

Le informazioni contenute nel presente "curriculum vitae et studiorum" sono rese sotto la personale responsabilità del sottoscritto, ai sensi degli articoli 46 e 47 del Decreto del Presidente della Repubblica 28 dicembre 2000, numero 445, e successive modifiche ed integrazioni, consapevole della responsabilità penale prevista dall'articolo 76 del medesimo Decreto per le ipotesi di falsità in atti e dichiarazioni mendaci.

Dr. Eleonora Zari

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Current position

2024-current **Postdoctoral fellow**, *Florence University*, Firenze, Italy.
My current research focuses on young stars, both luminous, high-mass OB-type stars and low-mass pre-main sequence stars. I leverage on the complementary information provided by OB and PMS stars to map star formation in the Milky Way and obtain a detailed view of the structure and star formation history of the young disc of our Galaxy.

Past positions

2019 - 2024 **Postdoctoral Researcher**, *Galaxy and Cosmology department, MPA*, Heidelberg, Germany.

Education

2015-2019 **PhD in Astronomy**, *Leiden Observatory*, Leiden, The Netherlands, Thesis title: Surveying young stars with *Gaia*: Orion and the solar neighbourhood. Supervisors: Prof. A. G. A. Brown, Prof. P.T. de Zeeuw.

May 2018 **Observing run at ESO/VLT Paranal**, *Pr.Id. 0101.C-0866, PI: C. Manara*, Support activities and training to observe at the VLT in Paranal.

Summer 2016, 2017, 2018 **Gaia sprint**, *CCA, Flatiron Institute, NYC, USA and MPA, Heidelberg, DE*, Series of workshops aimed at the scientific exploitation of the Gaia data.

September 2016 **Summer School on Astrostatistic and Data Mining**, *University of Heidelberg (DE)*, Lectures and problem sets on statistical techniques and their applications to astronomical datasets..

2012-2014 **Master's degree in Physics**, *University of Milan*, Milan, Italy, Supervisors: Prof. M. Lombardi, Prof. J. Alves..

2008–2012 **Bachelor's degree in Physics**, *University of Milan*, Milan, Italy, Supervisor: Prof. M. Lombardi..

Large projects and collaborations

- Dec 2019 - present **SDSS-V OB star program lead**. Tasks include: target selection, science verification and data quality control of the program focused on observing massive stars in the Milky Way and Magellanic clouds.
- Nov 2020 - present **SDSS-V Young Stars group co-chair**. Tasks include: organising working group internal discussion, moderating the internal mailing list, and co-chairing by-weekly telecoms.
- Jan 2021 - present **4MOST - 4SYS science core-team member**. I have been member of the 4MOST Survey of Young Stars/S12 since 2019, and I have joined the 4MOST science team when the survey was officially approved as a participating survey. I coordinate the science verification effort of S12 of and the cross - validation effort between the young star programs in SDSS-V and 4MOST. I am a member of the internal working group IWG3.

Observing time

PI

- 70 nights, FEROS@LaSilla 2.2m divided in around 30 nights in P110, 30 nights in P111, and 10 in P112, title: "Surveying the Brightest Luminous and Hot Stars in the Milky Way".

Co-I

- 12.5 nights, Nordic Optical Telescope, PI: H.-W. Rix, title: "Surveying the Brightest Luminous and Hot Stars in the Milky Way"; this is the Northern counterpart of the program accepted at La Silla.
- JWST GO 1759, PI: M.C. Ramirez-Tannus, MPIA, title: "Physics and Chemistry of Planet-Forming Disks in Extreme Radiation Environments".
- JWST GO 2183, PI: S. Zeegers, ASIAA, title: "Illuminating the dust properties in the diffuse ISM with JWST".

Supervision of students

- Jan 2018 - Jan 2019 **Hossein Hashemi**, *Master student*, Leiden University, Title: 3D mapping of massive stars in the solar neighbourhood with Gaia DR2.
- Sept 2018 - Sept 2019 **Tom Sweegers**, *Master student*, Leiden University, Title: Searching for runaway stars in Gaia DR2.

June 2021-Sept 2021 **Domenica Garzon**, *Summer intern*, MPIA, Project title: Mapping the Birth Places of Young Stars in the Milky Way.
A paper resulted from the project: Garzon D., Frankel N., Zari E. et al. (2024)

Teaching

2015-2019 Teaching assistant for the course "Project Management in Astronomy", Leiden University

2015-2019 Organiser of the master's student final colloquia, Leiden University

Service to the community

2025 **SOC member**, *Symposium "Young Stars and clusters"*, EAS, Cork, Ireland, 23-27 June 2025.

