Eduardo BALBINOT

PERSONAL INFO

PLACE AND DATE OF BIRTH:	Porto Alegre, Brazil | 31 August 1987
NATIONALITY:	Brazilian and Italian
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FORMAL EDUCATION

2011-2014	UFRGS, PhD in Astrophysics *Supervised by Prof. Basilio Xavier Santiago*
2009-2011	UFRGS, M.S. in Astrophysics *Supervised by Prof. Basilio Xavier Santiago*
2005-2009	UFRGS, B.Sc. in Physics

RESEARCH EXPERIENCE

2018-PRESENT	Postdoctoral Research Fellow at the Kapteyin Astronomical Institute (Groningen) - with A. Helmi
2017 (DECLINED)	Full professor at UFRGS (alma mater)
2014-2018	Postdoctoral Research Assistant at The University of Surrey - with M. Gieles
2011-2014	Graduate Research Assistant at UFRGS *Thesis: The MW satellite system in the cosmological context*
2009-2011	Graduate Research Assistant at UFRGS *Dissertation: Analysis of disrupting stellar cluster in the Local Group*
2005-2009	Undergraduate Research Assistant at UFRGS *Project: Formation and evolution of LMC star clusters*

BIBLIOMETRICS

Refereed publications: 70 (8 as first author)
h-index: 33
Source: NASA ADS (https://tinyurl.com/ywrrj522)

INVITED TALKS

- "Survival of Dense Star Clusters in the Milky Way System" – Heidelberg (2018). Title: "The contribution of GCs to the build up of the MW halo."

- "Halo Substructure and Dark Matter" workshop – Madrid (2018) Title: "The Milky Way halo seen by the Dark Energy Survey"

Instrumentation and collaborations

Gaia	WP945 validation and science verification papers
WEAVE	catalogue production, validation, and science verification. Leading the stellar stream effort for the LR HighLat survey.
4MOST	bench-testing, validation, and integration of the calibration unit being developed at ASTRON (NL). Member of Survey 1 (Galactic Archaeology).
DES	Dark Energy Survey. Member with data rights. I helped with the Galactic survey design and commissioning of PreCam, the precursos of the Dark Energy Camera (DECam).
S^5	Southern Stellar Stream Spectroscopic Survey, member

Observing Experience

2019	PI, WHT/ISIS	1 night *Multiple stellar populations in the GD-1 stellar stream*
2017	CoI, HST	16 orbits *Unveiling the formation of Andromeda XIX - a uniquely diffuse Local Group galaxy*
2016	CoI, HST	24 orbits *Dating the Early Star Formation Episode(s) of Ret II*
2016	CoI, ESO/VLT 8.2m,	41h *Dark matter content and chemistry of ultra-faint Magellanic satellites*
2015	PI, ESO/VLT 8.2m,	48h *Unveiling the southern Halo with DES: detailed observations of the Tucana II, Horologium I, and the Phoenix stream*
2015	PI, CTIO Blanco 4m,	2 nights *Survey for extra tidal features in southern globular clusters*
2015	Observer, CTIO Blanco 4m,	9 nights
2013	CoI, SOAR 4.2m,	20h *Star clusters in the west halo of the Small Magellanic Cloud*
2012	Observer, CTIO Curtis-Schmidt 1.2m,	6 nights
2012	PI, CFHT 3.8m,	21h *New Milky Way satellites in BOSS footprint*
2012	PI, CFHT 3.8m,	16h *New Milky Way satellites in BOSS footprint*
2010	PI, CTIO Blanco 4m,	10h *Tidal tails around two disrupting globular clusters*
2009	CoI, SOAR 4.2m,	33h *The star clusters in the Magellanic Bridge: in situ star formation?*
2009	CoI, SOAR 4.2m,	20h *Probing the LMC age-gap at intermediate cluster masses*

Computer Skills

Programming languages (ordered by skill level)	Python, FORTRAN, C, bash, Perl, SQL, php, JavaScript, LaTeX, C++, awk
Operating systems	GNU/Linux (main), MACOX, and Windows (basic)
Astronomy specific	IRAF, DOLPHOT, DAOPHOT, PyRAF, SExtractor and the Astromatic.net suite

Other related skills: survey design and simulation, photometric/spectroscopic reduction pipelines, web visualization of astronomical images, Bayesian and classic inference, wrapping of third party code,

version control (GIT), and collaborative project development.

Teaching

Co-supervised 7 Bachelor final year projects and 3 Masters; some (8h) tutoring computer methods at the University of Surrey; $\sim$ 200h of outreach lectures and several public talks related to my science results.

Press releases

- This star cluster is slowly being taken over by black holes. In a billionyears they'll kill it. (Bad Astronomy - SyFy - 2021)
- Rivers in the sky (Symmetry Magazine - 2018)
- Dark Energy Survey finds more celestial neighbors (Symmetry Magazine and others - 2015)
- Scientists find rare dwarf satellite galaxy candidates (Symmetry Magazine and others - 2015)
- Researchers use stars to infer mass of Milky Way (phys.org)
- A new globular cluster in the Milky Way (Veja magazine; portuguese - 2012)

References

- Amina Helmi (University of Groningen): ahelmi@astro.rug.nl
- Else Starkenburg (University of Groningen): estarkenburg@astro.rug.nl
- Mark Gieles (University of Barcelona): mgieles@icc.ub.edu
- Basilio Santiago (UFRGS): santiago@if.ufrgs.br
- Leo Girardi (INAF, Padova): leo.girardi@oapd.inaf.it
- Nate Bastian (contact on request)
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