

# GIACOMO CORDONI

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## Personal Info

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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– **Summer fellowship**, *University of Padova, Padova, Italy*.  
Sep 2018 Project: Multiple Stellar Populations in Magellanic Cloud 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

## 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>

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## 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 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/>

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## Refereed publications

- 13 **Cordoni et al. 2020**, *Submitted to ApJ*, *Gaia and Hubble unveil the kinematics of stellar populations in the Type II globular clusters  $\omega$  Centauri and M 22.*
- 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  $\chi$  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)