DR. LOUISE BREUVAL

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CURRENT POSITION

European Space Agency Research Fellow

Jan 2025 - ...

Space Telescope Science Institute, Baltimore, MD, USA

RESEARCH EXPERIENCE

Postdoctoral Fellow

Jan 2022 - Dec 2024

Johns Hopkins University, Baltimore, MD, USA

Advisor: Adam G. Riess

EDUCATION

Observatoire de Paris, LESIA, France

Sept 2018 - Oct 2021

PhD in Astronomy

Thesis: The Cepheid distance scale: from the local Gaia calibration to distant galaxies (link)

Advisor: Pierre Kervella

Université Paris Saclay, France

Master's Degree in Astronomy Bachelor's Degree in Fundamental Physics 2018 2016

RESEARCH INTERESTS

Cosmology: the local distance ladder and the Hubble tension, distance indicators

Stellar physics: Cepheid variables, metallicity effects, open clusters

Techniques: photometry (HST, JWST), light curve fitting, spectroscopy (metallicity gradients)

COMPUTATIONAL SKILLS

Operating Systems MacOS, Windows, Linux Computer Languages Python, IDL, LATEX

Observation Software APT (HST, JWST), Aspro2 (VLTI), TUI (APO)

Astronomical Software DS9, DrizzlePac, DAOPHOT, DOLPHOT, DRAGONS (Gemini)

Miscellaneous/Tools MAST, CDS/VizieR

ACTIVITIES FOR THE COMMUNITY

♦ JWST Cycle 3 Time Allocation Committee Panel Member (Large Scale Structures)	2024
♦ Invited Editor of the CosmoVerse White Paper (J. Said & E. Di Valentino)	2024
♦ Organizing Committee of the weekly AstroCoffee Talks, JHU	2022 - 2024
♦ Referee for ApJ, A&A, MNRAS (4+ papers)	2021 - Present
♦ Elected Student Representative at the Executive Board of Paris Observatory	2019 - 2021

COLLABORATIONS

The SH0ES Collaboration (PI: Adam Riess)	2022 - Present
The Araucaria Project (PI: Grzegorz Pietrzyński & Wolfgang Gieren; website)	2018 - 2022

PUBLICATION SUMMARY

NASA/ADS Link to All Publications

23 Refereed Publications (5 as first author) – 1881 Citations (179 as first author)

HONORS/AWARDS/GRANTS

European Space Agency Research Fellowship	Jan 2025 - Dec 2027
HST Grant as PI of program GO-17520: \$81,000 Awarded by the Space Telescope Science Institute	May 2024
Nominated Young Scientist ISSI Team on the Hubble tension (PI: Gisella Clementini; website)	2021 - 2024
Prize of the Best Poster	Oct 2019
Cosmic Controversies Conference, Chicago, IL, USA	
OBSERVING TIME AWARDED	
HST Cycle 32, GO-17743 (co-I) – 28 orbits (PI: A. Riess)	2024
Which dust is it? Unveiling Cosmic Mysteries by Redefining Dust and Distance	
Gemini GMOS-S, GS-2024B-FT-109 (PI) – 1 hour	2024
Cepheid Light Curves in Nearby Galaxies: Gemini and HST jointly test the H	
Gemini GMOS-S, GS-2024B-FT-106 (PI) – 2.15 hours	2024
Cepheid Light Curves in Nearby Galaxies: Gemini and HST jointly test the Ho Gemini GMOS-S, GS-2024B-DD-102 (PI) – 1 hour	avoite Tension 2024
Cepheid Light Curves in Nearby Galaxies: Gemini and HST jointly test the H	
HST Cycle 31, GO-17520 (PI) – 33 orbits	2024
A 1% cross-calibration of Cepheids, TRGB, and JAGB in five nearby galaxies	
Keck/LRIS (co-I) – 1 half night (PI: Y. Murakami)	2024
Dusty Deep Universe	
Magellan/IMACS (co-I) – 1 half night (PI: Y. Murakami)	2024
Dusty Deep Universe	
Apache Point Observatory, ARCES (co-I) – 1 half night (PI: S. Li)	2024
Towards a Standardization of the J-region Asymptotic Giant Branch	2022
JWST Cycle 2, GO-4087 (co-I) – 2.9 hours (PI: C. Huang)	2023
Refining the Mira Distance Ladder with NIRCam Observations of M101	2022
JWST Cycle 2, GO-2875 (co-I) – 16 hours (PI: A. Riess) Scrutinizing the Dirtiest Cepheids, a Test of the Hubble Tension	2023
HST Cycle 30, GO-17097 (co-I) – 15 orbits (PI: A. Riess)	2022
Reinforcing the Distance Ladder with Cepheids in the Core of the SMC	2022
HST Cycle 30, SNAP-17098 (co-I) – 140 orbits (PI: A. Riess)	2022
HST and Gaia, with Light and Distances, a Foundational Legacy of the Distan	$nce\ Ladder$
Apache Point Observatory, ARCES (PI) – 4 half nights (Q2, Q3)	2022
Chemical abundances of Galactic Cepheids to reduce systematics in the distance	ce scale
HST Cycle 29, GO-16676 (co-I) – 10 orbits (PI: A. Riess)	2021
A 1% Calibration of the Distance Ladder from Cepheids Using High Precision	Cluster
Parallaxes to Reveal the Origin of the Hubble Tension	2021
JWST Cycle 1, GO-1685 (co-I) – 25.5 hours (PI: A. Riess)	2021
Uncrowding the Cepheids for an Improved Determination of the Hubble Const. ESO VLTI/PIONIER (co-I) – program 0103.D-0711 (PI: B. Trahin)	2020
IR interferometry to measure angular diameter of Cepheid variables	2020
Cerro Armazones Observatory, Chile (co-I) – 50 nights (PI: Araucaria I	Project, link) 2020
IR photometry of Milky Way Cepheids and RR Lyrae variables	J //

