



Carmela Lardo

Swiss National Foundation
Ambizione Fellow



5 December 1984



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Google Scholar



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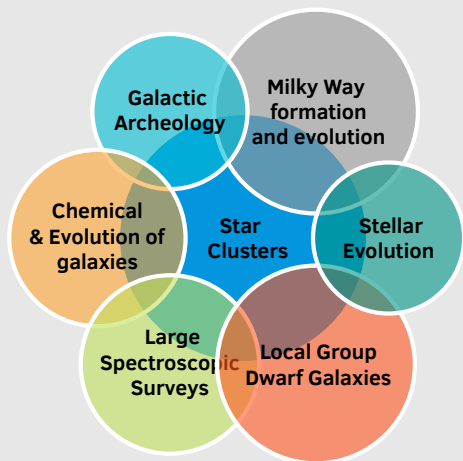


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Keywords



Education

25th Feb, 2013

Ph.D. Astronomy

Bologna University, IT

Thesis title: "Multiple stellar populations in globular clusters with photometry and low-resolution spectroscopy ([Link](#))"

Advisors: B. Marano, E. Pancino, M. Bellazzini

13rd Mar, 2009

MS Astrophysics

Bologna University, IT

Thesis title: "Definition of Strategy and Procedures for ground-based data reduction and Gaia's absolute flux calibration"

Advisors: F. Ferraro, E. Pancino, G. Altavilla

1st Mar, 2007

BS Astronomy

Bologna University, IT

Thesis title: "Distribution of atmospheric muons measured with ANTARES detector"

Advisors: M. Spurio, A. Margiotta

Employment

Apr, 2017–

Swiss National Foundation Ambizione Fellow

EPFL, CH

Globular clusters or dwarf galaxies: the mystery of multiple populations

Advisors: P. Jablonka, J.-P. Kneib

Aug, 2016–Apr, 2017

Post-doc Research Associate

ARI LJMU, UK

Fulfilling the Potential of Globular Clusters as Tracers of Cosmological Mass Assembly

Advisor: N. Bastian (ERC-2014-CoG-Multi-Pops)

Aug, 2014–Jul, 2016

Post-doc Research Associate

ARI LJMU, UK

Extragalactic stellar spectroscopy of massive stars

Advisor: B. Davies

Jan, 2013–Jul, 2014

Post-doc Research Associate

INAF-OABO, IT

Preparation of observations and analysis of Gaia-ESO Survey data

Advisor: E. Pancino

Prizes, Awards, and Fellowships

Dec, 2018–Nov, 2020

MERAC Funding and Travel Award

SSAA, CH

Swiss Society for Astrophysics and Astronomy (€3, 000)

Apr, 2017–Mar, 2020

Ambizione Fellowship 2016 (PZ00P2_168065)

EPFL CH

CHF 317, 652 (3 years; ~ € 279, 000)

Nov, 2012–Feb, 2013

Marco polo studentship

IAC, ES

Visiting scholar at the Instituto de Astrofísica de Canarias (3 months; € 1, 900)

Sep, 2003–Mar, 2009

Collegio Superiore scholarship

Bologna University, IT

School of Excellence of University of Bologna (5 years; ~ € 50, 000)

Scientific Responsibilities

| | | |
|---------------------|--|--------------|
| Feb, 2019 | Invited Team member COST Action CA16117 ChETEC WG3 meeting | NFTMC, LT |
| Jan, 2019 | Invited Team member Pristine (<i>Team leader</i> : P. Jablonka) | ISSI, CH |
| Aug, 2018 – present | Organiser LASTRO-UniGE seminars | EPFL, CH |
| Jun, 2016 – present | Reviewer MNRAS, A&A, and ApJ | |
| Jul, 2013 – present | Survey Builder Gaia ESO Survey – <i>PIs</i> : G. Gilmore (UK) and S. Randich (IT) | Gaia-ESO |
| Jan, 2018–Jun, 2018 | Invited Team member Globular Clusters in the Gaia era (<i>Team leaders</i> : V. Hénault- Brunet & M. Gieles) | ISSI, CH |
| Mar, 2016–Jul, 2017 | Co-organiser star and cluster formation/evolution group meeting Internal journal clubs | ARI LJMU, UK |
| Feb, 2016–May, 2017 | Invited young scientist The Formation and Evolution of the Galactic Halo - Setting the Scene for the Large Modern Surveys (team leader: D. Romano) | ISSI, CH |
| Oct, 2015–May, 2016 | Member of Observing Program Committee ESO, periods 97-98 | ESO |

