

# Dr. Eduardo BALBINOT

Last update, 15th September 2023

## PERSONAL INFO

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PLACE AND DATE OF BIRTH: Porto Alegre, Brazil | 31 August 1987  
DATE OF BIRTH: 31 August 1987  
NATIONALITY: Brazilian and Italian  
WEBSITE: <http://balbinot.github.io>  
PHONE: +31 6 18914641

## EMPLOYMENT

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|---------------------|---|
| SEP 2022 - PRESENT  | Postdoctoral Research Fellow at the Leiden Observatory  |
| SEP 2018 - SEP 2022 | Postdoctoral Research Fellow at the Kapteyn Astronomical Institute (Groningen) - with Amina Helmi <ul style="list-style-type: none"><li>PI of the pointed streams sub-survey in WEAVE</li><li>Expert consultancy on 4MOST calibration unit building at ASTRON</li></ul> |
| AUG 2014 - SEP 2018 | Postdoctoral Research Assistant at The University of Surrey - ERC Fellow PI: M. Gieles  |

Offered fellowships and professorship: NOIRLab/Chile Astronomer tenure track (2023; declined) ESO Fellowship (2018; declined) and assistant professor at UFRGS (2017; declined)

## FORMAL EDUCATION

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| JAN 2011- OCT 2014 | UFRGS <sup>1</sup> , PhD in Astrophysics<br><i>Supervised by Prof. Basilio Xavier Santiago</i><br><i>Thesis: The MW satellite system in the cosmological context</i>               |
| DEC 2009- JAN 2011 | UFRGS <sup>1</sup> , M.S. in Astrophysics<br><i>Supervised by Prof. Basilio Xavier Santiago</i><br><i>Dissertation: Analysis of disrupting stellar clusters in the Local Group</i> |
| JAN 2005- DEC 2009 | UFRGS <sup>1</sup> , B.Sc. in Physics<br><i>Final project: Formation and evolution of LMC star clusters</i>  |

## TECHNICAL SKILLS

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|---|---|
| Programming languages<br>(ordered by skill level) | PYTHON, FORTRAN, C, BASH, R, JAVASCRIPT, PERL, SQL (POSTGRES), PHP, <del>AT&amp;T</del> TeX, C++, AWK |
| Operating systems                                 | GNU/Linux (main), MACOX, and Windows (basic)  |
| Astronomy specific                                | IRAF, DOLPHOT, DAOPHOT, PYRAF, MULTIDRIZZLE, ASTROPY, SEXTRACTOR and the Astromatic.net suite         |

Other related skills: survey design and simulation, photometric/spectroscopic reduction pipelines, web visualization of astronomical images (see live implementation [here](#)), Bayesian and classic inference, wrapping of third

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<sup>1</sup>Universidade Federal do Rio Grande do Sul (UFRGS) is one of the top higher education institutions in Latin America, ranking 6th overall ([source](#)).

party code, version control (GIT), and collaborative project development. I am a contributing author to the following open-source astronomy-related packages: VAEX, LIMEPY, GALA. I have a basic understanding of mainstream machine-learning frameworks such as SKLEARN and TENSORFLOW.

**Multidisciplinary:** I have collaborated with other fields of astronomy (e.g. instrumentation – Politopoulos et al. w/ EB (2022)), as well as other areas of science such as Geology [Jalowski et al. 2016; EPSL] and medical sciences in the field of Neuroscience and Kinesiology.

## OBSERVING EXPERIENCE AND GRANTS

As a PI I was awarded the equivalent of  $\sim 405$  k€ in observing time at 4 and 8-meter class facilities. Below is a list of most of the observing programs I have been involved in.

- 2022 PI, VLT/XShooter 8m | 4.5h  
*The extremely metal-poor stream ED-2*
- 2021 CoI, VLT/UVES 8m | 9h  
*Stellar streams in Gaia DR3*
- 2019 PI, WHT/ISIS 4m | 1 night  
*Multiple stellar populations in the GD-1 stellar stream*
- 2017 CoI, HST/ACS-WFC3 | 16 orbits (id:15302)  
*Unveiling the formation of Andromeda XIX - a uniquely diffuse Local Group galaxy*
- 2016 CoI, HST/ACS-WFC3 | 24 orbits (id:14766)  
*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 Observer, 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*