LANGUAGES

Workshop - Cosmology on the Steep Rise, Sexten, Italy (invited)	3 Feb 202
Seminar – ESA/ESTEC, Leiden, Netherlands (invited)	17 Dec 202
RRL/Cep Conference – Marrakesh, Morocco (invited)	28 Nov 202
Resolved Stellar Populations – Florence, Italy	10 Oct 202
APS Meeting – Sacramento, CA, USA (invited)	4 Apr 202
Seminar – Florida State University, online (invited)	11 Oct 202
MIAPP Workshop – The extragalactic distance scale, Garching, Germany	3 July 202
AstroCoffee Talk – Johns Hopkins University, Baltimore, MD, USA	1 June 202
IAU Symposium 376 – Budapest, Hungary	17 Apr 202
Seminar – Johns Hopkins University, Baltimore, MD, USA	27 Mar 202
AAS Meeting 241 SH0ES Special Session – Seattle, WA, USA	8 Jan 202
RRL/Cep Conference – La Palma, Spain	26 Sep 202
Tensions in Cosmology Conference – Corfu Summer Institute, Greece	7 Sep 202
Hot Science Colloquium – STScI, Baltimore, MD, USA	29 June 202
Rencontres de Blois Exploring the Dark Universe – Blois, France	25 May 202
MIAPP Workshop The Hubble Tension – online (invited)	29 Sep 20:
EAS Annual Meeting – online	29 June 202
Hypatia Colloquium – European Southern Observatory, online	8 June 202
Gaia EDR3 Day Presentation of Gaia DR2 results – Observatoire de Paris	3 Dec 202
Seminar – Nuclear and High Energy Physics Laboratory, Paris, France (invit	
Workshop MW-Gaia Frontiers of Stellar Physics – Zagreb, Croatia	20 Sep 20. 21 Jan 20.
Dark Energy Colloquium – Institut Henri Poincaré, Paris, France	20 Nov 20
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RRI /Con Conference Frontiers of Classical Pulsators - Cloudcroft NM II	SA 18 Oct 90.
RRL/Cep Conference Frontiers of Classical Pulsators - Cloudcroft, NM, U	
Cosmic Controversies Conference – Chicago, IL, USA Annual Meeting of the SF2A – Nice, France	8 Oct 201
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REFEREED PUBLICATIONS

FIRST AUTHOR

Breuval, L., Riess, A. G., Casertano, S., Yuan, W., Macri, L. M., Romaniello, M., Murakami, Y. S., Scolnic, D., Anand, G. S., Soszyński, I., Small Magellanic Cloud Cepheids Observed with the Hubble Space Telescope Provide a New Anchor for the SH0ES Distance Ladder, ApJ 973, 30 (2024)

