

Greta Ettore

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 for General Relativity

Oct 2022 – Sept 2023

University of Padova - Master's Degree in Astrophysics and Cosmology

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 helped students to manage their study time and deal with any organisational issues.

Publications

First Author

Identification and characterization of optical companions to the population of millisecond pulsars in the globular cluster M3

G. Ettore, E. Dalessandro, M. Cadelano, C. Pallanca, P.C.C. Freire, A. Ridolfi.

November 2025 - *Astronomy & Astrophysics*

Searching for exotic object companions in the dense core of NGC 362

G. Ettore, 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 - *Monthly Notices of the Royal Astronomical Society*, 539, 2537

Co-Author

PARSEC V2.0: Rotating tracks and isochrones for seven additional metallicities

C.T. Nguyen, G. Costa, A. Bressan, L. Girardi, G. Cescutti, A.J. Korn, G. Volpato, Y. Chen, G. Pastorelli, M. Trabucchi, K.G. Shepherd, **G. Ettorre** and S. Zaggia

August 2025 - *Astronomy & Astrophysics*, 701, A258

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

PULSAR 2025

INAF OAC, Cagliari (Italy)

Sept 22–26, 2025

EAS 2025

University College Cork, Cork (Ireland)

Jun 23–27, 2025

Congresso Nazionale Oggetti Compatti (CNOC)

INAF OAC, Alghero (Italy)

Sept 23–26, 2024

Resolved stellar populations from photographic plates to large surveys

INAF OAA, Florence (Italy)

Oct 7–11, 2024

Posters & Short Presentations

Bridging Scales: star clusters and their galaxies from the Local to the high-z universe

INAF OAS, Matera (Italy)

Sep 1–5, 2025

STARS II: current challenges, upcoming solutions

INAF OAS, CNR Research Area, Bologna (Italy)

Jun 16–20, 2025

MODEST24: Exploring Dense Stellar Systems Across Cosmic Time

Nicolaus Copernicus Astronomical Center, Warsaw (Poland)

Aug 19–23, 2024

Schools

INAF PhD School "Francesco Lucchin": from the solar system to high-z galaxies

INAF OAPd, Asiago (Italy)

May 26–31 2025

Astrostatistic School 2024

University of Crete, Heraklion (Greece)

Jul 8–12 2024

Astro Hack Week 2022

Max Planck Institute for Astronomy, Heidelberg (Germany)

Oct 17–22 2022

Referee Activity

Referee for Main Astrophysics International Journals – Astronomy & Astrophysics

Organization of conferences

Bridging Scales: star clusters and their galaxies from the Local to the high-z universe

Member of Local Organizing Committee

Sep 1–5, 2025

Collaborations

MORFEO Science Team - Contributor for the Resolved Stellar Populations group	2025 - Ongoing
Vera Rubin-LSST - Junior Associate in The Stars, Milky Way and Local Volume Collaboration	2024 - Ongoing

Technical and Language Skills

Software: Python (NumPy, Pandas, Matplotlib, SciPy, RegEx, emcee), Jupyter, $\text{\LaTeX}$, Git, Linux, Conda, Git, Linux, Windows, SEVN, TRILEGAL, DS9, TOPCAT

Languages: Italian (native), English (B2), German (A1)

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