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Biography

Dr Elisabete da Cunha is a Portuguese-Australian astrophysicist and a senior research fellow at the University of Western Australia. She was born in Paris and raised in Viana do Castelo, Portugal, from age 7. She obtained her honours degree in Physics/Applied Mathematics (Astronomy) at the Faculty of Sciences of the University of Porto in 2005, and her doctorate from the University of Paris (Pierre & Marie Curie) in 2008. After that, she held several post-doctoral research appointments in Greece, Germany, and Australia. She has been in Australia since 2014, having lived in Melbourne and Canberra before settling in Perth in 2019. She held a Future Fellowship from the Australian Research Council (ARC) from 2016 to 2020, and is now an ASTRO-3D ARC Centre for Excellence Senior Research Fellow and holds an ongoing research position at the International Centre for Radio Astronomy Research na University of Western Australia.

Elisabete's scientific research aims to understand how galaxies such as our own Milky Way have formed and evolved in the Universe in the last 13 billion years. Specifically, she combines observations of galaxies with the world's largest telescopes with theoretical models to measure the physical properties of the most distant galaxies in the Universe. Elisabete has developed a widely-used tool (MAGPHYS) that allows astronomers to derive physical properties such as stellar mass, star formation rate, and interstellar dust content from observations of galaxies across the spectrum from the ultraviolet to the far-infrared/sub-millimetre. She is also interested in how interstellar dust forms and evolves in galaxies across cosmic time, and has recently been using the world's most powerful sub-millimetre telescope, ALMA, to address this question.

Besides research and teaching/mentoring graduate students, Elisabete also has a passion for sharing her science with the public and encouraging young students to pursue science studies. She has organized and participated in various public outreach events in Portugal and Australia. In 2019 she co-chaired a symposium of the International Astronomical Union in her home town of Viana do Castelo on "Uncovering early galaxy evolution in the ALMA and JWST era", an event in which over 170 professional astronomers from all over the world participated, and that included several outreach events for the local population.

Qualifications

Astronomy & Astrophysics, Doctorate, Modelling the ultraviolet-to-infrared spectral energy distributions of galaxies, Sorbonne Université
Award Date: 9 Oct 2008

Employment

Principal Research Fellow
Intl Centre for Radio Astronomy Research (ICRAR)
The University of Western Australia
1 Aug 2019 → present

Research outputs

The ALMA Reionization Era Bright Emission Line Survey: The molecular gas content of galaxies at $z \sim 7$

Aravena, M., Heintz, K., Dessauges-Zavadsky, M., Oesch, P., Algera, H., Bouwens, R., Da Cunha, E., Dayal, P., De Looze, I., Ferrara, A., Fudamoto, Y., Gonzalez, V., Graziani, L., Hygate, A. P. S., Inami, H., Pallottini, A., Schneider, R., Schouws, S., Sommovigo, L., Topping, M., & 2 othersVan Der Werf, P. & Palla, M., 1 Feb 2024, In: *Astronomy and Astrophysics*. 682, 11 p., A24.

Cold dust and low [O iii]/[C ii] ratios: an evolved star-forming population at redshift 7

Algera, H. S. B., Inami, H., Sommovigo, L., Fudamoto, Y., Schneider, R., Graziani, L., Dayal, P., Bouwens, R., Aravena, M., Da Cunha, E., Ferrara, A., Hygate, A. P. S., Van Leeuwen, I., De Looze, I., Palla, M., Pallottini, A., Smit, R., Stefanon, M., Topping, M. & Van Der Werf, P. P., 1 Jan 2024, In: *Monthly Notices of the Royal Astronomical Society*. 527, 3, p.

6867-6887 21 p.

The ALMA REBELS survey: obscured star formation in massive Lyman-break galaxies at $z = 4$ -8 revealed by the IRX-band M*relations

Bowler, R. A. A., Inami, H., Sommovigo, L., Smit, R., Algera, H. S. B., Aravena, M., Barrufet, L., Bouwens, R., da Cunha, E., Cullen, F., Dayal, P., De Looze, I., Dunlop, J. S., Fudamoto, Y., Mauerhofer, V., McLure, R. J., Stefanon, M., Schneider, R., Ferrara, A., Graziani, L., & 6 othersHodge, J. A., Nanayakkara, T., Palla, M., Schouws, S., Stark, D. P. & van der Werf, P. P., 1 Jan 2024, In: Monthly Notices of the Royal Astronomical Society. 527, 3, p. 5808-5828 21 p.