I am the co-I and main work package contributor of two ERC Synergy (13.8 M€) that made into the final selection stage (PI: Boyarsky). I was also the shortlisted for the *La Caixa Junior Leaders* (300 k€) in 2022 and on the reserve list for the Spanish *Ramon y Cajal* fellowship (400 k€) in 2023. During my PhD I joined the "INCT e-Universo grant" (1.8 M€) awarded in 2015 [PI: Nicolaci (ON/Brazil)], which was used to fund the participation of Brazilian PI's in large survey projects (DES, SDSS-V, Rubin-LSST). LKBF grant (1.2k€) to visit STSci in 2022. Travel grant for the Vatican Observatory Summer School (5k€). CNPq scholarship for my PhD and MSc (25k€; excluding independent travel budget)

## INSTRUMENTATION, COLLABORATIONS, AND TECHNICAL RESPONSIBILITIES

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| WEAVE          | builder; catalogue production, validation, and science verification. PI of the stellar stream effort for the LR HighLat survey and science verification experiment 1.  |
| 4MOST          | bench-testing, validation, and integration of the calibration unit being developed at ASTRON. Member of Survey 1, 3, and 13 (co-I); contributor to quality assurance.  |
| DES            | member with data rights. I helped with the Galactic survey design and commissioning of Pre-Cam, the precursor of the Dark Energy Camera (DECam). Active member of spin-off surveys such as MagLites and DELVE. |
| VRO-LSST       | in-kind contribution team member (NL-UTR-03). Developer for the pipe_crowd, the crowded field pipeline for VRO-LSST  |
| S <sup>5</sup> | full member.   |

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## TEACHING AND DEPARTMENTAL DUTIES

### Teaching and outreach

- 2014-present: Co-supervised 8 Bachelor final year projects and 3 Masters; unofficially contributed to 3 PhD thesis.
- 2017: Tutoring computer and research methods;
- 2005-present: ~ 200h of outreach lectures as part of the Itinerant Educational Observatory <sup>1</sup>, and other outreach programs (UK Pint of Science)

Two of my BSc students have published their original results in competitive peer-reviewed journals [Woudenberg et al. w/ EB (2023) and Gieles, Balbinot, Yaqib, et al. (2018)]. Both of the later students have carried out their studies and are currently starting their PhDs in Groningen and the Royal Observatory of Edinburgh.

### Duties and other activities

- 2023: ILIAD hackathon (participant)
- 2022: SKIES entrepreneurship training program (participant)
- 2020: WEAVE ITP telescope time allocation external consultant
- Referee for MNRAS, ApJ and A&A since ~ 2015 (over 15 publications refereed)
- 2016-2022: Journal Club coordinator
- 2012-2014: Astronomy Dojo coding sessions
- 2005-2014: Student representative in Under/Postgrad committees

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## TALKS

### Invited

- "Milky way substructures with Gaia" – Colloquium – IAC - Tenerife, Spain (2022)
- "Community Atlas of Tidal Streams (CATS)", *invited team member*, Pasadena, USA (2022)
- "The power of Gaia for stellar streams", Colloquium for the Gaia group at ICC, Barcelona Host: T. Antoja (2021)
- "Survival of Dense Star Clusters in the Milky Way System" – Heidelberg. Title: "The contribution of GCs to the build up of the MW halo." (2018)
- "Halo Substructure and Dark Matter" workshop – Madrid. Title: "The Milky Way halo seen by the Dark Energy Survey" (2018)
- "Internal cluster dynamics and stream formation" – Seminar – Liverpool/LJMU (2017)
- "Finding stellar streams in photometric surveys" – Colloquium – UFRGS (2016)
- "The visibility of cold streams" – Colloquium – Yale. Host: M. Geha (2016)
- "The initial conditions of the Milky Way globular clusters" – Talk – Lorentz workshop *Globular Clusters and Galaxy Halos* (2016)

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<sup>1</sup><https://www.facebook.com/oei.aventureiros/>

I have also given contributed talks in over 20 international conferences and collaboration meetings, as well as given countless public outreach talks. Here is a list of the most recent ones:

- "Stellar streams in the solar neighbourhood" – EAS, Valencia (2022)
- "Linking nearby streams to halo overdensities" – EAS, Valencia (2022)
- "Multiple stellar populations in GD-1" – STREAMS21, Flatiron (online; 2021)
- "Multiple stellar populations in stellar streams: the case of GD-1" – MODEST19/IAU 351, Bologna (2019)
- "The visibility of cold streams" – Galapagos (2016) – On the Origin (and Evolution) of Baryonic Galaxy Halos

Besides science talks, I also participated on 5 DES collaboration meetings, 2 WEAVE meetings, 3 4MOST consortium meetings. I also co-organized a series of workshops in ISSI (Zurich) in preparation for the Gaia data releases.

