Lluís Galbany



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Synopsis of the CV

I am an observational astrophysicist with broad, multidisciplinary interests spanning supernova physics, stellar and galaxy evolution, and cosmology. I obtained a PhD in Physics from the Universitat Autònoma de Barcelona in 2011 under the supervision of Prof. Ramon Miquel at the Institut de Física d'Altes Energies (IFAE). I have held postdoctoral positions at CENTRA/IST in Lisbon under the supervision of Dr. Vallery Stanishev and Prof. Ana M. Mourão, as a FONDECYT postdoctoral fellow at the Astronomy Department of the Universidad de Chile working with Prof. Mario Hamuy, as a research associate in the Department of Physics and Astronomy at the University of Pittsburgh with Prof. Michael Wood-Vasey, and as a Marie Skłodowska-Curie fellow at the Universidad de Granada, integrated in Prof. Inma Domínguez's group. After a couple of years as a Ramón y Cajal Fellow, I am currently a Científico Titular at the Institute of Space Sciences (ICE-CSIC), also affiliated with the Institut d'Estudis Espacials de Catalunya (IEEC). I have always enjoyed scientific independence and have conducted competitive research in collaborative and stimulating scientific environments.

So far, I have published 400 articles with over 27,000 citations and an h-index of 73 (ADS, Dec 2024). My work has been presented at international conferences, where I have delivered a total of 82 talks, including 12 invited talks at various conferences and 35 invitations to give seminars at different institutions. I have been the PI of 93 successful observational proposals, awarded on a competitive basis at the largest observatories worldwide, and have actively participated in more than 100 other observational campaigns. I have led analyses within major collaborations (SDSS-II SN, CALIFA, PESSTO, DES, HSC-SSP, MaNGA, J-PLUS, LSST, WFIRST, DESI, ZTF, LS4) and had the opportunity to mentor 3 postdocs, 11 PhD students, 15 graduate students, and 14 undergraduate students, including two funded 3-month PhD research visits and 2 ERASMUS+ undergraduate programs.

Education

Sep 2008 - Jun 2023 B.S in Economics (4-year degree), Universitat Autònoma de Barcelona (UAB).

Sep 2006 - Oct 2011 Ph.D. in Physics, Institut de Física d'Altes Energies - IFAE, U. Autònoma de Barcelona - UAB.

Supernova studies in the SDSS-II/SNe Survey: spectroscopy of the peculiar SN 2007qd, and photometric properties of Type-Ia supernovae as a function of the distance to the host galaxy.

Supervisor: Prof. Ramon Miquel.

Sep 2006 - Apr 2008 Master degree in Physics, U. Autònoma de Barcelona (UAB).

Tests of DES Charge Coupled Devices. Supervisors: Ramon Miquel and Manel Martínez.

Jun 2007 Certificate of Teaching Proficiency, Institute of Education Sciences (ICE-UAB).

Sep 2001 - Jun 2006 B.S. in Physics (5-year degree), U. Autònoma de Barcelona (UAB).

Research activity

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Sep 2021 - Dec 2023 Ramon y Cajal fellow (RyC 2019). Institut de Ciències de l'Espai (ICE-CSIC).

Sep 2019 - Aug 2021 Marie Skłodowska-Curie fellow (MSCA-IF 2018). Universidad de Granada.

Sep 2016 - Aug 2019 **Postdoctoral research associate.** University of Pittsburgh.

Oct 2013 - Aug 2016 **FONDECYT 2014 postdoctoral fellow.** Universidad de Chile.

Nov 2011 - Sep 2013 Postdoctoral researcher. Instituto Superior Técnico (IST), Universidade de Lisboa.

Fellowships and grants awarded

| Sep 2024 | Proyecto Nacional I+D+i AYA PID2023-151307NB-I00. Funding: 140,750 EUR. |
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| Dec 2023 | CSIC I-COOP project (COOPB23040). Funding: 23,929.60 EUR. |
| Dec 2023 | CSIC I-LINK B project (ILINK23001). Funding: 23,949.64 EUR. |
| Apr 2023 | Ajuts Programa INVESTIGO (2023). Funding: 66.217,84 EUR |
| Jan 2023 | Ajuts de suport a grups de recerca de Catalunya (SGR-Cat 2021). Funding: 24,000 EUR |
| Jul 2022 | Ajuts per al Foment de la Cultura Científica a Catalunya Joan Oró (FCRI). Funding: 15,000 EUR |
| Jul 2022 | Hubble Space Telescope Cycle 30 $\#17179$ proposal. Funding: \sim 90,000 USD. |
| Dec 2021 | CSIC MOST 2021 project (OSTCSI0003). Funding: 23,946.20 EUR. |
| Dec 2021 | CSIC I-LINK A project (LINKA20409). Funding: 23,914.92 EUR. |
| Sep 2021 | Hubble Space Telescope Cycle 29 $\#16741$ proposal. Funding: \sim 90,000 USD. |
| Sep 2021 | Proyecto Nacional I+D+i AYA PID2020-115253GA-I00. Funding: 155,577 EUR. |
| Sep 2021 | Proyecto Intramural Especial (PIE) CSIC 20215AT016. Funding: 150,000 EUR. |
| Jul 2020 | Ramon y Cajal Fellowship (RyC 2019, ranked 1st). Funding: 308,600 EUR. |
| May 2020 | UGR conference organization funding. Amount: 1,000 EUR. |
| Mar 2020 | NOAJ grant for visitor researcher program. Funding: 285,000 JPY. |
| Feb 2019 | Marie Skłodowska-Curie Actions - Individual Fellowship (MSCA-IF): 172,932.48 EUR. |
| Jan 2019 | The future of SN host galaxies studies workshop. Funding PITT-PACC: 8,000 USD. |
| Apr 2018 | New advances in NIR SNIa science workshop. Funding PITT-PACC: 10,000 USD. |
| Mar 2018 | SNe II cosmology with the LSST workshop. Funding PITT-PACC: 4,000 USD. |
| Mar 2017 | FINCA grant for visitor researcher program. Funding: 2,650 EUR. |
| Nov 2016 | Preparing for SN Science in the LSST Era workshop. Funding LSST Enabling science: 19,750 USD. |
| Apr 2013 | FONDECYT Postdoctoral fellowship 2014. CONICYT - Chile: 74,352,000 CLP |
| Jun 2004 | SENECA-SICUE student fellowship, Universidad de La Laguna. Funding: 4,520 EUR. |
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Total funding awarded: approx. 1,400,000 EUR

Teaching activity

| Nov 2021 | Guest Lecturer Techniques in Observational Astronomy, Purdue University, IL. |
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| From Sep 2021 | Lecturer MasterCosmos BCN. Postgraduate in HEP, Astrophysics & Cosmology, ICE-IFAE. |
| | Neutron Stars, Black Holes and Gravitational Waves; Galaxies and Extragalactic Astrophysics; Introduction to Physics of the Cosmos; Cosmology (Coordinator). |
| Sep 2019 - Aug 2021 | Lecturer Department of Theoretical and Cosmological Physics, U. Granada. |
| | Stellar Physics, Physics Laboratory, General Physics. |
| Nov 2016 | Guest Lecturer 2nd SELGIFS Advanced School on IFS Data Analysis, UAM, Madrid, Spain. |
| Aug 2014 | Guest Lecturer Guillermo Haro Advanced School on IFS Techniques and Analysis, INAOE, |
| | Puebla, Mexico. |
| Sep 2008 - Sep 2010 | Teaching Assistant Physics Department of U. Autònoma de Barcelona. |
| | General Physics, Mathematical Methods, Physics Laboratory. |
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Supervision and mentorship