Breuval, L., Riess, A. G., Macri, L. M., Li, S., Yuan, W., Casertano, S., Konchady, T., Trahin, B., Durbin, M. J., Williams, B. F., A 1.3% Distance to M33 from Hubble Space Telescope Cepheid Photometry, ApJ 951, 118 (2023)

Breuval, L., Riess A. G., Kervella P., Anderson R. I., Romaniello M., An Improved Calibration of the Wavelength Dependence of Metallicity on the Cepheid Leavitt law, ApJ 939, 89 (2022)

Breuval, L., Kervella, P., Wielgórski, P., Gieren, W., Graczyk, D., Trahin, B., Pietrzyński, G., Arenou, F., Javanmardi, B., Zgirski, B., *The influence of metallicity on the Leavitt law from geometrical distances of Milky Way and Magellanic Cloud Cepheids*, ApJ 913, 38 (2021)

Breuval, L., Kervella, P., Anderson, R. I., Riess, A. G., Arenou, F., Trahin, B., Mérand, A., Gallenne, A., Gieren, W., Storm, J., Bono, G., Pietrzyński, G., Nardetto, N., Javanmardi, B., Hocdé, V., The Milky Way Cepheid Leavitt law based on Gaia DR2 parallaxes of companion stars and host open cluster populations, A&A 643, A115 (2020)

SECOND AUTHOR

Riess, A. G., **Breuval, L.**, Yuan, W., Casertano, S., Macri, L. M., Bowers, J. B., Scolnic, D., Cantat-Gaudin, T., Anderson, R. I., Cruz-Reyes, M., *Cluster Cepheids with High Precision Gaia Parallaxes*, Low Zeropoint Uncertainties, and Hubble Space Telescope Photometry, ApJ, 938, 36 (2022)

Trahin, B., **Breuval, L.**, Kervella, P., Mérand, A., Nardetto, N., Gallenne, A., Hocdé, V., Gieren, W., Inspecting the Cepheid parallax-of-pulsation using Gaia EDR3 parallaxes, A&A 656, A102 (2021)

CO-AUTHOR

Riess, A. G., Scolnic, D., Anand, G. S., **Breuval, L.**, Casertano, S., Macri, L. M., Li, S., Yuan, W., Huang, C. D., Jha, S., Murakami, Y. S., Beaton, R., Brout, D., Wu, T., Addison, G. E., Bennett, C., Anderson, R. I., Filippenko, A. V., Carr, A., *JWST Validates HST Distance Measurements: Selection of Supernova Subsample Explains Differences in JWST Estimates of Local H*₀, arXiv:2408.11770 (2024)

Li, S., Riess, A. G., Casertano, S., Anand, G. S.; Scolnic, D. M.; Yuan, W.; **Breuval, L.**; Huang, C. D., Reconnaissance with JWST of the J-region Asymptotic Giant Branch in Distance Ladder Galaxies: From Irregular Luminosity Functions to Approximation of the Hubble Constant, ApJ 966, 20 (2024)

Riess, A. G., Anand, G. S., Yuan, W., Casertano, S., Dolphin, A., Macri, L. M., **Breuval, L.**, Scolnic, D., Perrin, M., Anderson, R. I., *JWST Observations Reject Unrecognized Crowding of Cepheid Photometry as an Explanation for the Hubble Tension at 8\sigma Confidence, ApJ, 962, 17 (2024)*

