

GIACOMO CORDONI

Personal Info

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Education

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

2016–2018 **Astronomy Master degree**, *University of Padova, Padova, Italy*, final score 110L/110.
(21 Jun 2018) 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 **Physics Bachelor degree**, *University of Padova, Padova, Italy*, final score 97/110.
(26 Sep 2016) Final thesis: Giant planet formation with “pebbles” accretion
Supervisor: Prof. Francesco Marzari

Prizes and awards

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

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

Scientific experience

Oct 2019– Visiting Ph.D. student at the *Research School of Astronomy and Astrophysics, Australian*
Dec 2019 *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– Tutoring activity in Calculus 1, *University of Padova, Padova, IT*.
Jun 2019

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

- 31 Aug - 4 Sep 2020 The Local Group: Assembly and Evolution, STScI, Baltimore, MD, US. **Contributed Talk**. <https://www.stsci.edu/contents/events/stsci/2020/april/the-local-group-assembly-and-evolution>
- 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 Pennsylvania 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

After 2 years into my Ph.D. I am author of 14 refereed papers, including 3 first-author papers, with almost 200 citations ([NASA ADS](#)). Moreover, I am author of other 2 conference proceedings, 1 as first-author.

- 15 **Cordoni et al. 2020b**, *ApJ*, *Gaia and Hubble unveil the kinematics of stellar populations in the Type II globular clusters ω Centauri and M22*.
<https://ui.adsabs.harvard.edu/abs/2020ApJ...898..147C/abstract>
- 14 **Cordoni et al. 2020a**, *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>
- 13 **Cordoni et al. 2018**, *ApJ*, *Extended Main-sequence Turnoff as a Common Feature of Milky Way Open Clusters*
<https://ui.adsabs.harvard.edu/abs/2018ApJ...869..139C/abstract>
- 12 Tailo et al. 2020 *MNRAS*, *Mass loss along the red giant branch in 46 Globular Clusters and their multiple populations*
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.tmp.2059T/abstract>
- 11 Milone et al. 2020 *MNRAS*, *A chromosome map to unveil stellar populations with different magnesium abundances. The case of Omega Centauri*
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.497.3846M/abstract>
- 10 Milone et al. 2020 *MNRAS*, *Multiple populations in globular clusters and their parent galaxies*
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.491..515M/abstract>
- 9 Milone et al. 2020 *MNRAS*, *The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. - XXI. Binaries among multiple stellar populations*
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.492.5457M/abstract>
- 8 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>

- 7 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>
- 6 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>
- 5 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>
- 4 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>
- 3 Li et al. 2019, *ApJ*, *Extended main-sequence turnoffs in the double cluster η and χ Persei: The complex role of stellar rotation*
<https://ui.adsabs.harvard.edu/abs/2019ApJ...876...65L/abstract>
- 2 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>
- 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. Cordini**
<http://www.stsci.edu/hst/observing/program-information>

Conference proceedings

- 2 **Cordini 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)