Greta Ettorre

PhD Candidate in Astrophysics | University of Bologna - INAF OAS

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Profile

PhD candidate in Astrophysics at the Italian National Institute for Astrophysics (INAF) – Astrophysics and Space Science Observatory of Bologna (OAS) and University of Bologna. My research focuses on the synergy between high-resolution radio and optical observations to investigate the population of millisecond pulsars in globular clusters.

Education

PhD in Astrophysics *Nov 2023 – Oct 2026*
University of Bologna – INAF OAS Bologna
Thesis: High-resolution radio and optical synergy: a jump in Fundamental Physics with millisecond pulsars in globular clusters
Supervisor: Dr. Emanuele Dalessandro - *Co-supervisors:* Dr. Cristina Pallanca, Dr. Mario Cadelano
Progetto PNRR STILES - Proposta IR0000034 - CUP: C33C22000640006

Master's Degree in Astrophysics and Cosmology *Oct 2021 – Sept 2023*
University of Padova
Thesis: Distribution of stellar rotational velocities in star clusters of the Magellanic Clouds
Supervisors: Prof. Paola Marigo, Prof. Léo Girardi, Dr. Alessandro Mazzi
Final grade: 110/110 cum laude
Average grade: 29.85/30

Bachelor Degree in Astronomy *Oct 2017 – Dec 2020*
University of Padova
Thesis: Pair Instability supernovae nucleosynthesis
Supervisor: Prof. Paola Marigo
Final grade: 105/110
Average grade: 27.17/30

Teaching Experience

Academic Tutor – Master's Degree in Astrophysics and Cosmology *Oct 2022 – Sept 2023*
University of Padova
I provided academic support and guidance to students facing difficulties with the course of General Relativity by organizing weekly meetings to discuss their doubts. Moreover, I help students to manage their study time and deal with any organisational issues.

Publications

First Author

Searching for exotic object companions in the dense core of NGC 362
***G. Ettorre**, E. Dalessandro, C. Pallanca, M. Cadelano et al.*
May 2025 - Astronomy & Astrophysics, 697, A215

Strikingly high fraction of fast rotators in Magellanic Cloud star clusters
***G. Ettorre**, A. Mazzi, L. Girardi, P. Marigo et al.*
May 2025 - Montly Notices of the Royal Astronomical Society, 539, 2537

Co-Author

Stellar rotation in the intermediate-age massive cluster NGC1783: Clues about the nature of UV-dim stars
S. Leanza, E. Dalessandro, M. Cadelano, C. Fanelli, ***G. Ettorre*** *et al.*
May 2025 - Astronomy & Astrophysics, 698, A27

Conferences & Talks

Contributed Talks

EAS 2025 Jun 23–27, 2025
University College Cork, Cork (Ireland)

Congresso Nazionale Oggetti Compatti (CNOC) Sept 23–26, 2024
INAF OAC, Alghero (Italy)

Resolved stellar populations from photographic plates to large surveys Oct 7–11, 2024
INAF OAA, Florence (Italy)

Posters & Short Presentations

Bridging Scales: star clusters and their galaxies from the Local to the high-z universe Sep 1–5, 2025
(Member of Local Organizing Committee)
INAF OAS, Matera (Italy)

STARS II: current challenges, upcoming solutions Jun 16–20, 2025
(Member of Local Organizing Committee)
INAF OAS, CNR Research Area, Bologna (Italy)

MODEST24: Exploring Dense Stellar Systems Across Cosmic Time Aug 19–23, 2024
Nicolaus Copernicus Astronomical Center, Warsaw (Poland)

Schools

INAF PhD School "Francesco Lucchin": from the solar system to high-z galaxies May 26–31 2025
INAF OAPd, Asiago (Italy)

Astrostatistic School 2024 Jul 8–12 2024
University of Crete, Heraklion (Greece)

Astro Hack Week 2022 Oct 17–22 2022
Max Planck Institute for Astronomy, Heidelberg (Germany)

Collaborations

MORFEO Science Team - *Contributor for the Resolved Stellar Populations group* 2025 - Ongoing

Technical and Language Skills

Software: Python (NumPy, Pandas, Matplotlib, SciPy, RegEx, emcee), Jupyter, LaTeX, Git, Linux, Conda, Git, Linux, Windows, SEVN, TRILEGAL, DS9, TOPCAT
Languages: Italian (native), English (B2), French (A2), German (A1)

Certificates

Cambridge English Level 1 Certificate in ESOL International (First)
Level B2 *Score: 178/190*

Autorizzo il trattamento dei dati personali contenuti nel mio CV ai sensi dell'art. 13 GDPR 679/16.