- Anand, G. S., Riess, A. G., Yuan, W., Beaton, R., Casertano, S., Li, S., Makarov, D. I., Makarova, L. N., Tully, R. B., Anderson, R. I., **Breuval, L.**, Dolphin, A., Karachentsev, I. D., Macri, L. M., Scolnic, D., *Tip of the Red Giant Branch Distances with JWST: An Absolute Calibration in NGC 4258 and First Applications to Type Ia Supernova Hosts*, ApJ 966, 89 (2024)
- Bras, G., Kervella, P., Trahin, B., Wielgórski, P., Zgirski, B., Mérand, A., Nardetto, N., Gallenne, A., Hocdé, V., **Breuval, L.**, Afanasiev, A., Pietrzyński, G., Gieren, W., *The Baade-Wesselink projection factor of RR Lyrae stars Calibration from OHP/SOPHIE spectroscopy and Gaia DR3 parallaxes*, A&A 684, 126 (2024)
- Riess, A. G., Anand, G. S., Yuan, W., Casertano, S., Dolphin, A., Macri, L. M., **Breuval, L.**, Scolnic, D., Perrin, M., Anderson, R. I., *Crowded No More: The Accuracy of the Hubble Constant Tested with High Resolution Observations of Cepheids by JWST*, ApJ 956, L18 (2023)
- Evans, N. R., Engle, S., Pillitteri, I., Guinan, E., Günther, H. M., Wolk, S., Neilson, H., Marengo, M., Matthews, L. D., Moschou, S., Drake, J. J., Winston, E. M., Moe, M., Kervella, P., **Breuval, L.**, *X-rays in Cepheids: Identifying Low-Mass Companions of Intermediate-Mass Stars*, ApJ 938, 153 (2022)
- Riess, A. G., Yuan, W., Macri, L. M., Scolnic, D., Brout, D., Casertano, S., Jones, D. O., Murakami, Y., Anand, G. S., **Breuval, L.**, Brink, T. G., Filippenko, A. V., Hoffmann, S., Jha, S. W., Kenworthy, D. W., Mackenty, J., Stahl, B. E., Zheng, W., A Comprehensive Measurement of the Local Value of the Hubble Constant with 1 km s⁻¹ Mpc⁻¹ uncertainty from the Hubble Space Telescope and the SH0ES team, ApJL 934, 7 (2022)
- Wielgórski, P., Pietrzyński, G., Pilecki, B., Gieren, W., Zgirski, B., Górski, M., Hajdu, G., Narloch, W., Karczmarek, P., Smolec, R., Kervella, P., Storm, J., Gallenne, A., **Breuval, L.**, Lewis, M., Kaluszyński, M., Graczyk, D., Pych, W., Suchomska, K., Taormina, M., Rojas Garcia, G., Kotek, A., Chini, R., Pozo Nűnez, F., Noroozi, S., Sobrino Figaredo, C., Haas, M., Hodapp, K., Mikolajczyk, P., Kotysz, K., Moździerski, D., Kolaczek-Szymański, P., An absolute calibration of the near-infrared Period-Luminosity Relations of Type II Cepheids in the Milky Way and in the Large Magellanic Cloud, ApJ 927, 89 (2022)
- Gallenne, A., Mérand, A., Kervella, P., Pietrzyński, G., Gieren, W., Hocdé, V., **Breuval, L.**, Nardetto, N., Lagadec, E., *Extended envelopes around Galactic Cepheids. V. Multi-wavelength and time-dependent analysis of IR excess*, A&A 651, A113 (2021)
- Javanmardi, B., Mérand, A., Kervella, P., **Breuval, L.**, Gallenne, A., Nardetto, N., Gieren, W., Pietrzyński, G., Hocdé, V., Borgniet, S., *Inspecting the Cepheid distance ladder: The Hubble Space Telescope distance to SNIa host galaxy NGC 5584*, ApJ 911, 12 (2021)
- Hocdé V., Nardetto, N., Matter, A., Lagadec, E., [+50 authors], **Breuval, L.**, [+99 authors], *Mid-infrared circumstellar emission of the long-period Cepheid l Carinae resolved with VLTI/ MATISSE*, A&A 651, A92 (2021)
- Hocdé, V., Nardetto, N., Borgniet, S., Lagadec, E., Kervella, P., Mérand, A., Evans, N., Gillet, D., Mathias, Ph., Chiavassa, A., Gallenne, A., **Breuval, L.**, Javanmardi, B., *Pulsating chromosphere of classical Cepheids. Calcium infrared triplet and Hα profile variations*, A&A 641, A74 (2020)

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Borgniet, S., Kervella, P., Nardetto, N., Gallenne, A., Mérand, A., Anderson, R.I., Aufdenberg, J., **Breuval, L.**, Gieren W., Hocdé V., Javanmardi B., Lagadec E., Pietrzyński G., Trahin B., *Consistent radial velocities of classical Cepheids from the cross-correlation technique*, A&A 613, A37 (2019)

Graczyk, D., Pietrzyński, G., Gieren, W., Storm, J., Nardetto, N., Gallenne, A., Maxted, P. F. L., Kervella, P., Kołaczkowski, Z., Konorski, P., Pilecki, B., Zgirski, B., Górski, M., Suchomska, K., Karczmarek, P., Taormina, M., Wielgórski, P., Narloch, W., Smolec, R., Chini, R., **Breuval, L.**, Testing systematics of Gaia DR2 parallaxes with empirical surface brightness: color relations applied to eclipsing binaries, ApJ 872, 85 (2019)

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