MOSEL Survey: JWST Reveals Major Mergers/strong Interactions Drive the Extreme Emission Lines in the Early Universe

Gupta, A., Jaiswar, R., Rodriguez-Gomez, V., Forrest, B., Tran, K. V., Nanayakkara, T., Harshan, A., da Cunha, E., Kacprzak, G. G. & Hirschmann, M., 1 Nov 2023, In: Astrophysical Journal Letters. 957, 2, L35.

The ALMA REBELS Survey: discovery of a massive, highly star-forming, and morphologically complex ULIRG at $z = 7.31$

Hygate, A. P. S., Hodge, J. A., Da Cunha, E., Rybak, M., Schouws, S., Inami, H., Stefanon, M., Graziani, L., Schneider, R., Dayal, P., Bouwens, R. J., Smit, R., Bowler, R. A. A., Endsley, R., Gonzalez, V., Oesch, P. A., Stark, D. P., Algera, H. S. B., Aravena, M., Barrufet, L., & 10 othersFerrara, A., Fudamoto, Y., Hilhorst, J. H. A., De Looze, I., Nanayakkara, T., Pallottini, A., Riechers, D. A., Sommovigo, L., Topping, M. W. & Van Der Werf, P., 13 Jul 2023, In: Monthly Notices of the Royal Astronomical Society. 524, 2, p. 1775-1795 21 p.

The ALMA REBELS Survey: the first infrared luminosity function measurement at $z \sim 7$

Barrufet, L., Oesch, P. A., Bouwens, R., Inami, H., Sommovigo, L., Algera, H., da Cunha, E., Aravena, M., Dayal, P., Ferrara, A., Fudamoto, Y., Gonzalez, V., Graziani, L., Hygate, A. P. S., de Looze, I., Nanayakkara, T., Pallottini, A., Schneider, R., Stefanon, M., Topping, M., & 1 othersvan der Werf, P., 1 Jul 2023, In: Monthly Notices of the Royal Astronomical Society. 522, 3, p. 3926-3934 9 p.

Exploring the intrinsic scatter of the star-forming galaxy main sequence at redshift 0.5 to 3.0

Huang, R., Battisti, A. J., Grasha, K., da Cunha, E., Lagos, C. D. P., Leslie, S. K. & Wisnioski, E., 1 Mar 2023, In: Monthly Notices of the Royal Astronomical Society. 520, 1, p. 446-460 15 p.

VLA Legacy Survey of Molecular Gas in Massive Star-forming Galaxies at High Redshift

Castillo, M. F., Hodge, J., Rybak, M., van der Werf, P., Smail, I., Birkin, J. E., Chen, C. C., Chapman, S. C., Hill, R., del P. Lagos, C., Liao, C. L., da Cunha, E., Rivera, G. C., Chen, J., Jiménez-Andrade, E. F., Murphy, E. J., Scott, D., Swinbank, A. M., Walter, F., Ivison, R. J., & 1 othersDannerbauer, H., 1 Mar 2023, In: Astrophysical Journal. 945, 2, 128.

The ALMA REBELS survey: the dust-obscured cosmic star formation rate density at redshift 7

Algera, H. S. B., Inami, H., Oesch, P. A., Sommovigo, L., Bouwens, R. J., Topping, M. W., Schouws, S., Stefanon, M., Stark, D. P., Aravena, M., Barrufet, L., da Cunha, E., Dayal, P., Endsley, R., Ferrara, A., Fudamoto, Y., Gonzalez, V., Graziani, L., Hodge, J. A., Hygate, A. P. S., & 4 othersde Looze, I., Nanayakkara, T., Schneider, R. & van der Werf, P. P., 1 Feb 2023, In: Monthly Notices of the Royal Astronomical Society. 518, 4, p. 6142-6157 16 p.

