Lluís Galbany



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Synopsis of the CV

I am an observational astrophysicist with broad and multidisciplinary interests spanning supernova physics, massive stars, galaxy evolution, and cosmology. I obtained a PhD degree in Physics from Universitat Autònoma de Barcelona in Oct 2011 under the supervision of Prof. Ramon Miquel. I have been a postdoctoral researcher at the CENTRA/IST in Lisboa, a FONDECYT postdoctoral fellow at the Astronomy Department of Universidad de Chile, and a research associate at the Department of Physics and Astronomy of University of Pittsburgh. From September 2019 I am at Universidad de Granada as a Marie Skłodowska-Curie fellow. I have always enjoyed scientific independence, conducting competitive research in enjoyable scientific environments.

So far, I have published 165 articles with more than 8850 citations and an h-index of 44 (ADS, Nov 2019). My work has been presented in international conferences giving in total 52 talks, including 25 invitations to deliver seminars at different institutions. I have been PI of 26 successful observational proposals in a competitive basis in the largest observatories around the world, and participated in other 28 observational campaigns. I have led analyses within major collaborations (SDSS-II SN, CALIFA, PESSTO, DES, HSC-SSP, MaNGA, J-PLUS, LSST, WFIRST), and I had the chance to mentor 11 undergraduate and 12 graduate students, including two funded 3-months research visits.

Education

Sep 2006 - Oct 2011 Ph.D. in Physics, 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: Prof. Ramon Miquel and Dr. Manel Martínez.

Jun 2007 Certificate of Teaching Proficiency, Institute of Education Sciences, UAB.

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

Research activity

From Sep 2019	Marie Skłodowska-Curie fellow. Universidad de Granada.
Sep 2016 - Aug 2019	Postdoctoral research associate. University of Pittsburgh.
Oct 2013 - Aug 2016	FONDECYT postdoctoral fellow. Universidad de Chile.

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

Fellowships and grants awarded

Feb 2019	Marie Skłodowska-Curie Action - 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.

Total funding awarded: approx. 315,000 EUR

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Sep 2019 - present Nov 2016	Lecturer Department of Theoretical and Cosmological Physics, U. Granada. Invited professor '2nd SELGIFS Advenced School on IFS Data Analysis', UAM, Madrid, Spain.
Aug 2014	Invited professor 'Guillermo Haro Advanced School on IFS Techniques and Analysis', INAOE, Puebla, Mexico.
Sep 2008 - Sep 2010	Teaching Assistant (TA) Physics Department of U. Autònoma de Barcelona. General Physics Mathematical Methods Physics Laboratory