Postdocs

| | Achille Fiore , ICE-CSIC. Gravitational wave electromagnetic counterparts. Funding: Ayudas Juan de la Cierva (JdC), Ref.: JDC2022-050171-I. <i>REJECTED</i> |
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| May 23 - Apr 26 | Claudia Gutiérrez, IEEC/ICE-CSIC. CC SN physiscs. Funding: Ajudes Beatriu de Pinoś (BP 2021), MCSA COFUND Action. |
| Sep 22 - Dec 25 | Maria Kopsachielli, ICE-CSIC. SN remnants environments. Funding: ICE María de Maetzu (MdM) postdoctoral fellowship. Funding: Ayudas Juan de la Cierva (JdC), Ref.: JDC2022-049447-I. |

Nov 21 - Dec 24 Tomás Müller, ICE-CSIC. Supernova cosmology in the NIR.

Funding: Proyecto Intramural Especial (PIE) CSIC 20215AT016.

Funding: Ayudas Juan de la Cierva (JdC), Ref.: FJC2021-047124-I.

PhD students

- Hao Yu Miao, ICE-UAB. PhD co-advisor with Caludia Gutiérrez. Characterization of extreme SNe. From Jan 2024 Funding: JAE-PRE CSIC fellowship.
- From Nov 2023 Alaa Alburai, ICE-UAB. PhD advisor. Subluminous 1991bg-like SNe Ia. Funding: Proyecto Intramural Especial (PIE) CSIC 20215AT016.
- Maider González, ICE-UAB. PhD co-advisor with Caludia Gutiérrez. Physics of SNe in early phases. From Nov 2023 Funding: Institute of Space Sciences MdM fellowship.
- **Dane Cross**, ICE/IFAE-UAB. *PhD co-advisor with Carles Sánchez*. σ_8 at low and high redshift. From Sep 2022 Funding: Proyecto Intramural Especial (PIE) CSIC 20215AT016. Funding: Ajuts Joan Oró per a personal investigador predoctoral en formació (FI-2023)".
- From Sep 2022 Cristina Jiménez, ICE-UAB. PhD advisor. IFS SN la environments characterization. Funding: "Ayudas para contratos predoctorales para la formación de doctores 2020".
- Kim Phan, ICE-UAB. PhD advisor. H₀ determination from SN Ia in the near-infrared. From May 2022 Funding: Ajuts per a la contractació de personal investigador predoctoral en formació (FI-2022)".
- Sep 20 Sep 24 Raúl González Díaz, INAOE/ICE-UAB. PhD co-advisor with Fabián Rosales. Diffuse interstellar gas in IFS. (See selected refereed papers #96, #101)
- Jared Hand, U. Pittsburgh. Supervised by W. M. Wood-Vasey. Sep 18 - Sep 21 Stellar population synthesis. (See selected refereed papers #70)
- Daniel Perrefort, U. Pittsburgh. Supervised by W. M. Wood-Vasey. Sep 18 - Feb 21 Subluminous SNe. (See selected refereed papers #62)
 - Abr-Jul 2016 Laura Sánchez-Menguiano, U. Granada. Supervised by I. Pérez and S. F. Sánchez. Radial migration. (See selected refereed papers #21) Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2015".
 - Mar 2016 Manuel Emilio Moreno-Raya, U. Complutense. Supervised by M. Mollá and A. López-Sánchez. Elemental abundances of int-z SN host galaxies. (See selected refereed papers #35)
 - Aug-Nov 2014 Manuel Emilio Moreno-Raya, U. Complutense. Supervised by M. Mollá and A. López-Sánchez. Elemental abundances of low-z SN host galaxies. (See selected refereed papers #12, #22). Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2013".

Master students

- Noor Ali, Institute of Space Sciences (ICE-CSIC). Supervisor. Mar-Jun 24
 - The host galaxies of the Dark Energy Survey 5YR SN sample.
- Sep 23 Jun 24 Ramon Sanfeliu, U. Autònoma de Barcelona. TFM supervisor. Metallicity dependence on SHOES Cepheids calibration.
- Mar 23 Jun 23 **Christos Thomopoulos**, U. Patras, Greece. *ERASMUS+*. SNIa NIR diversity and improved standardization.
- Mar 23 Jun 23 John Kyriakopoulos, U. Patras, Greece. ERASMUS+. ZTF SNIa Hubble diagrams as a function of SN properties.
- Carlos Valero, ICE-CSIC. TFM supervisor. Nov 22 - Sep 23 Host galaxy dependences on SHOES H_0 measurement. (paper in prep.)
- Nov 22 -Aug 23 Lara Piscarreta, U. Lisboa. JAE-ICU supervisor. Young supernova programme with GTC. (paper in prep.)
 - From Oct 22 Utsav Siwatoki, Kathmandu U. (Nepal). TFM supervisor. FP and TF distances of elliptical/spiral galaxies observed with IFS. (paper in prep.)
- Oct 22 Apr 23 Carla Barnera, ICE-CSIC. JAE-ICU supervisor. Spectral evolution of SNe Ia in DES. (paper in prep.)
- Sep 20 Jul 21 Sara Muñoz Torres, U. Granada. TFM supervisor. The oxygen abundance dependence on the Cepheid period in SH0ES. (paper in prep.)