Students and Teaching Activities

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|----------------------|---|------------------------|
| Oct, 2016– | Ph.D. student co-advisor Ms. S. Martocchia | ARI LJMU, UK |
| Sept, 2018–Dec, 2018 | Teaching assistant Astrophysics II – Bases physiques de l'astrophysique | EPFL, CH |
| Mar, 2018–Aug, 2018 | Research Internship co-advisor Ms. L. Arthur (ENSTA, Paristech) | EPFL, CH |
| Feb, 2015– | Ph.D. student co-advisor Dr. I. Cabrera-Ziri & Dr. K. Hollyhead | ARI LJMU, UK |
| Sept, 2017–Dec, 2017 | Teaching assistant Astrophysics III – Stellar and galactic dynamics | EPFL, CH |
| Feb, 2010–Jul, 2010 | Teaching assistant Optics | Bologna University, IT |

Organisation of Scientific Meetings

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|-----------|--|----------------|
| Jul, 2018 | Chair Multiple populations in Stellar Clusters | Sexten, IT |
| Apr, 2018 | SOC Multiple populations in massive star clusters - A common thread through cosmological ages? | EWASS 2018, UK |
| Jun, 2017 | SOC Bridging the near and the far: from the Milky Way to nearby galaxies | EWASS 2017, CZ |
| Jul, 2016 | Chair Multiple Populations in Globular Clusters: Where do we stand? | Sexten, IT |

Talks and seminars

2019

- Invited review Talk – *Multiple Populations in Globular clusters* – Vilnius, LT
- Invited review Talk – *Multiple Populations in Globular clusters* – Leiden, NL
- Contributed Talk – *The ESI spectroscopic sample (Pristine)* – ISSI, Bern, CH

2018

- Invited Keynote Talk – *The formation of globular clusters at high and low redshift* – Sexten, IT
- Colloquium Talk – GEPI, Paris Observatory, F

2017

- Invited Talk – *Globular cluster systems and their host galaxies* – Sexten, IT
- Contributed Talk – ISSI, Bern, CH
- Contributed Talk – *Pristine Meeting*, Nice, FR

2016

- Contributed Talk – Multiple Populations in Globular Clusters: Where do we stand? (Sexten, IT)
- Contributed Talk – ISSI, Bern, CH
- Contributed Talk – *Workshop on Multiple Populations in Globular Clusters* – ARI, Liverpool, UK

2015

- Contributed Talk – *Frontiers of Stellar Spectroscopy* – Heidelberg, D

2014

- Colloquium Talk – Bologna Observatory, IT
- Contributed Talk – 2nd *Italian LBT Workshop* – Padova, IT
- Colloquium Talk – IAC, La Laguna, ES
- Contributed Talk – *LBT users' meeting* – Tucson, US

2013

- Colloquium Talk – Bologna Observatory, IT
- Contributed Talk – *First annual all-Survey GES conference* — Nice, FR

- Colloquium Talk – University of Concepción, CL

2012

- Poster – *Reading the book of globular clusters with the lens of stellar evolution*
– Rome Observatory, IT

2011

- Colloquium Talk – Bologna Observatory, IT
- Colloquium Talk – ESO, Santiago, CL