## PRESS RELEASES

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A few selected highlights of my work in the media:

- [This star cluster is slowly being taken over by black holes. In a billion years 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)

## LANGUAGES

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|                     |              |
|---------------------|--------------|
| ENGLISH/PORTUGUESE: | Fluent       |
| SPANISH:            | Advanced     |
| FRENCH/ITALIAN      | Intermediate |
| DUTCH               | Basic        |

## REFERENCES

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- Amina Helmi (University of Groningen): [ahelmi@astro.rug.nl](mailto:ahelmi@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)
- Denis Erkal (University of Surrey): [d.erkal@surrey.ac.uk](mailto:d.erkal@surrey.ac.uk)
- Justin Read (University of Surrey): [j.read@surrey.ac.uk](mailto:j.read@surrey.ac.uk)
- Nate Bastian (LJMU): [N.J.Bastian@ljmu.ac.uk](mailto:N.J.Bastian@ljmu.ac.uk)
- Leo Girardi (INAF, Padova): [leo.girardi@oapd.inaf.it](mailto:leo.girardi@oapd.inaf.it)
- Eduardo Bica (UFRGS): [bica@if.ufrgs.br](mailto:bica@if.ufrgs.br)
- Charles Bonatto (UFRGS): [charles@if.ufrgs.br](mailto:charles@if.ufrgs.br)

## PUBLICATION LIST

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### Bibliometrics

Refereed publications: 93 (10 as first author)

h-index: 41

Normalized refereed mean citations: 262

Source: NASA ADS (<https://tinyurl.com/ywrrj522>)

Publications marked with an \* are submitted but not yet accepted. † marks publications where I had a major contribution.

### First author papers

1. Balbinot, E., Helmi, A., Callingham, T., Matsuno, T., Dodd, E., and Ruiz-Lara, T. *ED-2: a cold but not so narrow stellar stream crossing the Solar neighbourhood*. A&A, arXiv:2306.02756, **2023**
2. Balbinot, E., Cabrera-Ziri, I., and Lardo, C. *Evidence for C and Mg variations in the GD-1 stellar stream*. MNRAS, 515(4), 5802, **2022**
3. Balbinot, E. and Helmi, A. *Linking nearby stellar streams to more distant halo overdensities*. A&A, 654, A15, **2021**
4. Balbinot, E. and Gieles, M. *The devil is in the tails: the role of globular cluster mass evolution on stream properties*. MNRAS, 474(2), 2479, **2018**
5. Balbinot, E., Yanny, B., Li, T. S., Santiago, B., Marshall, J. L., Finley, D. A., Pieres, A., Abbott, T. M. C., Abdalla, F. B., Allam, S., Benoit-Lévy, A., Bernstein, G. M., Bertin, E., Brooks, D., Burke, D. L., Carnero Rosell, A., Carrasco Kind, M., Carretero, J., Cunha, C. E., et al. *The Phoenix Stream: A Cold Stream in the Southern Hemisphere*. ApJ, 820(1), 58, **2016**
6. Balbinot, E., Santiago, B. X., Girardi, L., Pieres, A., da Costa, L. N., Maia, M. A. G., Gruendl, R. A., Walker, A. R., Yanny, B., Drlica-Wagner, A., Benoit-Levy, A., Abbott, T. M. C., Allam, S. S., Annis, J., Bernstein, J. P., Bernstein, R. A., Bertin, E., Brooks, D., Buckley-Geer, E., et al. *The LMC geometry and outer stellar populations from early DES data*. MNRAS, 449(1), 1129, **2015**
7. Balbinot, E., Santiago, B. X., da Costa, L., Maia, M. A. G., Majewski, S. R., Nidever, D., Rocha-Pinto, H. J., Thomas, D., Wechsler, R. H., and Yanny, B. *A New Milky Way Halo Star Cluster in the Southern Galactic Sky*. ApJ, 767(2), 101, **2013**
8. Balbinot, E., Santiago, B. X., da Costa, L. N., Makler, M., and Maia, M. A. G. *The tidal tails of NGC 2298*. MNRAS, 416(1), 393, **2011**
9. Balbinot, E., Santiago, B. X., Kerber, L. O., Barbuy, B., and Dias, B. M. S. *Probing the Large Magellanic Cloud age gap at intermediate cluster masses*. MNRAS, 404(3), 1625, **2010**
10. Balbinot, E., Santiago, B., Kerber, L., Barbuy, B., and Dias, B. *Colour-Magnitude Diagrams of candidate age-gap filling LMC clusters*. arXiv e-prints, arXiv:0907.2890, **2009**