| Oct 19 - Jul 20 | Román Fernández Aranda, U. Complutense Madrid. <i>TFM supervised with M. Mollà</i> . Stellar populations of SN host galaxies at high-z 0.5 <z<1.0. (see="" <i="">selected refereed papers #80)</z<1.0.> |
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| Sep 19 - Jul 20 | Raúl González Díaz, U. Granada. <i>TFM supervised with R García-Benito</i> . NCR method in broad and narrow band data from J-PLUS. (See <i>selected refereed papers</i> #93) |
| Dec 18 - Jul 20 | Nataliya Ramos Chernenko , U. Granada. <i>TFM supervised with I. Domínguez</i> . The local environment of Type Ia supernovae with IFS. |
| Nov 18 - Jun 19 | Macarena García del Valle, U. Complutense Madrid. <i>TFM supervised with M. Mollà</i> . Type la supernova environments at high redshift. (See <i>selected refereed papers</i> #80) |
| Oct 18 - Sep 19 | Isaac Lozano Rey , U. Internacional de València (VIU). <i>TFM supervisor</i> . The imprint of hydrogen-rich core collapse supernovae from their parent populations. |
| Sep 17 - Jun 18 | Asier Castrillo, U. Autónoma Madrid. <i>TFM supervised with Y. Ascasibar</i> . Supernova DTDs in nearby galaxies. (See <i>selected refereed papers</i> #63) |
| Undergrad students | |
| Jun-Jul 24 | Joan Alcaide, Joves i Ciència, Fundació Catalunya La Pedrea. <i>Host</i> . Type la supernovae Hubble diagram using observations from the ESO archive. |
| Dec 23 - Jul 24 | Sandra Guerra , U. Autònoma de Barcelona. <i>TFG supervisor</i> . 1991bg-like SNe la in the ZTF survey. |
| Jun 22 - Jul 23 | Ramon Sanfeliu, U. Autònoma de Barcelona. Summer internship & TFG supervisor. Database of FLOWS NIR SN Ia. Peculiar velocities of SNe Ia. |
| Feb-Jul 22 | Cristina Jordà , U. Politècnica de Catalunya. <i>TFG supervised with R. Morros</i> . Spectral diversity of CC SNe with machine learning. |
| Sep 20 - Jul 21 | Antonio láñez Ferres, U. Granada. <i>TFG supervisor</i> . Studying the diversity of type la supernovae in the NIR. (See selected refereed papers #76) |
| Sep 20 - Jul 21 | María Delgado Mancheño , U. Granada. <i>TFG supervisor</i> . The type Ia NIR Hubble diagram constructed with ANDICAM JHK data. |
| Nov 19 - Jul 20 | Darío García Redecillas , U. Granada. <i>TFG supervisor</i> . Studying the diversity of subluminous type la supernovae from twins. |
| Nov 19 - Jul 20 | Lamberto Oltra Nieto, U. Granada. TFG supervisor. The local environment of supernovae as seen by J-PLUS. (See selected refereed papers #93) |
| Sep 16 - Jun 17 | Asier Castrillo, U. Autónoma Madrid. TFG supervised with Y. Ascasibar. Supernova rates in nearby galaxies. (See selected refereed papers #63) |
| Sep 16 - Sep 17 | Nicolette M. Kier, U. Pittsburgh. HII region statistics in PISCO. (See <i>selected refereed papers</i> #34) |
| Sep 16 - Mar 17 | Yiwen Huang, Carnegie Mellon U. Statistical study of SN Ia 91bg-like. (See selected refereed papers #50) |
| Jan-Sep 2016 | Luis Mora, U. Chile. <i>TFG supervisor</i> . Measuring CO at SN locations with CARMA. (See <i>selected refereed papers</i> #25) |
| Jan-Jul 2015 | Tania Moraga , U. Chile. <i>TFG supervisor</i> . Type II multiwavelength light-curve characterization. (See <i>selected refereed papers</i> #11) |
| Mar-Des 2013 | Ismael Pessa, U. Chile. <i>TFG supervisor</i> . SNe la properties as a function of the distance to host galaxy. (See <i>selected refereed papers</i> #71) |
| | Membership, service and responsibilities |
| Since Jul 2024 | Chair of the Department of Extragalactic Astrophysics and Cosmology at ICE-CSIC. Member of the Strategy Board of ICE-CSIC. |
| Since May 2024 | Member of the Teaching Committee of ICE-CSIC. Coordinator of the UAB Master on HEP and Astrophysics at ICE-CSIC. |
| Since Jan 2024 | Member of the IEEC Director Research Advisor Council. |
| Since 2023 | Member of the Nancy Roman PIT for Supernova Cosmology (PI: D. Scolnic). |
| Since 2023 | Member of the La Silla Southern Supernova Survey (LS4). Seat in the Collaboration Council. |

Since 2021 Sponsored member of the Dark Energy Spectroscopic Instrument (DESI). Since 2018 Member of the Electro-magnetic counterparts of GW at the VLT (ENGRAVE). MUSE instrument scientist (with J. Lyman). 2017 - 2023 Member of the WFIRST SIT for SNIa cosmology (PI: S. Perlmutter). 2016 - 2024 Member of the J-PLUS collaboration. Leading the SN environments working group. Since 2016 Full member of the LSST Dark Energy Science Collaboration (DESC). Serving as a deputy Publication Board Manager (since Nov 2024). Serving in the Collaboration Council (2023-2024). Served as a co-chair of the Speakers Bureau (2021-2023). Served in the Publication Board committee (2019-2021). Since 2016 External collaborator of the Hyper Suprime Cam Survey (HSCS) for SNe II and SLSNe. 2016 - 2021 Member (until 2019; EC since then) of the Sloan Digital Sky Survey IV (SDSS-IV). PI of an ancillary program in MaNGA to observe SN host galaxies. Member (EC until 2021) of the Dark Energy Survey (DES). Since 2015 Leading the SNII working group. 2015 - 2016 Member of the Chilean Scientific Coordination Committee for the LSST. Since 2013 Member of Public ESO Spectroscopic Survey of Transient Objects (PESSTO → ePESSTO+). Serving as the ePESSTO+ Ombudsperson, and in the Target And Alert (TAT) committee. PI of the SN environments and the SNIa cosmology in the NIR science groups. 2011 - 2017 Associate member of the Calar Alto Legacy Integral Field Area Survey (CALIFA). Responsible of the external ancillary data catalogues. 2008 - 2014 External member of the Sloan Digital Sky Survey II - Supernova Survey (SDSS-II/SNe). 2006 - 2011 Participant member of the Dark Energy Survey (DES)

Publication list

Here you can find links of my publications in the ADS, Google Scholar, and ORCID.

Selected refereed papers

- 102. Binary progenitor systems for Type Ic supernovae M. Solar, M. J. Michałlowski, J. Nadolny, L. Galbany, et al. NATURE COMM., 15:7667 (2024), arXiv:2409.01906.
- 101. Accuracy of transient spectral classification tools: How accurate are transient spectral classification tools? Y-L. Kim, I. Hook, A. Milligan, L. Galbany, et al. PASP, 136:11 (2024), arXiv:2410.10963.
- 100. BETIS: II. Revisiting the ionisation mechanism of the extraplanar diffuse ionised gas R. González-Díaz, F. F. Rosales-Ortega, L. Galbany. A&A, 691:25 (2024), arXiv:2406.17123.
- 99. Circumstellar interaction signatures in the low luminosity type II SN 2021gmj N. Meza Retamal, Y. Dong, K. A. Bostroem, S. Valenti, L. Galbany, et al. A&A, 971:141 (2024), arXiv:2401.04027.
- 98. 1991T-like Supernovae
 M. M. Phillips, C. Ashall, P. J. Brown, L. Galbany, et al. APJS, 273:16 (2024), arXiv:2405.15027.
- 97. Narrow absorption lines from intervening material in supernovae. I. Measurements and temporal evolution S. González-Gaitán, C. P. Gutiérrez, J. P. Anderson, A. Morales, L. Galbany, et al. A&A, 687:108 (2024), arXiv:2403.11677.
- 96. BETIS: Bidimensional Exploration of the warm-Temperature Ionised gaS I. Sample presentation and 1st results R. González-Díaz, F. F. Rosales-Ortega, L. Galbany, J. P. Anderson, et al. A&A, 687:20 (2024), arXiv:2311.14254.
- 95. Supernova Remnant properties and Luminosity Functions in NGC 7793 using MUSE IFS M. Kopsacheili, C. Jiménez-Palau, L. Galbany, P. Boumis, R. González-Díaz. MNRAS, 530:1078 (2024), arXiv:2403.17053.
- 94. The Calar Alto Legacy Integral Field Area Survey: Spatial resolved properties S.F. Sánchez, J.K. Barrera-Ballesteros, L. Galbany, R. García-Benito, et al. RMXAA, 60:41 (2024), arXiv:2304.13070.
- 93. Tracing back the birth environments of SNIa progenitor stars: A pilot study based on 44 early-type host galaxies Y-L. Kim, L. Galbany, I. Hook, Y. Kang. MNRAS, 529:3806 (2024), arXiv:2403.13057.
- 92. Supernova environments in J-PLUS. NCR distributions and SPS, combining narrow- and broad-band filters R. González, L. Galbany, T. Kangas, R. García-Benito, et al. A&A, 684:104 (2024), arXiv:2312.13830.
- 91. Recovering lost light: discovery of supernova remnants with integral field spectroscopy H. Martínez-Rodríguez, L. Galbany, C. Badenes, et al. APJ, 963:125 (2024), arXiv:2309.14901.