The Art of Measuring Physical Parameters in Galaxies: A Critical Assessment of Spectral Energy Distribution Fitting Techniques

Pacifci, C., Iyer, K. G., Mobasher, B., da Cunha, E., Acquaviva, V., Burgarella, D., Calistro Rivera, G., Carnall, A. C., Chang, Y. Y., Chartab, N., Cooke, K. C., Fairhurst, C., Kartaltepe, J., Leja, J., Małek, K., Salmon, B., Torelli, M., Vidal-García, A., Boquien, M., Brammer, G. G., & 35 othersBrown, M. J. I., Capak, P. L., Chevallard, J., Circosta, C., Croton, D., Davidzon, I., Dickinson, M., Duncan, K. J., Faber, S. M., Ferguson, H. C., Fontana, A., Guo, Y., Haeussler, B., Hemmati, S., Jafariyazani, M., Kassin, S. A., Larson, R. L., Lee, B., Mantha, K. B., Marchi, F., Nayyeri, H., Newman, J. A., Pandya, V., Pforr, J., Reddy, N., Sanders, R., Shah, E., Shahidi, A., Stevans, M. L., Triani, D. P., Tyler, K. D., Vanderhoof, B. N., de la Vega, A., Wang, W. & Weston, M. E., 1 Feb 2023, In: Astrophysical Journal. 944, 2, 141.

The REBELS ALMA Survey: efficient Ly α transmission of UV-bright $z \approx 7$ galaxies from large velocity offsets and broad line widths

Endsley, R., Stark, D. P., Bouwens, R. J., Schouws, S., Smit, R., Stefanon, M., Inami, H., Bowler, R. A. A., Oesch, P., Gonzalez, V., Aravena, M., Da Cunha, E., Dayal, P., Ferrara, A., Graziani, L., Nanayakkara, T., Pallottini, A., Schneider, R., Sommovigo, L., Topping, M., & 2 othersVan Der Werf, P. & Hutter, A., 1 Dec 2022, In: Monthly Notices of the Royal Astronomical Society. 517, 4, p. 5642-5659 18 p.

The ALMA REBELS Survey: dust continuum detections at $z > 6.5$

Inami, H., Algera, H. S. B., Schouws, S., Sommovigo, L., Bouwens, R., Smit, R., Stefanon, M., Bowler, R. A. A., Endsley, R., Ferrara, A., Oesch, P., Stark, D., Aravena, M., Barrufet, L., Da Cunha, E., Dayal, P., De Looze, I., Fudamoto, Y., Gonzalez, V., Graziani, L., & 8 othersHodge, J. A., Hygate, A. P. S., Nanayakkara, T., Pallottini, A., Riechers, D. A., Schneider, R., Topping, M. & Van Der Werf, P., 1 Sept 2022, In: Monthly Notices of the Royal Astronomical Society. 515, 3, p. 3126-3143 18 p.

The ALMA REBELS Survey: Average [C ii] 158 μm Sizes of Star-forming Galaxies from $z \sim 7$ to $z \sim 2$
Fudamoto, Y., Smit, R., Bowler, R. A. A., Oesch, P. A., Bouwens, R., Stefanon, M., Inami, H., Endsley, R., Gonzalez, G., Schouws, S., Stark, D., Algera, H. S. B., Aravena, M., Barrufet, L., da Cunha, E., Dayal, P., Ferrara, A., Graziani, L., Hodge, J. A., Hygate, A. P. S., & 20 othersInoue, A. K., Nanayakkara, T., Pallottini, A., Pizzati, E., Schneider, R., Sommovigo, L., Sugahara, Y., Topping, M., van der Werf, P., Bethermin, M., Cassata, P., Dessauges-Zavadsky, M., Ibar, E., Faisst, A. L., Fujimoto, S., Ginolfi, M., Hathi, N., Jones, G. C., Pozzi, F. & Schaerer, D., 1 Aug 2022, In: Astrophysical Journal. 934, 2, 7 p., 144.

The UV 2175Å; Attenuation bump and its correlation with PAH emission at $z \approx 2$

Shivaei, I., Boogaard, L., Diaz-Santos, T., Battisti, A., Da Cunha, E., Brinchmann, J., Maseda, M., Matthee, J., Monreal-Ibero, A., Nanayakkara, T., Popping, G., Vidal-Garcia, A. & Weilbacher, P. M., 1 Aug 2022, In: Monthly Notices of the Royal Astronomical Society. 514, 2, p. 1886-1894 9 p.