### All other papers (in reverse chronological order)

#### 2023

86. Viswanathan, A., Starkenburg, E., Koppelman, H. H., Helmi, A., Balbinot, E., and Esselink, A. F. *Hidden deep in the halo: selection of a reduced proper motion halo catalogue and mining retrograde streams in the velocity space*. MNRAS, 521(2), 2087, **2023**
85. Charles, E. J. E., Collins, M. L. M., Rich, R. M., Read, J. I., Kim, S. Y., Ibata, R. A., Martin, N. F., Chapman, S. C., Balbinot, E., and Weisz, D. R. *Andromeda XXV - a dwarf galaxy with a low central dark matter density*. MNRAS, **2023**
84. Jin, S., Trager, S. C., Dalton, G. B., Aguerri, J. A. L., Drew, J. E., Falcón-Barroso, J., Gänsicke, B. T., Hill, V., Iovino, A., Pieri, M. M., and et al. *The wide-field, multiplexed, spectroscopic facility WEAVE: Survey design, overview, and simulated implementation*. MNRAS, **2023**
83. Viswanathan, A., Starkenburg, E., Koppelman, H. H., Helmi, A., Balbinot, E., and Esselink, A. F. *Hidden deep in the halo: selection of a reduced proper motion halo catalogue and mining retrograde streams in the velocity space*. MNRAS, 521(2), 2087, **2023**
82. Wan, Z., Arnold, A. D., Oliver, W. H., Lewis, G. F., Baumgardt, H., Gieles, M., Hénault-Brunet, V., de Boer, T., Balbinot, E., Da Costa, G., Mackey, D., Erkal, D., Ferguson, A., Kuzma, P., Pancino, E., Peñarrubia, J., Sanna, N., Sollima, A.,

van der Marel, R. P., and Watkins, L. L. *Dynamics in the outskirts of four Milky Way globular clusters: it's the tides that dominate*. MNRAS, 519(1), 192, **2023**

81. Simon, J. D., Brown, T. M., Mutlu-Pakdil, B., Ji, A. P., Drlica-Wagner, A., Avila, R. J., Martínez-Vázquez, C. E., Li, T. S., Balbinot, E., Bechtol, K., Frebel, A., Geha, M., Hansen, T. T., James, D. J., Pace, A. B., Aguena, M., Alves, O., Andrade-Oliveira, F., Annis, J., et al. *Timing the r-process Enrichment of the Ultra-faint Dwarf Galaxy Reticulum II*. ApJ, 944(1), 43, **2023**
80. Dodd, E., Callingham, T. M., Helmi, A., Matsuno, T., Ruiz-Lara, T., Balbinot, E., and Lövdal, S. *Gaia DR3 view of dynamical substructure in the stellar halo near the Sun*. A&A, 670, L2, **2023**
79. † Woudenbergh, H. C., Koop, O., Balbinot, E., and Helmi, A. *Characterization and dynamics of the peculiar stream Jhelum. A tentative role for the Sagittarius dwarf galaxy*. A&A, 669, A102, **2023**

