

# Eduardo BALBINOT

Last update, 30th November 2021

## PERSONAL INFO

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

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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

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2018-PRESENT | Postdoctoral Research Fellow at the Kapteyn 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

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

## INVITED TALKS

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- ICC, Barcelona (2021). Title: "The power of Gaia for stellar streams", Host: T. Antoja
- "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

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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 precursor of the Dark Energy Camera (DECam).
S <sup>5</sup>	Southern Stellar Stream Spectroscopic Survey, member

## OBSERVING EXPERIENCE

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

## COMPUTER SKILLS

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Programming languages (ordered by skill level)	PYTHON, FORTRAN, C, BASH, PERL, SQL, PHP, JAVASCRIPT, L <sup>A</sup> T <sub>E</sub> X, C++, AWK
Operating systems	GNU/Linux (main), MACOSX, 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

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

## PRESS RELEASES

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- [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

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- Amina Helmi (University of Groningen): [ahelmi@astro.rug.nl](mailto:ahelmi@astro.rug.nl)
- Else Starkenburg (University of Groningen): [estarkenburg@astro.rug.nl](mailto:estarkenburg@astro.rug.nl)
- Mark Gieles (University of Barcelona): [mgieles@icc.ub.edu](mailto:mgieles@icc.ub.edu)
- Basilio Santiago (UFRGS): [santiago@if.ufrgs.br](mailto:santiago@if.ufrgs.br)
- Leo Girardi (INAF, Padova): [leo.girardi@oapd.inaf.it](mailto:leo.girardi@oapd.inaf.it)
- Nate Bastian (contact on request)
- Justin Read (University of Surrey): [j.read@surrey.ac.uk](mailto:j.read@surrey.ac.uk)
- Eduardo Bica (UFRGS): [bica@if.ufrgs.br](mailto:bica@if.ufrgs.br)
- Charles Bonatto (UFRGS): [charles@if.ufrgs.br](mailto:charles@if.ufrgs.br)