	Puebla, Mexico.			
Sep 2008 - Sep 201	Teaching Assistant (TA) Physics Department of U. Autònoma de Barcelona. General Physics, Mathematical Methods, Physics Laboratory.			
	Student supervision			
From Nov 2019	Studying the diversity of subluminous type la supernovae from twins. Darío García Redecillas, undergraduate student (LG co-director), Universidad de Granada.			
From Nov 2019	The local environment of supernovae as seen by J-PLUS. Lamberto Oltra Nieto, undergraduate student (LG co-director), Universidad de Granada.			
From Oct 2019	Stellar populations of supernova host galaxies at high-z 0.5 <z<1.0 (lg="" aranda,="" co-director),="" complutense="" de="" fernández="" madrid.<="" master="" román="" student="" td="" universidad=""></z<1.0>			
From Sep 2019	NCR method in broad and narrow band data from J-PLUS Raúl González Huelma, Master student (LG co-director), Universidad de Granada.			
From Dec 2018	The local environment of Type la supernovae with IFS Nataliya Ramos Chernenko, Master student (LG co-director), Universidad de Granada.			
Nov 18 - Jun 19	Type la supernova environments at high redshift Macarena García del Valle, Master student (LG co-director), Universidad Complutense de Madrid.			
Oct 18 - Sep 19	The imprint of hydrogen-rich core collapse supernovae from their parent populations Isaac Lozano Rey, Master student (LG director), Universitat Internacional de València (VIU).			
From Sep 2018	Comparing photometric and spectroscopic estimations of galactic parameters (paper in prep.) Jared Hand, PhD student, University of Pittsburgh.			
From Sep 2018	Searching for subluminous SNe Ia in SDSS-II/SNe survey (paper in prep.) Daniel Perrefort, PhD student, University of Pittsburgh.			
From Apr 2018	The first survey of SN remnants in IFS (paper in prep.) Héctor Martínez Rodríguez, PhD student, University of Pittsburgh.			
May 17 - Jan 19	Single stelar population fitting combining optical spectroscopy and UV imaging Meghan Cliento, undergraduate student, University of Pittsburgh.			
Sep 16 - Sep 17	HII region statistics in PISCO (See selected refereed papers #35). Nicolette M. Kier, undergraduate student, University of Pittsburgh.			
Sep 16 - Jun 17	Supernova rates in nearby galaxies (paper in prep.) Asier Castrillo, Master student (LG co-Director), Universidad Autónoma de Madrid (UAM).			
Sep 16 - Mar 17	Statistical study of SN Ia 91bg-like. (See selected refereed papers #50). Yiwen Huang, undergraduate student, Carnegie Mellon University.			
Abr-Jul 2016	Radial migration within spiral galaxies (See selected refereed papers #21). Laura Sánchez-Menguiano, PhD student, Universidad de Granada. Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2015".			
Mar-Jul 2016	SN observing cadence optimization for cosmology Javier Silva, undergraduate student, Universidad de Chile.			
Mar 2016	Elemental abundances of int-z SN host galaxies (See <i>selected refereed papers</i> #34). Manuel Emilio Moreno-Raya, PhD student, Universidad Complutense de Madrid.			
Jan-Sep 2016	Measuring CO at SN locations with CARMA (See selected refereed papers #24)			

Luis Mora, undergraduate student, Universidad de Chile.

Jan 2016 SN rates from CALIFA IFS data

Ignacio Andrés Sanchez Barraza, undergraduate student, Universidad de Chile.

- From Jun 2015 SN la extinction studies from their LC and IFS of their host galaxies Alessandro Razza, PhD student, Universidad de Chile.
 - Jan-Jul 2015 **Type II multiwavelength light-curve characterization** (See *selected refereed papers* #14) Tania Moraga, undergraduate student, Universidad de Chile.
- Aug-Nov 2014 **Elemental abundances of low-z SN host galaxies** (See *selected refereed papers* #13, #18). Manuel Emilio Moreno-Raya, PhD student, Universidad Complutense de Madrid. Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2013".
- Jul-Des 2014 Supernova Remnants and Supernova Remnant dominated regions in CALIFA galaxies Astor Sandoval, undergraduate student, Universidad de Chile.
- Feb-Jul 2014 SNe Ia host galaxy properties as a function of the distance to host galaxy Ismael Pessa, undergraduate student, Universidad de Chile.

Publication list

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

- 51. The 50-100 pc scale parent stellar populations of SNII and limitations of single star evolution models. P. Schady, J.J. Eldridge, J. Anderson, T.-W. Chen, L. Galbany, et al. MNRAS, accepted, arXiv:1907.12260.
- 50. On the Ca-strong 1991bg-like type la supernova 2016hnk: evidence for a Chandrasekhar-mass explosion. L. Galbany, C. Ashall, P. Hoeflich, S. González-Gaitán, et al. A&A, accepted, arXiv:1904.10034.
- 49. The extraplanar type II supernova ASASSN-14jb in the ESO 467-G051 galaxy. N. Meza, J. L. Prieto, A. Clocchiatti, L. Galbany, et al. A&A, arXiv:1811.11771.
- 48. Superluminous Supernovae from the Dark Energy Survey.