## 2022

78. Collins, M. L. M., Williams, B. F., Tollerud, E. J., Balbinot, E., Gilbert, K. M., and Dolphin, A. *A detailed star formation history for the extremely diffuse Andromeda XIX dwarf galaxy*. MNRAS, 517(3), 4382, **2022**
77. Gaia Collaboration, Recio-Blanco, A., Kordopatis, G., de Laverny, P., Palicio, P. A., Spagna, A., Spina, L., Katz, D., Re Fiorentin, P., Poggio, E., and et al. *Gaia Data Release 3: Chemical cartography of the Milky Way*. arXiv e-prints, arXiv:2206.05534, **2022**
76. Dodd, E., Callingham, T. M., Helmi, A., Matsuno, T., Ruiz-Lara, T., Balbinot, E., and Loevdal, S. *VizieR Online Data Catalog: Gaia DR3 of substructure in the stellar halo (Dodd+, 2023)*. VizieR Online Data Catalog, J/A+A/670/L2, **2022**
75. Gaia Collaboration, Arenou, F., Babusiaux, C., Barstow, M. A., Faigler, S., Jorissen, A., Kervella, P., Mazeh, T., Mowlavi, N., Panuzzo, P., and et al. *Gaia Data Release 3: Stellar multiplicity, a teaser for the hidden treasure*. arXiv e-prints, arXiv:2206.05595, **2022**
74. Babusiaux, C., Fabricius, C., Khanna, S., Muraveva, T., Reylé, C., Spoto, F., Vallenari, A., Luri, X., Arenou, F., Alvarez, M. A., Anders, F., Antoja, T., Balbinot, E., Barache, C., Bauchet, N., Bossini, D., Busonero, D., Cantat-Gaudin, T., Carrasco, J. M., et al. *Gaia Data Release 3: Catalogue Validation*. arXiv e-prints, arXiv:2206.05989, **2022**
73. Gaia Collaboration, Bailer-Jones, C. A. L., Teyssier, D., Delchambre, L., Ducourant, C., Garabato, D., Hatzidimitriou, D., Klioner, S. A., Rimoldini, L., Bellas-Velidis, I., and et al. *Gaia Data Release 3: The extragalactic content*. arXiv e-prints, arXiv:2206.05681, **2022**
72. Gaia Collaboration, Creevey, O. L., Sarro, L. M., Lobel, A., Pancino, E., Andrae, R., Smart, R. L., Clementini, G., Heiter, U., Korn, A. J., and et al. *Gaia Data Release 3: A Golden Sample of Astrophysical Parameters*. arXiv e-prints, arXiv:2206.05870, **2022**
71. Gaia Collaboration, De Ridder, J., Ripepi, V., Aerts, C., Palaversa, L., Eyler, L., Holl, B., Audard, M., Rimoldini, L., Brown, A. G. A., and et al. *Gaia Data Release 3: Pulsations in main sequence OBAF-type stars*. arXiv e-prints, arXiv:2206.06075, **2022**
70. Gaia Collaboration, Drimmel, R., Romero-Gomez, M., Chemin, L., Ramos, P., Poggio, E., Ripepi, V., Andrae, R., Blomme, R., Cantat-Gaudin, T., and et al. *Gaia Data Release 3: Mapping the asymmetric disc of the Milky Way*. arXiv e-prints, arXiv:2206.06207, **2022**
69. Gaia Collaboration, Galluccio, L., Delbo, M., De Angeli, F., Pauwels, T., Tanga, P., Mignard, F., Cellino, A., Brown, A. G. A., Muinonen, K., and et al. *Gaia Data Release 3: Reflectance spectra of Solar System small bodies*. arXiv e-prints, arXiv:2206.12174, **2022**
68. Li, T. S., Koposov, S. E., Zucker, D. B., Lewis, G. F., Kuehn, K., Simpson, J. D., Ji, A. P., Shipp, N., Mao, Y. Y., Geha, M., Pace, A. B., Mackey, A. D., Allam, S., Tucker, D. L., da Costa, G. S., Erkal, D., Simon, J. D., Mould, J. R., Martell, S. L., et al. *VizieR Online Data Catalog: The Southern Stellar Stream Sp. Survey (S<sup>5</sup>) (Li+, VizieR Online Data Catalog, J/MNRAS/490/3508, 2022*
67. Tavangar, K., Ferguson, P., Shipp, N., Drlica-Wagner, A., Koposov, S., Erkal, D., Balbinot, E., García-Bellido, J., Kuehn, K., Lewis, G. F., Li, T. S., Mau, S., Pace, A. B., Riley, A. H., Abbott, T. M. C., Aguena, M., Allam, S., Andrade-Oliveira, F., Annis, J., et al. *From the Fire: A Deeper Look at the Phoenix Stream*. ApJ, 925(2), 118, **2022**

## 2021

65. Martínez-Vázquez, C. E., Monelli, M., Cassisi, S., Taibi, S., Gallart, C., Vivas, A. K., Walker, A. R., Martín-Ravelo, P., Zenteno, A., Battaglia, G., Bono, G., Calamida, A., Carollo, D., Cicuti, L., Fiorentino, G., Marconi, M., Salvadori, S., Balbinot, E., Bernard, E. J., et al. *Variable stars in Local Group galaxies - V. The fast and early evolution of the low-mass Eridanus II dSph galaxy*. MNRAS, 508(1), 1064, **2021**