- 90. Strong Carbon Features and a Red Early Color in the Underluminous Type Ia SN 2022xkq J. Pearson, D. J. Sand, P. Lundqvist, L. Galbany, et al. APJ, 960:29 (2024), arXiv:2309.10054.
- 89. The Calar Alto Legacy Integral Field Area Survey: extended and remastered data release S. F. Sánchez, L. Galbany, C.J.Walcher, R.García-Benito, et al. MNRAS, 526:5555 (2023), arXiv:2304.13022.
- 88. An updated measurement of the Hubble constant from near-infrared observations of Type Ia supernovae L. Galbany, T. de Jaeger, Adam G. Riess, T. E. Miler-Bravo, et al. A&A, accepted 679:95 (2023), arXiv:2209.02546.
- 87. A metallicity dependence on the occurrence of core-collapse supernovae T. Pessi, J. P. Anderson, J. D. Lyman, J. L. Prieto, L. Galbany, et al. APJL, 955:L29 (2023), arXiv:2306.11962.
- 86. Fast and Not-so-Furious: Case Study of the Fast and Faint Type IIb SN 2021bxu D. D. Desai, C. Ashall, B. J. Shappee, N. Morrell, L. Galbany, et al. MNRAS, 524:767 (2023), arXiv:2303.13581.
- 85. A characterization of ASAS-SN core-collapse supernova environments with VLT+MUSE: I. Sample selection. T. Pessi, J. L. Prieto, J. P. Anderson, L. Galbany, J. D. Lyman, et al. A&A, 677:28 (2023), arXiv:2306.11961.
- 84. Environmental dependence of Type IIn supernova properties T. Moriya, L. Galbany, C. Jiménez-Palau, J. P. Anderson, et al. A&A, 677:20 (2023), arXiv:2306.09647.
- 83. A graph-based spectral classification of Type II supernovae R. de Souza, S. Thorp, L. Galbany, E. E. O. Ishida, S. González-Gaitán, et al. ASCOM, 44:100715 (2023), arXiv:2206.14335.
- 82. Examining the Properties of Low-luminosity Hosts of Type Ia Supernovae from ASAS-SN T. Holoien, V. Berger, J. Hinkle, L. Galbany, et al. APJ, 950:108 (2023), arXiv:2207.07657.
- 81. SN 2016ije: An SN 2002es-likeSNIa Exploded in a Metal-poor and Low-surface Brightness Galaxy Z. Li, T. Zhang, X. Wang, J. Zhang, L. Galbany, et al. APJ, 950:17 (2023), arXiv:2305.09417.
- 80. Stellar Populations in SNIa host galaxies at intermediate-high z: SF and OH enrichment histories I. Millan-Irigoyen, M. G. del Valle-Espinosa, R. Fernández-Aranda, L. Galbany, et al. MNRAS, 517:3312 (2022), arXiv:2209.10242.
- 79. The Absolute Magnitudes of 1991T-like Supernovae M. M. Phillips, C. Ashall, C. R. Burns, C. Contreras, L. Galbany, et al. APJ, 938:47 (2022), arXiv:2209.08031.
- 78. Testing the Homogeneity of Type Ia Supernovae in the Near-Infrared for Accurate Distance Estimations T. Müller-Bravo, L. Galbany, E. Karamehmetoglu, M. Stritzinger, C. Burns, et al. A&A, 665:123 (2022), arXiv:2207.04780.
- 77. A 5 per cent measurement of the Hubble constant from Type II supernovae T. de Jaeger, L. Galbany, A. G. Riess, B. J. Shappee, et al. MNRAS, 514:4620 (2022), arXiv:2203.08974.
- 76. HostPhot: global and local photometry of galaxies hosting supernovae or other transients T. Müller-Bravo, L. Galbany. JOSS, 7(76):4508 (2022), arXiv:2208.08117.
- 75. Cosmological Results from the RAISIN Survey: Using SNe Ia in NIR as a Novel Path to Measure the DE EoS D. Jones, K. Mandel, R. P. Kirshner, . L. Galbany, et al. APJ, 933:172 (2022), arXiv:2201.07801.
- 74. Systematic errors on optical-SED M_s estimates for galaxies across cosmic time and their impact on cosmology A. Paulino-Afonso, S. González-Gaitán, L. Galbany, et al. A&A, 662:86 (2022), arXiv:2202.04078.
- 73. A Tale of Two Type Ia Supernovae: The fast-declining siblings SNe 2015bo and 1997cn W. Hoogendam, C. Ashall, L. Galbany, B. Shappee, et al. APJ, 928:103 (2022), arXiv:2109.14644.
- 72. Aperture-corrected spectroscopic type la supernova host galaxy properties

 L. Galbany, M. Smith, S. Duarte Puertas, S. González-Gaitán, I. Pessa, et al. A&A, 659:89 (2022), arXiv:2112.02517.
- 71. Infant excess emission reveals the origin of a normal Type Ia Supernova Y. Qi Ni, D-S Moon, M. R. Drout, A. Polin, . L. Galbany, et al. NATAS, 6,568 (2022), arXiv:2202.08889.
- 70. The Dependence of the Type Ia Supernova Host Bias on Observation or Fitting Technique J. Hand, S. Liu, L. Galbany, et al. APJ, 925:115 (2022), arXiv:2102.08980.
- 69. The effects of varying colour-luminosity relations on type la supernova science. S. González-Gaitán, T. de Jaeger, L. Galbany, et al. MNRAS, 508:4656 (2021), arXiv:2009.13230.
- 68. Are Type Ia Supernovae in Restframe H Brighter in More Massive Galaxies?

 K. A. Ponder, W. MN. Wood-Vasey, A. Weyant, N. T. Barton, L. Galbany, et al. APJ, 923:197 (2021), arXiv:2006.13803.
- 67. Carnegie Supernova Project: The First Homogeneous Sample of 2003fg-like Type Ia Supernova. C. Ashall, J. Lu, E. Y. Hsiao, P. Hoeflich, M. Phillips, L. Galbany, et al. APJ, 922:205 (2021), arXiv:2106.12140.
- 66. Probing the Progenitors of SNe Ia using Circumstellar Material Interaction Signatures. P. Clark, K. Maguire, M. Bulla, L. Galbany, et al. MNRAS, 507:4367 (2021), arXiv:2107.09034.

- 65. ASASSN-15hy: an under-luminous, red 03fg-like type la supernova.

 J. Lu, C. Ashall, E. Y. Hsiao, P. Hoeflich, L. Galbany, et al. APJ, 920:107 (2021), arXiv:2107.08150.
- 64. The delay time distribution of supernovae from IFS of nearby galaxies.

 A. Castrillo, Y. Ascasibar, L. Galbany, S. F. Sánchez, et al. MNRAS, 501:3122 (2021). arXiv:2012.11958.
- 63. Supernova 2018cuf: A Type IIP supernova with a slow fall from plateau.
 Y. Dong, S. Valenti, K. A. Bostroem, D. J. Sand, J. E. Andrews, L. Galbany, et al. APJ, 906:56 (2021). arXiv:2010.09764.
- 62. The stellar metallicity distribution function of galaxies in the CALIFA survey.

