Collegio Universitario dei Cavalieri del Lavoro “Lamaro Pozzani”, Rome, Italy.

It is affiliated with the Conferenza dei Collegi Universitari di Merito (CCUM), legally recognised by the Ministero dell’Istruzione, Università e Ricerca (MIUR).

September 2017 – June 2019

Diploma of “Global Studies: Politics, Economics and Culture” (Excellent)

Collegio Universitario dei Cavalieri del Lavoro “Lamaro Pozzani”, Rome, Italy.

General knowledge on political communication, economics, demography and international cultures.

September 2014 – December 2018

Diploma of “Cavaliere del Lavoro Gaetano Marzotto” Course in Business Fundamentals (Excellent)

Collegio Universitario dei Cavalieri del Lavoro “Lamaro Pozzani”, Rome, Italy.

General knowledge of economics, business and law.

September 2014 – October 2017

Bachelor’s Degree in Physics (110/110 with honours)

EQF level: 6

Sapienza University of Rome, Rome, Italy.

Thesis title: “*Paradosso di Feynman e momento angolare del campo elettromagnetico*”.

Supervisor: Francesco Lacava.

September 2009 – July 2014

Scientific High School Diploma (100/100 with honours)

EQF level: 4

Private Scientific High School Nostra Signora, Pescara, Italy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
	FCE (B2)				
Spanish	B1	B1	A2	A2	A2
French	A2	A2	A2	A2	A2

Communication skills

Good communication skills acquired thanks to the experience in the Collegio Universitario dei Cavalieri del Lavoro “Lamaro Pozzani” and thanks to my multi-year experience in private lessons.

Organisational / managerial skills

Good planning and organisation abilities developed during my stay in the Collegio Universitario dei Cavalieri del Lavoro “Lamaro Pozzani”.

Job-related skills

Good ability to work in group and clear and organised methodological approach acquired thanks to the many laboratory experiences during the Bachelor’s Degree in Physics and the Master’s Degree in Astronomy and Astrophysics.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Computer skills:

- Good command of Office tools (Word, Excel, PowerPoint).
- Frequent use of LaTeX.
- Good knowledge of programming languages (C, Fortran).

Driving licence

B

ADDITIONAL INFORMATION

Publications

3. Tortosa, A., Fabiani, S., Soffitta, P., Muleri, F., **Cirillo, M.** et al., *Performances of the gas pixel detector to a continuum and highly polarized x-ray beam*, Proceedings of the SPIE, Volume 10699, July 2018.
2. **Cirillo, M.**, *Osservare il cielo: segreti e misteri dell'universo*, Panorama per i Giovani (Journal of the Collegio Universitario dei Cavalieri del Lavoro "Lamaro Pozzani"), June 2017.
1. **Cirillo, M.**, *Intervista ad una statunitense a Roma per il Programma Ponte*, Panorama per i Giovani (Journal of the Collegio Universitario dei Cavalieri del Lavoro "Lamaro Pozzani"), July 2016.

Presentations

- Scientific Communication in Astronomy School, Bertinoro, Italy, October 2021.
- PhD in Astronomy, Astrophysics and Space Science Workshop, Rome, Italy, September 2021.
- PhD in Astronomy, Astrophysics and Space Science Workshop, Rome, Italy, September 2020.
- Italian University Orientation, "Scuola Statale Italiana di Atene", Athens, Greece, April 2019.

Conferences

- Scientific Communication in Astronomy School, Bertinoro, Italy, October 2021.
- 10th European Summer School on Experimental Nuclear Astrophysics, Catania, Italy, June 2019.
- "I Colloqui Fiorentini", Florence, Italy, February 2014.
- "Leggere Dante Oggi", Pescara, Italy, April 2013.
- "I Colloqui Fiorentini", Florence, Italy, February 2013.
- "I Colloqui Fiorentini", Florence, Italy, February 2012.

Honours and awards

- Alfiere del Lavoro 2014, yearly honour given by the President of Italian Republic to the 25 best high school graduates in Italy.
- National Excellence Honours Roll. Legally recognised by the Ministero dell'Istruzione, Università e Ricerca (MIUR), it includes all the Italian students who have obtained a mark of 100 with honours in a state exam at the end of their secondary school education.

Authorisation of the processing of personal data

I authorise the processing of my personal data in accordance with the D. Lgs. 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

F.to Mario Cirillo