2010

- Contributed Talk – *Multiple populations in globular clusters* – Asiago, IT

Observing Proposals

- **ESO P102** Near-field cosmology with extremely metal-poor stars - UVES 22 hr
- **ESO P102** Finding and characterising the most Pristine stars in the Galaxy - EFOSC 6 nights
- **Magellan 18A** Is the first population in globular clusters chemically homogeneous? - MIKE 2 nights
- **HST Cycle 26** A Full Characterisation of the Multiple Population Properties of Young Globular Clusters - HST/WFC3 38 orbits
- **HST Cycle 25** Extending the Search for Multiple Populations in Massive Intermediate Age Clusters - HST/WFC3 Proposal 15062 8 orbits
- **HST Cycle 24** What controls the onset of the multiple population phenomenon within globular clusters?- HST/WFC3 Proposal 14723 4 orbits
- **ESO P100** Establishing a direct link between optical and near infrared abundance measurements of Cepheids for accurate distance determination along the distance ladder to H0 - KMOS 2 nights
- **ESO P99** A systematic hunt for sodium-rich stars through the jungle of nitrogen-rich stars in the Galactic halo - UVES 11.5 hr
- **ESO P99** Constraining the onset of multiple populations in massive clusters - FORS2 2 nights
- **ESO P98** LACES (Locking the Abundances of CEpheids for SHOES): precision stellar astrophysics for precision cosmology - FLAMES 3 nights
- **ESO P98** Establishing a direct link between optical and near infrared abundance measurements of Cepheids for accurate distance determination along the distance ladder to H0 - KMOS 1.7 hr
- **ESO P98** Contribution of GC stars to the Milky Way halo: looking for second generation-like stars - UVES 10.8 hr
- **ESO P97** What controls the onset of the multiple population phenomenon within globular clusters? - FLAMES 14 hr
- **ESO P97** Red Supergiants as Cosmic Abundance Probes: from the Local Group out to super-star-clusters at 20 Mpc - KMOS 0.5 night
- **ESO P97** The Nature of Nitrogen-Rich Stars in the Galactic Bulge - FLAMES 16.5 hr
- **ESO P96** A Stellar View of the Mass-Metallicity Relation - KMOS 12 hr
- **ESO P96** Direct, precise and accurate determination of stellar metallicity in galaxies along the distance ladder to H0 - KMOS 12.7 hr

- **ESO P95** A Novel Method to Map the Chemical Evolution of Galaxies: The First Step beyond the Local Group - KMOS 1 night

- **ESO P93** Multiple Populations in low-mass Globular Clusters: the case of NGC 6362 - FLAMES 7 hr
- **ESO P91** Searching for disrupted globular clusters in low metallicity galactic environments: the case of the Sculptor dwarf spheroidal galaxy - VIMOS 2 nights + 0.6 hr
- **ESO P88** Photometric signatures of multiple stellar population in GGCs: radial trends and relative number fraction - OMEGACAM 29 hr
- **ESO P87** The understanding of multiple stellar populations in globular clusters: UV photometry and low resolution spectroscopy of four former members of Sagittarius - FORS2 2 nights + 6 hr
- **LBT 2017-18** Chemical Compositions of Accreting M31 Globular Clusters - MODS 26 hr
- **LBT 2016-17** What controls the onset of the multiple population phenomenon within globular clusters? - LBC 4 hr
- **LBT 2016-17** Chemical Compositions of Accreting M31 Globular Clusters - MODS 20 hr
- **LBT 2014-15** CNO abundances of red giants in Galactic globular clusters - MODS 15 hr
- **LBT 2013B** The double RGB in M 15, a chemical characterisation - MODS 4 hr
- **LBT 2012B** Low-resolution spectroscopy to trace multiple populations in Globular Clusters: the case of M2 and M15 - MODS 10.8 hr
- **LBT 2011** UV photometry to trace multiple populations in Globular Clusters the case of NGC 2419 - LBC 1 hr
- **TNG AOT33** Measuring CNO abundances in giant stars of the globular cluster M 2 - GIANO 3 nights
- **TNG AOT22** Low resolution RGB spectroscopy of two GCs: NGC 7078 and NGC 7089 - DOLORES-MOS 2 nights
- **NOT Per 48** Decontaminating the ultra faint dwarf galaxies - MOSCA 2 nights
- **WHT 2015A** C+N+O abundances in globular clusters red giants: a test with WYFFOS on M10 - WYFFOS 7.3 hr