 A. Mejía-Narváez, S. F. Sánchez, E. A. Lacerda, L. Carigi, L. Galbany, et al. MNRAS, 499:4838 (2020). arXiv:2009.13712.
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- 53. The AMUSING++ Compilation: I. Full Sample Characterization and Galactic-Scale Outflows Selection. C. López-Cobá, S. F. Sánchez, J. P. Anderson, I. Cruz-González, L. Galbany, et al. AJ, 159:167 (2020), arXiv:2002.09328.
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 H. Kuncarayakti, K. Maeda, J. P. Anderson, M. Hamuy, K. Nomoto, L. Galbany MNRAS, 458:2063 (2016), arXiv:1512.02108.

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- 8. PESSTO: survey description and products from the first data release. S. J. Smartt, S. Valenti, M. Fraser, C. Inserra, D. R. Young, .(with) L. Galbany, et al. A&A, 579:A40 (2015), arXiv:1410.2210.
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 J. P. Anderson, P. A. James, S. M. Habergham, L. Galbany, H. Kuncarayakti PASA, 32:e019 (2015), arXiv:1504.04043.
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 R. García-Benito, S. Zibetti, S.F. Sánchez, B. Huseman, .(with) L. Galbany, et al. A&A, 576:135 (2015), arXiv:1409.8302
- Census of HII regions in NGC6754 derived with MUSE: Constraints on the metal mixing scale.
 S.F. Sánchez, L. Galbany, J. Falcón-Barroso, P. Sánchez-Blázquez, E. Pérez, et al. A&A, 573:A105 (2015), arXiv:1411.4967
- 4. Nearby SN host galaxies from the CALIFA Survey: I. Sample, data analysis, and correlation to SF regions L. Galbany, V. Stanishev, A. M. Mourão, M. Rodrigues, H. Flores, et al. A&A, 572:A38 (2014), arXiv:1409.1623
- 3. Aperture corrections for galaxy properties computed from the CALIFA survey.

 J. Iglesias-Páramo, J.M. Vílchez, L. Galbany, S.F. Sánchez, F.F. Rosales-Ortega, et al. A&AL, 553:L7 (2013), arXiv:1304.16440
- 2. Type-la Supernova properties as a function of the distance to host galaxy in the SDSS-II/SNe survey. L. Galbany, R. Miquel, L. Ostman, P. J. Brown, D. Cinabro, et al. APJ, 755:125 (2012), arXiv:1206.2210
- 1. The Subluminous Supernova 2007qd: A Missing Link in a Family of Low-Luminosity Type Ia Supernovae. C. M. McClelland, P. M. Garnavich, L. Galbany, R. Miquel, R. J. Foley, et al. APJ, 720:704-716 (2010), arXiv:1007.2850

Thesis

- 3. Doughnut economics and cities: a comparative approach.
 - Lluís Galbany, Bachelor thesis, Universitat Autònoma de Barcelona, Facultat d'Economia i Empresa, 6 06 2023 Supervisor: Dr. Claudio Cattaneo.
- 2. Supernova studies in the SDSS-II/SNe Survey: spectroscopy of the peculiar SN 2007qd, and photometric properties of Type-Ia supernovae as a function of the distance to the host galaxy.

Lluís Galbany, PhD thesis, Universitat Autònoma de Barcelona, Departament de Física, 28 10 2011
Supervisor: Dr. Ramon Miquel. Tribunal: Dr. Robert C. Nichol, Dr. Enrique Fernàndez, Dr. Francisco J. Castander
BASES DE DATOS DE TESIS DOCTORALES (TESEO), REF. 936108

1. Tests of DES Charge Coupled Devices

Lluís Galbany, Master thesis (DEA), Universitat Autònoma de Barcelona, Departament de Física, 18 04 2008

Supervisor: Dr. Ramon Miquel, Dr. Manel Martínez. Trib.: Dr. Eduard Massó, Dr. Enrique Fernàndez, Dr. Francisco J. Castander BIBLIOTECA DE CIÈNCIA I TECNOLOGIA (UAB), T-53 2008 GAL

Invited presentations and selected talks

(I: invited, S: seminar, C: contributed):

- Jul 2024 C: Cosmology results with 1500 new high-z SNe Ia using the full DES dataset, RC SEA 2024, Granada.
- Nov 2023 S: Environmental studies of supernovae with Integral Field Spectroscopy, IfA-Honolulu, HI.
- Apr 2023 I: Introduction to Integral Field Spectroscopy, ENGRAVE Data analysis meeting, Napoli.

