Giacomo Cordoni

Personal Info

DOB	28 Oct 1994
Nationality	Italian
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Publications	ADS bibliography

Education

2018– **Astronomy Ph.D.**, *University of Padova, Padova, Italy*.
Ph.D. project: Multiple Stellar Populations in Star Clusters
Supervisor: Prof. Antonino P. Milone

Jul 2018–Sep 2018 **Summer fellowship**, *University of Padova, Padova, Italy*.
Project: Multiple Stellar Populations in Magellanic Cloud Clusters
Supervisor: Prof. Antonino P. Milone

2016–2018 (21 Jun 2018) **Astronomy Master degree**, *University of Padova, Padova, Italy, final score 110L/110*.
Final thesis: Multiple Stellar Populations in Magellanic Cloud Clusters: disentangling between age spread and rotation
Supervisor: Prof. Antonino P. Milone, Co-supervisor: Dr. Anna F. Marino
http://tesi.cab.unipd.it/61306/

2013–2016 (26 Sep 2016) **Physics Bachelor degree**, *University of Padova, Padova, Italy, final score 97/110*.
Final thesis: Giant planet formation with "pebbles" accretion
Supervisor: Prof. Francesco Marzari

Accomplishments

Jul 2020 **Stefano Magini Award** for Master thesis in Astrophysics https://www.arcetri.inaf.it/ricerca/premio-stefano-magini

Scientific experience

Oct 2019–Dec 2019 Visiting Ph.D. student at the *Research School of Astronomy and Astrophysics, Australian National University, Canberra, AU*. **Collaboration with Prof. Gary S. Da Costa and Dr. David Yong**

Jun 2019 Visiting Ph.D. student at the *University of Indiana Bloomington, Bloomington, Indiana, US*. **Collaboration with Prof. Enrico Vesperini**

Feb 2019 Visiting Ph.D. student at the *Max-Planck-Institut für Astronomie, Heidelberg, DE*. **Collaboration with Dr. Alessandra Mastrobuono-Battisti**

Oct 2018–Jun 2019 Tutoring activity in Calculus 1, *University of Padova, Padova, IT*.

Jun 2018 Tutoring activity for the ESTAGE project with the GALFOR group, *University of Padova, Padova, IT*. http://progetti.dfa.unipd.it/GALFOR/outreach.html

Conferences and workshops

26-31 Jun 2019 European Week of Astronomy and Space Science, Lyon, FR. **Contributed Talk.** https://eas.unige.ch//EWASS2019/

3-7 Jun 2019 Summer School in Statistics for Astronomers XV, University of Pennsyilvania Eberly College of Science, State College, US.

27-31 May 2019 Star Clusters: from the Milky way to the Early Universe, IAU Symposium, Bologna, IT. **Poster**. http://iausymp351.oas.inaf.it/

8 Jun 2018 International Conference of Young Astrophysicists and Astronomers 2018, Padova, IT. **Contributed Talk.**. https://indico.cern.ch/event/715567/

Refereed publications

14 **Cordoni et al. 2020**, *Accepted for publication in ApJ, Gaia and Hubble unveil the kinematics of stellar populations in the Type II globular clusters ω Centauri and M 22.*

https://ui.adsabs.harvard.edu/abs/2020arXiv200616355C/abstract

13 Milone et al. 2020 *Accepted for publication in MNRAS, A chromosome map to unveil stellar populations with different magnesium abundances. The case of Omega Centauri*

https://ui.adsabs.harvard.edu/abs/2020arXiv200613101M/abstract

12 **Cordoni et al. 2020**, *ApJ, Three-Component Kinematics of Multiple Stellar Populations in Globular Clusters with Gaia and VLT*

https://ui.adsabs.harvard.edu/abs/2020ApJ...889...18C/abstract

11 Milone et al. 2020 *MNRAS, Multiple populations in globular clusters and their parent galaxies*

https://ui.adsabs.harvard.edu/abs/2020MNRAS.491..515M/abstract

10 Milone et al. 2019 *MNRAS, The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. - XXI. Binaries among multiple stellar populations*

https://ui.adsabs.harvard.edu/abs/2019MNRAS.tmp..199M/abstract

9 Lagioia et al. 2019, *AJ, The Role of Cluster Mass in the Multiple Populations of Galactic and Extragalactic Globular Clusters*

https://ui.adsabs.harvard.edu/abs/2019AJ....158..202L/abstract

8 Marino et al. 2019, *ApJ, Chemical abundances along the 1G sequence of the chromosome maps: The Globular Cluster NGC 3201*

https://ui.adsabs.harvard.edu/abs/2019ApJ...887...91M/abstract

7 Marino et al. 2019, *MNRAS, The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XVIII. A Chemical Tagging of the Multiple Stellar Populations along the chromosome maps*

https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.3815M/abstract

6 Zennaro et al. 2019, *MNRAS, Four stellar populations and extreme helium variation in the massive outer-halo globular cluster NGC 2419*

https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.3239Z/abstract

5 Tailo et al. 2019, *MNRAS, Is helium the key parameter in the extended color spread of the first generation stars in M3?*

https://ui.adsabs.harvard.edu/abs/2019MNRAS.486.5895T/abstract

4 Li et al. 2019, *ApJ*, *Extended main-sequence turnoffs in the double cluster h and χ Persei: The complex role of stellar rotation*

https://ui.adsabs.harvard.edu/abs/2019ApJ...876...65L/abstract

3 Tailo et al. 2019, *ApJ*, *Mass loss of different stellar populations in Globular Clusters: the case of M4*

https://ui.adsabs.harvard.edu/abs/2019ApJ...873..123T/abstract

2 **Cordoni et al. 2018**, *ApJ*, *Extended Main-sequence Turnoff as a Common Feature of Milky Way Open Clusters*

http://adsabs.harvard.edu/abs/2018MNRAS.481.5098M

1 Milone et al. 2018, *ApJ*, *The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XVI. The helium abundance of multiple populations*

http://adsabs.harvard.edu/abs/2018ApJ...869..139C

Observing proposals

Principal Investigator HST cycle 27, ***GO 15495***, *A two orbits proposal to solve the age spread dilemma in young Magellanic Clouds clusters* , **P.I. Cordoni**

http://www.stsci.edu/hst/observing/program-information

Conference proceedings

2 **Cordoni et al. 2019**, IAU proceedings, *Kinematics of multiple stellar populations in globular clusters with Gaia*

https://ui.adsabs.harvard.edu/abs/2019arXiv190811692C/abstract

1 **Lagioia et al. 2019**, IAU proceedings, *Helium variations in Galactic and extragalactic Globular Clusters*

https://ui.adsabs.harvard.edu/abs/2019arXiv190811702L/abstract

Technical Skills

Programming PYTHON (expert), SUPERMONGO (expert), C++ (intermediate), R (beginner), MATHEMATICA (beginner), MATLAB (beginner)

Languages

ITALIAN (native speaker), ENGLISH (fluent)