The ALMA REBELS Survey: cosmic dust temperature evolution out to $z \sim 7$

Sommovigo, L., Ferrara, A., Pallottini, A., Dayal, P., Bouwens, R. J., Smit, R., Da Cunha, E., De Looze, I., Bowler, R. A. A., Hodge, J., Inami, H., Oesch, P., Endsley, R., Gonzalez, V., Schouws, S., Stark, D., Stefanon, M., Aravena, M., Graziani, L., Riechers, D., & 10 othersSchneider, R., Van Der Werf, P., Algera, H., Barrufet, L., Fudamoto, Y., Hygate, A. P. S., Labb  , I., Li, Y., Nanayakkara, T. & Topping, M., 1 Jul 2022, In: Monthly Notices of the Royal Astronomical Society. 513, 3, p. 3122-3135 14 p.

MeerKAT uncovers the physics of an odd radio circle

Norris, R. P., Collier, J. D., Crocker, R. M., Heywood, I., Macgregor, P., Rudnick, L., Shabala, S., Andernach, H., Da Cunha, E., English, J., Filipovi  , M., Koribalski, B. S., Luken, K., Robotham, A., Sekhar, S., Thorne, J. E. & Vernstrom, T., 1 Jun 2022, In: Monthly Notices of the Royal Astronomical Society. 513, 1, p. 1300-1316 17 p.

Reionization Era Bright Emission Line Survey: Selection and Characterization of Luminous Interstellar Medium Reservoirs in the $z > 6.5$ Universe

Bouwens, R. J., Smit, R., Schouws, S., Stefanon, M., Bowler, R., Endsley, R., Gonzalez, V., Inami, H., Stark, D., Oesch, P., Hodge, J., Aravena, M., Da Cunha, E., Dayal, P., Looze, I. D., Ferrara, A., Fudamoto, Y., Graziani, L., Li, C., Nanayakkara, T., & 11 othersPallottini, A., Schneider, R., Sommovigo, L., Topping, M., Van Der Werf, P., Algera, H., Barrufet, L., Hygate, A., Labb  , I., Riechers, D. & Witstok, J., 1 Jun 2022, In: Astrophysical Journal. 931, 2, 160.

Searching Far and Long. I. Pilot ALMA 2 mm Follow-up of Bright Dusty Galaxies as a Redshift Filter

Cooper, O. R., Casey, C. M., Zavala, J. A., Champagne, J. B., Da Cunha, E., Long, A. S., Spilker, J. S. & Staguhn, J., 1 May 2022, In: Astrophysical Journal. 930, 1, 32.

The ALMA REBELS survey: the dust content of $z \sim 7$ Lyman break galaxies

Dayal, P., Ferrara, A., Sommovigo, L., Bouwens, R., Oesch, P. A., Smit, R., Gonzalez, V., Schouws, S., Stefanon, M., Kobayashi, C., Bremer, J., Algera, H. S. B., Aravena, M., Bowler, R. A. A., Da Cunha, E., Fudamoto, Y., Graziani, L., Hodge, J., Inami, H., De Looze, I., & 5 othersPallottini, A., Riechers, D., Schneider, R., Stark, D. & Endsley, R., 1 May 2022, In: Monthly Notices of the Royal Astronomical Society. 512, 1, p. 989-1002 14 p.

The ALMA REBELS Survey. Epoch of Reionization giants: Properties of dusty galaxies at $z \approx 7$

Ferrara, A., Sommovigo, L., Dayal, P., Pallottini, A., Bouwens, R. J., Gonzalez, V., Inami, H., Smit, R., Bowler, R. A. A., Endsley, R., Oesch, P., Schouws, S., Stark, D., Stefanon, M., Aravena, M., Da Cunha, E., De Looze, I., Fudamoto, Y., Graziani, L., Hodge, J., & 10 othersRiechers, D., Schneider, R., Algera, H. S. B., Barrufet, L., Hygate, A. P. S., Labb  , I., Li, C., Nanayakkara, T., Topping, M. & Van Der Werf, P., 1 May 2022, In: Monthly Notices of the Royal Astronomical Society. 512, 1, p. 58-72 15 p.