- Jan 2023 C: Supernova science at ICE-CSIC, CRISPisha, Cádiz.
- Sep 2022 S: A new measurement of H0 with SNe Ia in the NIR, RC SEA 2022, La Laguna.
- Jul 2022 S: A SN in the borough: IFS so SN host galaxies, NAOJ, Tokyo.
- Jul 2022 S: Integral field spectroscopy so SN host galaxies, U Kyoto, Kyoto.
- Jun 2022 C: Cosmography of Laniakea: SNe Ia, pec. vel. and DM, NOT conference, La Palma.
- May 2022 C: The metallicity of SN la progenitors, Estallidos de formación estelar meeting, Madrid.
- Apr 2022 I: Data preparation for the LSST, Danish Participation in LSST, Copenhagen, Denmark.
- Feb 2022 S: IFS of SN hosts, U. Purdue, IN.
- Feb 2022 S: Cornering H0 form SNe Ia in the NIR, ICE-CSIC.
- Feb 2022 S: Cornering H0 form SNe Ia in the NIR, IAC, Tenerife.
- Dec 2021 S: Dust, H0, SNe, King's College London.
- May 2020 C: Type Ia SNe evolution studied with IFS: the low and high-z examples, CSIC, Madrid.
- Apr 2020 S: A SN in the borough: IFS of SN hosts, NYU Abu Dhabi (POSTPONED COVID-19).
- Mar 2020 C: The Legacy Andalusian Transient IFU Network Observatory (LATINO), IAA, Granada.
- Jan 2020 C: The AMUSING survey, CRISPINHO workshop, Granada.
- Oct 2019 S: A SN in the borough: integral field spectroscopy of SN hosts, UNAM México.
- Oct 2019 C: IFS follow up of CSP SNIa host galaxies, Carnegie Obs, Passadena.
- Sep 2019 C: Dones and ToDos in IFS surveys of SN hosts, U. de Southampton, UK.
- Sep 2019 S: Constraining progenitors with integral field spectroscopy, U. de Granada.
- Sep 2019 S: Surveys of integral field spectroscopy of SN hosts, Florida State University, Tallahassee, FL.
- Aug 2019 I: Progenitors of Type la supernovae conference, Lijiang, Yunnan, China.
- Jul 2019 C: Analyzing Integral field spectroscopy data CRISP workshop, Lisbon, Portugal.
- Feb 2019 C: A 1991bg-like SNIa 2016hnk, Carnegie SN Project meeting, Saint George Island, FL.
- Dec 2018 C: Testing WFIRST simulations with SNEMO, Lawrence Berkeley National Lab, CA.
- Nov 2018 S: SN Ia local environments with IFS, University of Pennsylvania, Philadelphia PA.
- Nov 2018 S: SN 2016hnk, a Ca-rich 91bg-like SN Ia with a light echo, ESO, Santiago, Chile.
- Nov 2018 C: The local environment of type Ia SNe as seen with IFS, Bariloche, Argentina.
- Jul 2018 C: A Ca-rich faint 91bg-like type Ia SN, Institute for Astrophysics, Honolulu HI.
- Jul 2018 C: CSP SN Ia environments with IFS. Carnegie SN Project meeting, IfA, Honolulu HI.
- Jul 2018 C: A Ca-rich faint 91bg-like type Ia SN, Lorentz center, Leiden.
- Jun 2018 S: Inferring SN progenitor properties with J-PLUS, CEFCA, Teruel.
- Jun 2018 S: Using the environment to infer SN progenitor properties, U. Zaragoza.
- Jun 2018 S: Using the environment to infer SN progenitor properties, U. Barcelona.
- Jun 2018 S: The Pmas/ppak Integral-field SN hosts COmpilation (PISCO), IAA Granada.
- Jun 2018 S: Using the environment to infer SN progenitor properties, U. Autònoma de Barcelona.
- Dec 2017 S: The Pmas/ppak Integral-field SN hosts COmpilation (PISCO), CfA Harvard MA.
- Oct 2017 C: The local environment of type Ia SNe as seen with IFS, Carnegie Observatories, Pasadena.
- Mar 2017 S: The All-weather MUse SN Integral field Nearby Galaxies survey, U. Oulu, Finland.
- Mar 2017 S: PISCO and AMUSING: IFS of SN environments, University of Turku, Finland.
- Feb 2017 S: Integral field spectroscopy of SN environments, University of Toronto, Canada.
- Feb 2017 S: What's there? Integral field spectroscopy to study SN environments, U. Pittsburgh PA.
- Nov 2016 I: The All-weather MUse AN Integral field Nearby Galaxies survey, IFS school UAM, Madrid.
- Nov 2016 I: SN remnant dominated regions and SN rates with IFS, IFS school UAM, Madrid.
- Nov 2016 C: Spectrophot. SNII template: A SiFTO fitter for SNeII. LSST SN workshop, Pittsburgh.
- Aug 2016 C: SN environmental studies through IFS. SNe through the ages:, Easter Island, Chile.
- Jul 2016 C: SN environmental studies through IIFS. XII RC SEA 2016, Bilbo, Spain.
- Jul 2016 C: The All-weather MUse SN Int.-field Nearby Galaxies (AMUSING). EWASS 2016, Athens, Greece.
- Jun 2016 C: Standardization of SN II with statistical methods. Meeting on Fundamental Cosmology, Barcelona.
- Jun 2016 S: Environmental studies of SNe. CIEMAT, Madrid, Spain.
- May 2016 C: Statistical methods in SN II light-curves. South American Supernovae 2016, La Plata, Argentina.
- Mar 2016 C: The local environment of SNe as seen with IFS. SOCHIAS 2016, Antofagasta, Chile.
- Jun 2015 C: Nearby supernova host galaxies from the CALIFA survey. EWASS 2015, La Laguna, Spain.
- Jun 2015 C: The local environment of SNe., IX PESSTO meeting, Paris, France.
- May 2015 S: Characterizing SN host galaxies with IFS. European Southern Observatory, Santiago, Chile.
- Apr 2015 C: PCA of type II SN light-curves. South American Supernovae 2015, Santiago, Chile.
- Apr 2015 C: SN studies with IFS: the CALIFA contribution. CALIFA Busy Week, Firenze, Italy.
- Sep 2014 S: Characterizing SN host galaxies with IFS. Universidad de Guanajuato, Mexico.

- Aug 2014 I: What can IFS shine on SN progenitors. I: Studying SN environments with IFS. Guillermo Haro Advanced School on IFS Techniques and Analysis, INAOE, Puebla, Mexico.
- May 2014 S: Integral Field Spectroscopy of nearby supernova host galaxies, IEEC-UAB.
- Nov 2013 C: Studying SNe environment with CALIFA Survey. XIV LARIM, Florianópolis, Brasil.
- Jul 2013 C: Integral Field Unit spectroscopy of supernova host galaxies. XXIII ENAA, CAAUL, Portugal.
- Apr 2013 S: IFU spectroscopy of SN host galaxies. Universidad de Chile, Santiago, Chile.
- Apr 2013 C: IFU spectroscopy of SN host galaxies. CALIFA 5th Busy Week, AIP, Potsdam, Germany.
- Jan 2013 S: Using the environment to understand SNe properties. CIEMAT, Madrid, Spain.
- Nov 2012 C: Studying CCSNe environment with CALIFA Survey. CALIFA 4th Busy Week, IAA, Granada.
- Aug 2012 C: *Type-la SNe standarization accounting for the environment*. Modern Cosmology: Early Universe, CMB and LSS, Benasque Center for Science, Benasque, Spain.
- Oct 2010 C: Type-la SDSS-II/SNe properties as a function of the distance to their host galaxies. SDSS-II/SN Collaboration Meeting, Argonne National Laboratory, IL, USA.

Observing experience

— Only those as a Principal investigator (PI):

Hubble Space Telescope (HST)

2.4m / WFC3 Cycle 30. 17179, 232 orbits (Service mode; SM).

Cycle 29. 16741, 218 orbits (Service mode; SM).

Cerro Paranal Observatory (CPO)

 $8.1 \text{m UT4} / \text{MUSE} \quad 24 \text{B. } 0114. \text{D-} 0158, \ 12 \ \text{hours (SM)}.$

20B. 106.2104.001, 53 hours (SM).

17A. 099.D-0022(A), 45 hours (SM).

16B. 098.D-0115(A), 99 hours (SM).

14B. 60.A-9329(A), 4 hours (SM).

8.1m UT4 / HAWKI 22A. 0109.22WW.001, 66 hours (SM).

8.1m UT1 / KMOS 24A. 113.26AP, 3 hours (SM).

22A. 0109.22Y8, 3 hours (SM).

19B. 0104.D-0498(A), 36 hours (SM).

Las Campanas Observatory (LCO)

6.5m Baade Telescope / FIRE 16B. CN2016B-17, 2 nights (Visitor mode; VM).

6.5m Clay Telescope / LDSS3 16B. CN2016B-16, 4 nights (VM).

Observatorio Roque de Los Muchachos (ORM)

10.4m Gran Telescopio Canarias / HIPERCAM 23B-DDT. GTC09, 1 hour.

10.4m Gran Telescopio Canarias / EMIR 24B. GTC1-B, 16 hours.

24A. GTCMULTIPLE2B, 16 hours. 23B. GTCMULTIPLE2D, 10 hours.

23B. GTCMULTIPLE4B, 25 hours.

23A. 3-GTC5-B, 10 hours.

22B. 4-MULTIPLE-2, 10 hours.

22A. 49-MULTIPLE-2, 10 hours.

21A. 57-GTC36, 18 hours.

20B. 5-GTC3, 20 hours.

10.4m Gran Telescopio Canarias / OSIRIS 24B. GTC1-A, 8 hours.

24A. GTCMULTIPLE2B, 8 hours.

23B. GTCMULTIPLE2D, 14 hours.

23B. GTCMULTIPLE4B, 20 hours.

23A. 3-GTC4-A, 14 hours.

22B. 4-MULTIPLE-2, 8 hours.

22A. 49-MULTIPLE-2, 14 hours.