2025 **Member of the Seminar Committee**, *responsible for organising fortnightly seminars, joint between the Observatory of Arcetri and Florence University*.

2023 **Remote Reviewer**, *JWST Cycle 2 and Cycle 3*, Stellar Populations.

2023 **Remote Reviewer**, *HST Cycle 31*, Stellar Populations.

2023 **SOC member**, *Special Session "The Young Milky Way"*, EAS, Krakow, Poland, 10-14 July 2023.

2023 **SOC member**, *SDSS-V/IReNA science festival*, Leuven, Belgium, 3-7 April 2023.

2020 **Remote referee**, *ERC-ADG Step 2*.

Since 2017 **Referee**, *for A&A, APJ, MNRAS*.

2020-2022 **Postdoc representative**, MPIA.

2018 - 2019 **Co-organizer**, *Gaia group meeting*, Leiden, NL.

July 2018 **SOC member**, *Splinter session, CoolStars20*, Boston (MA), USA.

2017 - 2018 **Co-organizer**, *PhD talks*, Leiden, NL.

Grants, Honors, Awards and Recognitions

2024 **Unifi4Future Fellowship**, *University of Florence, Florence, Italy*.

2019 **PSL postdoctoral fellowship**, *in Astrophysics at Paris Observatory, Paris, France (declined)*.

2018 **LKBF grant**, *to attend the conference CoolStars20*, Boston (MA), USA.

2017 **IAU grant**, *to attend the IAU Symposium 330, Astrometry and Astrophysics in the Gaia Sky*, Nice, France.

2016, 2017 **A&A highlighted papers and covers**, *Zari et al., 2016 and Zari et al., 2017*.

Selected outreach activities

- Summer 2018 **Volunteer**, *UNAWA Discovery Club*.
<http://www.unawe.org/getinvolved/discoveryclub/>
- 2017 - 2018 **Co-organizer**, *Astronomy on Tap Leiden*.
<http://astronomyontap.nl/>
- 2011-2014 **Collaborator**, *Lo Spettacolo della Fisica*.
<https://spettacolo.fisica.unimi.it/>

Selected talks:

I presented my work in international conferences and workshops, giving several talks and poster presentations.

- February 2025 **Invited talk**, *Justification for spectroscopy*, Roman Galactic Plane Survey Workshop, Online.
- July 2024 **Contributed talk**, *The star formation history of the young Milky Way disc*, EAS 2024, Padova, Italy.
- June 2024 **Contributed talk**, *Status update on the MWM-OB program*, SDSS-V Collaboration meeting, Las Cruces (NM, USA).
- May 2024 **Contributed talk**, *The recent star formation history of the Galactic disc*, Star Formation across Cosmic Scales: machine learning insights and applications (Budapest, Hungary).
- August 2023 **Invited talk**, *Summary of the science goals and status of the massive star program in SDSS-V*, SDSS-V Collaboration meeting (New York, USA).
- April 2023 **Invited Review**, *OB associations*, Protostars & Planets VII (Kyoto, Japan).
- June 2022 **Contributed talk**, *The star formation history of the Galactic disc*, Gaia Symposium (EAS, Valencia).
- August 2021 **Plenary Talk, invited**, *Mapping OBA stars in the Galactic disc*, SDSS-V Collaboration Meeting.
- March 2021 **Plenary Talk, invited**, *Young stellar clusters as seen by Gaia*, CoolStars 20.5, Boston, MA.
- Since 2020 **Colloquia**, at Keele (UK), Sheffield (UK), Nijmegen (NL), Vienna (AT), Leuven (BE), INAF Torino (IT), ESO Garching (DE).
- July 2018 **Contributed talk**, *3D mapping of the solar neighbourhood with Gaia DR2*, Cool Stars 20, Boston (MA), USA.
- June 2018 **Contributed talk**, *The Gaia view of the Orion star forming region*, The Olympian Symposium 2018, Paralia Katerini, Mount Olympus, Greece.

June 2017 **Contributed talk**, *Mapping young stellar populations towards Orion with Gaia DR1*, Francesco's Legacy, Star Formation in Space and Time, Florence, Italy.

Florence, 12/05/2025

Eleonora Tanzi