Tomography of the environment of the COSMOS/AzTEC-3 submillimeter galaxy at $z \sim 5.3$ revealed by Ly α and MUSE observations

Guaita, L., Aravena, M., Gurung-Lopez, S., Cantalupo, S., Marino, R., Riechers, D., Da Cunha, E., Wagg, J., Algera, H. S. B., Dannerbauer, H. & Cox, P., 1 Apr 2022, In: *Astronomy and Astrophysics*. 660, A137.

COLDz: Probing Cosmic Star Formation with Radio Free-Free Emission

Algera, H. S. B., Hodge, J. A., Riechers, D. A., Leslie, S. K., Smail, I., Aravena, M., Cunha, E. D., Daddi, E., Decarli, R., Dickinson, M., Gim, H. B., Guaita, L., Magnelli, B., Murphy, E. J., Pavesi, R., Sargent, M. T., Sharon, C. E., Wagg, J., Walter, F. & Yun, M., 10 Jan 2022, In: *Astrophysical Journal*. 924, 2, 76.

The ALMA REBELS Survey: specific star formation rates in the reionization era

Topping, M. W., Stark, D. P., Endsley, R., Bouwens, R. J., Schouws, S., Smit, R., Stefanon, M., Inami, H., Bowler, R. A. A., Oesch, P., Gonzalez, V., Dayal, P., da Cunha, E., Algera, H., van der Werf, P., Pallottini, A., Barrufet, L., Schneider, R., De Looze, I., Sommovigo, L., & 4 others Whitler, L., Graziani, L., Fudamoto, Y. & Ferrara, A., 2022, In: *Monthly Notices of the Royal Astronomical Society*. 516, 1, p. 975-991 17 p.

The atacama large aperture submillimetre telescope: key science drivers

Ramasawmy, J., Klaassen, P. D., Cicone, C., Mroczkowski, T. K., Chen, C. C., Cornish, T., Da Cunha, E., Hatziminaoglou, E., Johnstone, D., Liu, D., Perrott, Y., Schimek, A., Stanke, T. & Wedemeyer, S., 2022, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy XI*. Zmuidzinas, J. & Gao, J.-R. (eds.). SPIE, 1219007. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 12190).

Normal, dust-obscured galaxies in the epoch of reionization

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Measurements of the dust properties in z>1-3 submillimeter galaxies with alma

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The evolution of the UV luminosity and stellar mass functions of Lyman- α emitters from $z \sim 2$ to $z \sim 6$

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The Evolution of the IR Luminosity Function and Dust-obscured Star Formation over the Past 13 Billion Years

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Ultrafaint [C ii] Emission in a Redshift = 2 Gravitationally Lensed Metal-poor Dwarf Galaxy

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An ALMA/NOEMA survey of the molecular gas properties of high-redshift star-forming galaxies

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Physical properties and evolution of (sub-)millimetre-selected galaxies in the galaxy formation simulation shark
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An ALMA Survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS Field: The Far-infrared/Radio Correlation for High-redshift Dusty Star-forming Galaxies

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The ALMA Spectroscopic Survey in the Hubble Ultra Deep Field: Multiband Constraints on Line-luminosity Functions and the Cosmic Density of Molecular Gas

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The ALMA Spectroscopic Survey in the Hubble Ultra Deep Field: Constraining the Molecular Content at $\log(M_*/M_\odot) \sim 9.5$ with CO Stacking of MUSE-detected $z \sim 1.5$ Galaxies

Inami, H., Decarli, R., Walter, F., Weiss, A., Carilli, C., Aravena, M., Boogaard, L., González-López, J., Popping, G., Da Cunha, E., Bacon, R., Bauer, F., Contini, T., Cortes, P. C., Cox, P., Daddi, E., Díaz-Santos, T., Kaasinen, M., Riechers, D. A., Wagg, J., & 2 othersVan Der Werf, P. & Wisotzki, L., 20 Oct 2020, In: Astrophysical Journal. 902, 2, 113.

The ALMA Spectroscopic Survey Large Program: The Infrared Excess of $z = 1.5\text{-}10$ UV-selected Galaxies and the Implied High-redshift Star Formation History

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The ALMA Spectroscopic Survey in the Hubble Ultra Deep Field: The Nature of the Faintest Dusty Star-forming Galaxies

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