20B. 11-GTC9, 6 hours (ToO).

20A. 76-GTC52, 10 hours (ToO).

4.5m William Herschel Telescope / WEAVE 23B. —, 6h (SM).

4.5m William Herschel Telescope / PFQHY 21B. SW2021a13, 16h (SM).

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21B. SW2021a26, 28h (SM).
       4.5m William Herschel Telescope / ACAM-LIRIS
                                                       20A. 150-WHT5, 4 nights.
            2.5m Nordic Optical Telescope / NOTCam
                                                       24B. 2-NOT1-A, 6 nights.
                                                       24A. 32-NOT2-A, 6 nights.
                                                       23B. 31-NOT2, 6 nights.
                                                       23A. 5-NOT1, 6 nights.
                                                       22A. 38-NOT2, 6 nights.
                                                       21B. 74-NOT10, 6 nights.
                                                       21A. 58-NOT4, 6 nights.
                                                       20B. 6-NOT2-A, 6 nights.
                                                       24B. 2-LT1-B, 20 hours.
                     2.0m Liverpool Telescope / LIRIS
                                                       24A. LT11, 20 hours.
                          Gemini Observatory (GO)
                              8.2m G-North / GMOS
                                                       18B. NOAO-2018B-0060, 10 hours (SM).
                                                       18A. NOAO-2018A-0125, 1.1 hours (SM).
                                                       18A. NOAO-2018A-0040, 10 hours (SM).
                              8.2m G-South / GMOS
                                                       15B. GS-2015B-Q-8, 10 hours (SM).
  Cerro Tololo Inter-American Observatory (CTIO)
                1.3m SMARTS telescope / ANDICAM
                                                       19A. 2019A-0081, 42 hours (SM).
                                                       18B. 2018B-0016, 42 hours (SM).
                                                       18A. 2018A-0047, 30 hours (SM).
Centro Astronómico Hispano de Andalucía (CAHA)
                       3.5m telescope / OMEGA2000
                                                       25A. 25A-3.5-003, 3 nights (SM).
                                                       24B. 24B-3.5-002, 3 nights (SM).
                                                       24A. 24A-3.5-002, 4 nights (VM).
                                                       23B. 23B-3.5-005, 4 nights (VM).
                                                       23A. 23A-3.5-004, 4 nights (VM).
                                                       22B. 22B-3.5-008, 3 nights (VM).
                                                       22A. 22A-3.5-002, 4 nights (VM).
                                                       21B. 21B-3.5-003, 4 nights (VM).
                                                       21A. F21-3.5-003, 4 nights (SM).
                                                       20B. H20-3.5-002, 4 nights (SM).
                        3.5m telescope / PMAS-Ppak
                                                       25A. 25A-3.5-004, 4 nights (VM).
                                                       24B. 24B-3.5-001, 5 nights (VM).
                                                       24A. 24A-3.5-004, 4 nights (VM).
                                                       23B. 23B-3.5-004, 4 nights (VM).
                                                       23A. 23A-3.5-003, 4 nights (VM).
                                                       22B. 22B-3.5-007, 4 nights (VM).
                                                       22A. 22A-3.5-011, 5 nights (VM).
                                                       20B. H20-3.5-001, 4 nights (VM).
                                                       20A. F20-3.5-008, 5 nights (VM).
                                                       18B. H18-3.5-008, 6 nights (VM).
                                                       18A. F18-3.5-001, 3 nights (SM).
                                                       17B. H17-3.5-001, 2 nights (SM).
                                                       17A. F17-3.5-001, 3 nights (SM).
                                                       16B. H16-3.5-012, 2 nights (SM).
                                                       16A. F16-3.5-006, 5 nights (SM).
                                                       15B. H15-3.5-004, 4 nights (VM).
                             2.2m telescope / CAFOS
                                                       25A. 25A-2.2-003, 2n (VM).
                                                       24B. 24B-2.2-001, 24h (ToO).
       Astronomical Australian Observatory (AAO)
                       4.2m AAT telescope / KOALA
                                                       18A. A/2018A/19, 11 nights (VM).
    Observatorio Astroómico de Javalambre (OAJ)
                            0.8m telescope / T80Cam
                                                       21A. 2000182, 44.24 hours (SM).
                                                       20B. 2000177, 47.52 hours (SM).
                                                       20A. 1900165, 47.52 hours (SM).
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19B. 1900154, 47.52 hours (SM). 19A. 1800146, 46.9 hours (SM).

Observatori Astronòmic del Montec (OAdM)

0.8m telescope / T80Cam

25A-26B. p683, 200 hours (remote). 23A-24B. p477, 280 hours (remote). 22B. p425, 45 hours (remote). 22A. p389, 45 hours (remote). 21B. p351, 45 hours (remote).

Apache Point Observatory (APO)

2.5m SDSS telescope / BOSS 17B. MaNGA Ancillary program, 30 objects (SM).

Organization of scientific meetings and seminar series

- Jul 2025 Co-chair of the 8th Summer School of ICE on cosmology.
- Dec 2024 Organizer of the ZTF SN la cosmology workshop, Barcelona, Dec 10th to 12th.
- Sep 2024 SOC member of the LSST in Europe 6 conference, La Palma, Sep 6th to 10th.
- Jul 2024 SOC member of the *Transients session* in the SEA 2024, Granada, Jul 15th to 19th.
- Jul 2024 SOC co-Chair of the Dark Energy Science Collaboration summer meeting, Zurich, Jul 8th to 12th.
- Jul 2024 SOC member of the Transient hosts in the 2020ies EAS 2024 special session, Padova, Jul 1st to 5th.
- May 2024 Organizer of The Dark Energy Survey Collaboration Meeting, S'Agaró, May 27th to 31st.
- Jun 2022 Organizer of the ePESSTO+ collaboration meeting, Barcelona, Jun 20th to 22nd.
- May 2022 LOC/SOC member of the 16th Iberian Cosmology (IberiCOS) 2022 meeting, May 4-6.
- Sep 2021 SOC member of the Encontro Nacional de Astronomia e Astrofisica (ENAA) 2021, Sep 8-10.
- Jul 2020 SOC member of the Dark Energy Science Collaboration (DESC) virtual meeting, Jul 20-24.
- Jun 2020 Chair of the special session Supernova host environments at the EAS 2020, Leiden, NL.
- Mar 2020 SOC member of the Public Surveys and new instrumentation for CAHA, Granada, Mar 12-13.
- Jan 2020 Organizer of the workshop *CRISPINHO*: Correcting reddening intelligently for cosmological SN probes, Granada, Jan 27-31.
- Sep 2019 Organizer of the workshop The future of SN host galaxies studies II, Southampton, UK, Sep 23-25.
- Jan 2019 Organizer of the workshop The future of SN host galaxies studies, Pittsburgh, USA, Jan 22-24.
- Apr 2018 Organizer of the workshop New advances in NIR SNIa science, Pittsburgh, USA, April 11-13.
- Mar 2018 Organizer of the workshop SN II cosmology in the LSST, Pittsburgh, USA, March 5-9.
- 2017 2019 Organizer of the Astro Seminars at the Department of Physics and Astronomy U. Pittsburgh.
 - Nov 2016 Organizer of the workshop *Preparing for supernova science in the LSST era: a kick-off workshop*, Pittsburgh, USA, November 16-18.
 - Nov 2016 LOC member of the DEC LSST Hack Week, Pittsburgh, US, November 7-11.
 - Aug 2016 LOC member of the conference Supernovae through the ages: understanding the past to prepare for the future, Easter Island, Chile, August 9-13. Funding: several sources including ESO-Chile, AURA, Carnegie observatories, MAS, and CASSACA.
 - Aug 2016 Organizer of the workshop *SIDH: Supernova is in da house*, Santiago, Chile, August 1-5. Funding: \$200,000 CLP from the Millennium Institute for Astrophysics (MAS).
- 2014 2015 Organizer of 'Supernova Journal Club' seminar series (DAS).
- 2009 2010 Organizer of PhD students 'Thursday's Meeting seminar series (IFAE).

