

PERSONAL INFORMATION

Marco Turchetta

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 <https://www.linkedin.com/in/marco-turchetta-4006411ab/>

Gender Male | Date of birth 30 April 1996 | Nationality Italian

EDUCATION AND TRAINING

Jan 2022–Dec 2025 (foreseen)

PhD in Physics and Astrophysics

EQF level 8

Norwegian University of Science and Technology (NTNU), Trondheim (Norway)

Project title: *Optical studies of binary millisecond pulsars.*

Supervisor: Prof. Manuel Linares

Sep 2018–Oct 2021

Master's degree in Astronomy and Astrophysics

EQF level 7

La Sapienza University, Rome (Italy)

Title of Master's Degree Thesis: *Searches and characterization of optical and X-ray pulsations from candidate transitional millisecond pulsars.*

Supervisors: Prof. Luigi Stella, Dr. Alessandro Papitto

Co-supervisor: Dr. Filippo Ambrosino

Date of achievement: 18 October 2021

Final grade: 110/110

Sep 2015–Oct 2018

Bachelor's degree in Physics

EQF level 6

La Sapienza University, Rome (Italy)

Title of Bachelor's Degree Thesis: *Experimental observations of gravitational waves emission in binary systems.*

Supervisor: Fulvio Ricci

Date of achievement: 22 October 2018

Final grade: 101/110

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Cambridge English Level 1 Certificate in ESOL International (First) B2					
Spanish	A2	A2	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](https://www.europecollege.edu/CEFR/)

Communication skills

Good communication and dissertation skills, thanks to teaching assistant activities during PhD at NTNU Physics Department and slideshows of astrophysics topics during oral exams at La Sapienza.

- Job-related skills** Extended knowledge of high energy astrophysics, in particular X-ray binaries, radio pulsars and accretion-powered pulsars.
- Solid knowledge of the theory of General Relativity, in particular gravitational waves sources, like, for instance, compact binary mergers and asymmetric rotating neutron stars
- Good knowledge of timing analysis and periodicity search techniques for detection of coherent signals in X-ray and optical band.
- Solid knowledge of stellar astrophysics.
- Familiarity with cosmology.
- Digital competences** Deep knowledge of MATLAB and Python.
- Extended knowledge of C++, C and bash languages.
- Knowledge and mastery of HEASoft X-ray timing analysis software.
- Extended knowledge of the LaTeX language for typesetting.
- Good knowledge of office software, such as: word processing, spreadsheets , presentations and databases (Microsoft Office or OpenOffice).
- Knowledge of Linux and Microsoft operating systems.
- Internship** Visit to **Virgo laboratory at La Sapienza Physics Department**.
- Master's Thesis at the **Astronomic Observatory of Rome (INAF)**.
- Teaching assistant in the Observational Astrophysics course held by prof. Linares at **NTNU Physics Department**.