64. †Gieles, M., Erkal, D., Antonini, F., Balbinot, E., and Peñarrubia, J. *A supra-massive population of stellar-mass black holes in the globular cluster Palomar 5*. *Nature Astronomy*, 5, 957, **2021**
63. Gaia Collaboration, Brown, A. G. A., Vallenari, A., Prusti, T., de Bruijne, J. H. J., Babusiaux, C., Biermann, M., Creevey, O. L., Evans, D. W., Eyer, L., and et al. *Gaia Early Data Release 3. Summary of the contents and survey properties (Corrigendum)*. *A&A*, 650, C3, **2021**
62. Usher, C., Kamann, S., Gieles, M., Hénault-Brunet, V., Dalessandro, E., Balbinot, E., and Sollima, A. *MUSE narrow field mode observations of the central kinematics of M15*. *MNRAS*, 503(2), 1680, **2021**
61. Gaia Collaboration, Antoja, T., McMillan, P. J., Kordopatis, G., Ramos, P., Helmi, A., Balbinot, E., Cantat-Gaudin, T., Chemin, L., Figueras, F., and et al. *Gaia Early Data Release 3. The Galactic anticentre*. *A&A*, 649, A8, **2021**
60. † Gaia Collaboration, Luri, X., Chemin, L., Clementini, G., Delgado, H. E., McMillan, P. J., Romero-Gómez, M., Balbinot, E., Castro-Ginard, A., Mor, R., and et al. *Gaia Early Data Release 3. Structure and properties of the Magellanic Clouds*. *A&A*, 649, A7, **2021**
59. † Gaia Collaboration, Smart, R. L., Sarro, L. M., Rybizki, J., Reylé, C., Robin, A. C., Hambly, N. C., Abbas, U., Barstow, M. A., de Bruijne, J. H. J., and et al. *Gaia Early Data Release 3. The Gaia Catalogue of Nearby Stars*. *A&A*, 649, A6, **2021**
58. Gaia Collaboration, Brown, A. G. A., Vallenari, A., Prusti, T., de Bruijne, J. H. J., Babusiaux, C., Biermann, M., Creevey, O. L., Evans, D. W., Eyer, L., and et al. *Gaia Early Data Release 3. Summary of the contents and survey properties*. *A&A*, 649, A1, **2021**
57. Fabricius, C., Luri, X., Arenou, F., Babusiaux, C., Helmi, A., Muraveva, T., Reylé, C., Spoto, F., Vallenari, A., Antoja, T., Balbinot, E., Barache, C., Bauchet, N., Bragaglia, A., Busonero, D., Cantat-Gaudin, T., Carrasco, J. M., Diakité, S., Fabrizio, M., et al. *Gaia Early Data Release 3. Catalogue validation*. *A&A*, 649, A5, **2021**
56. Gaia Collaboration, Klioner, S. A., Mignard, F., Lindegren, L., Bastian, U., McMillan, P. J., Hernández, J., Hobbs, D., Ramos-Lerate, M., Biermann, M., and et al. *Gaia Early Data Release 3. Acceleration of the Solar System from Gaia astrometry*. *A&A*, 649, A9, **2021**
55. Wan, Z., Oliver, W. H., Baumgardt, H., Lewis, G. F., Gieles, M., Hénault-Brunet, V., de Boer, T., Balbinot, E., Da Costa, G., and Mackey, D. *The dynamics of the globular cluster NGC 3201 out to the Jacobi radius*. *MNRAS*, 502(3), 4513, **2021**

## 2020

54. † Pieres, A., Girardi, L., Balbinot, E., Santiago, B., da Costa, L. N., Carnero Rosell, A., Pace, A. B., Bechtol, K., Groenewegen, M. A. T., Drlica-Wagner, A., Li, T. S., Maia, M. A. G., Ogando, R. L. C., dal Ponte, M., Diehl, H. T., Amara, A., Avila, S., Bertin, E., Brooks, D., et al. *Modelling the Milky Way - I. Method and first results fitting the thick disc and halo with DES-Y3 data*. *MNRAS*, 497(2), 1547, **2020**
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