Press and outreach

- 17/02/2025 Outreach talk *Univers, encantat de conèixe't* at the Llagostera library. 23/01/2025 Outreach talk *Univers, encantat de conèixe't* at the Sant Julià de Ramis library.
- 20/01/2025 Outreach talk *Univers, encantat de conèixe't* at the Caldes de Malavella library.
- 21/11/2024 Outreach talk *Univers*, *encantat de conèixe't* at the Calonge library.

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Outreach talk Univers, encantat de conèixe't at the Lloret de Mar library.
17/10/2024
27/04/2024
              Outreach talk at the Museu de Ciències Naturals de Granollers about DESI results (link, link).
25/04/2024
              Outreach talk within the Cicle d'astronomia of the Centre Excursionista de Cardedeu (link).
01/03/2024
              Speaker at the Career prospect for highs school students in La Garriga (link)
18/02/2024
              Outreach activity at the Barcelona Museum of Contemporary Art (link)
28/06/2023
              Participation in the Enciclopedia.cat Divulcat blog (link).
13/06/2023
              Outreach talk about SNe and cosmology at the Agrupación Astronómica de Madrid (link).
13/06/2023
              Interview in La esfera celeste Astronomy blog (link).
              Premiere of La veu còsmica, podcast of poetry, music and science (Funded by FCRI; link).
08/06/2023
              Telescope observation of the night sky at the Ermita de Sant Hilari, Cardedeu.
30/05/2023
26/05/2023
              Outreach talk about DESI at the Granollers planetarium (link).
12/05/2023
              Press release on Multiwavelength observations of the accretion event AT2021lwx, (ICE, IEEC).
26/04/2023
              Outreach talk within the Cicle d'astronomia of the Centre Excursionista de Cardedeu (link).
25/04/2023
              Outreach talk for the Aula d'Extensió Universitària del VO (AGEVO) at the Museu de Granollers.
29/11/2022
              Ciència amb tirador, short public talks in a bar. Third session at Bar Anònims, Granollers (link).
17/11/2022
              Nit de la Recerca, telescope observations at UAB.
27/10/2022
              Outreach talk at the Agrupació Astronòmica de Barcelona (ASTER).
14/09/2022
              Ciència amb tirador, short public talks in a bar. Second session at Bar Anònims, Granollers (link).
19/05/2022
              Interview at Vallès Oriental TV, about astronomy and the city of Granollers (link).
18/05/2022
              Ciència amb tirador, short public talks in a bar. First session at Bar Anònims, Granollers (link).
28/04/2022
              Amb G de Granollers interview for the strategic plan of the city (link).
17/02/2022
              Press release on SN 2018aoz, the earliest detection of a SNIa to date, (ICE, IEEC, CSIC).
12/12/2021
              Interview in La esfera celeste Astronomy blog (link).
24/11/2021
              Outreach talk at l'Alzina primary school, Molins de Rei.
18/03/2021
              Two outreach talks at the mental health unit of the juvenile detention center Els Til·lers.
12/11/2020
              Interview in La esfera celeste Astronomy blog (link).
14/11/2019
              Outreach talk at José Hurtado Primary school, Granada. "What is a star?" (IAU100).
08/11/2019
              Participation in "Semana de la Ciencia" at UGR. Speaker in Stand 5 "Stellar evolution" (link).
23/06/2018
              "Perfils", interview in the online newspaper Nació digital (in Catalan, Nació Digital).
              Interview in the La Xarxa television (in Catalan, Vallès Oriental TV).
20/06/2018
30/05/2018
              'Career day' at the Environmental Charter School, outreach talk. Pittsburgh PA.
18/03/2016
              Outreach talk at the Colegio Su Santidad Juan XXIII, San Joaquín, Chile (CONICYT).
18/03/2016
              Outreach talk at the Colegio Malaquias Concha, La Granja, Chile (CONICYT).
01/12/2015
              Outreach talk at the Liceo Bicentenario Zapallar high school, Curicó, Chile (link).
30/11/2015
              Outreach talk at the Liceo Complejo Educacional Javiera Carrera high school, Talca, Chile (link)
13/04/2015
              Outreach talk at the Pintacuentos primary school, Las Condes, Chile (link).
              Press article in the online newspaper Nació digital (Nació Digital).
03/02/2014
10/02/2014
              Short interview for the La Xarxa television (Vallès Oriental TV).
28/12/2012
              Outreach talk at the Ilatargi Astronomical Association, Oñati, Spain (El Correo).
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Languages

Catalan Native speaker
Spanish Native speaker
English CEFR C1
Portuguese CEFR A2.

Astronomical society membership

2020 - present
 2019 - present
 2016 - present
 2015 - 2016
 Sociedad Española de Astronomía (SOCHIAS)

Other merits

Dec 2023 Chair of the ICE postdoctoral Fellowship committee. Mar 2023 Reviewer for the Spanish National Research Agency (AEI). Dec 2022 i3 credential issued by the Spanish Ministry of Universities. Nov 2022 External referee for the Polish National Science Centre. Nov 2022 Member of the Tribunal in João Gonçalves (U. Lisboa) Master thesis defense. Jan 2022 Member of the ICE postdoctoral Fellowship committee. Oct 21-Dec 23 Treasurer of the Social and Solidarity Economy consumers association La Magrana Vallesana. May 2021 Reviewer for the Hubble Space Telescope Cycle 29 proposals. 2020-2021 ESO Observing Programmes Committee (OPC) Panel member for periods P106, P108 (P107 cancelled), and P109. Apr 2020 Profesor Contratado Doctor credential awarded from the Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA). Oct 2019 Reviewer for the Hubble Space Telescope Cycles 26 and 27 Mid-cycle proposals. May 2019 CIRTL course on Diversity in the College Classroom. Apr 2019 Lecturer (Lector) credential issued by the Agència per a la Qualitat Universitària (AQU) de Catalunya. Dec 2018 Associate certification from the Center for the Integration of Research, Teaching, and Learning (CIRTL), University of Pittsburgh. 2017 DDT External reviewer for the Spanish Time Allocation Committee (CAT) of the Instituto de Astrofísica de Canarias (IAC). Jul 2016 Member of the Tribunal in Manuel Moreno-Raya PhD thesis defense. 2016A semester External reviewer for the Spanish Time Allocation Committee (CAT) of the Instituto de Astrofísica

Tenured assistant professor (Recerca) credential issued by the Agència per a la Qualitat Universitària

- (AQU) de Catalunya.

 Jun 2011 Training Program for Higher Education Teachers (FDES-UAB).
- Jun 2010 Corrector of University Access Exams (PAU).

de Canarias (IAC).

Dec 2015

2008 Radiological protection program at UTPR (UAB).

DECEMBER 2024