 C. Angus, M. Smith, M. Sullivan, C. Inserra, P. Wiseman, ...(with) L. Galbany, et al. MNRAS, 487:2215 (2019), arXiv:1812.04071.
- 47. Models and Sim. for the Photometric LSST Astronomical Time Series Classification Challenge (PLAsTiCC) R. Kessler, G. Narayan, A. Avelino, E. Bachelet, R. Biswas, ...(with) L. Galbany, et al. PASP, accepted, arXiv:1903.11756.
- 46. On the nature of the unusual transient AT 2018cow from Hi observations of its host galaxy M. J. Michałowski, P. Kamphuis, J. Hjorth, D. A. Kann, A. de Ugarte Postigo, L. Galbany, et al. A&A, accepted.
- 45. Accounting for the uncertainties in gas kinematics arising from stellar continuum subtraction in MUSE IFS. E. Bellocchi, Y. Ascasibar, L. Galbany, H. Ibarra-Medel, M. Gavilán, Á. Díaz A&A, 625:A83 (2019), arXiv:1903.06252.
- 44. Emission-line diagnostics of CCSN host HII regions including massive binary population Lin Xiao, L. Galbany, J.J. Eldridge, and Elizabeth R. Stanway. MNRAS, 482:384 (2019), arXiv:1805.01213.
- 43. Unravelling the infrared transient VVV-WIT-06: the case for an origin in a classical nova D.P.K. Banerjee, E. Y. Hsiao, T. Diamond, L. Galbany, et al. APJ, 867:99 (2018), arXiv:1809.06801.
- 42. Thermonuclear supernovae and cosmology I. Dominguez, L. Galbany. EPJP, 133:323 (2018).
- 41. Serendipitous discovery of a strong-lensed galaxy in integral field spectroscopy from MUSE.

 L. Galbany, T. E. Collett, J. Méndez-Abreu, S. F. Sánchez, J. P. Anderson. MNRAS, 479:262 (2018), arXiv:1803.09277G.
- 40. The SELGIFS data challenge: generating synth. obs. of CALIFA galaxies from hydrodynamical simulations G. Guidi, J. Casado, Y. Ascasibar, R. García-Benito, L. Galbany, et al. MNRAS, 479:917 (2018), arXiv:1610.07620.
- 39. No surviving companion in Kepler's supernova.
 P. Ruiz-Lapuente, F. Damiani, L. R. Bedin, J. I. Gonzalez Hernandez, L. Galbany, et al., APJ, 862:124 (2018), arXiv:1711.00876.
- 38. SN 2016esw: a bright Type II supernova observed a few hours after the explosion T. de Jaeger, L. Galbany, C. P. Gutiérrez, A. V. Filippenko, W. Zheng, et al., MNRAS, 478:3776 (2018), arXiv:1805.03205.
- 37. The lowest metallicity type II supernova from the highest mass red-supergiant progenitor J. P. Anderson, L. Dessart, C. P. Gutiérrez, T. Krühler, L. Galbany, et al., NATURE ASTRONOMY, 2:574 (2018), arXiv:1805.04434.
- 36. Observed Type II supernova colours from the Carnegie Supernova Project-I T. de Jaeger, J. P. Anderson, L. Galbany, et al., MNRAS, 476:4592 (2018), arXiv:1802.07254.

- 35. PISCO: The PMAS/Ppak Integral field supernova hosts compilation

 L. Galbany, J. P. Anderson, S. F. Sánchez, H. Kuncarayakti, S. Pedraz, et al., APJ, 855:107 (2018), arXiv:1802.01589.
- 34. Elemental gas-phase abundances of intermediate redshift type la supernova star-forming host galaxies M. E Moreno-Raya, L. Galbany, A. R. López-Sánchez, M. Mollá, et al., MNRAS, 476:307 (2018), arXiv:1801.06547.
- 33. Studying the ultraviolet spectrum of the first spectroscopically confirmed SN at z=2. M. Smith, M. Sullivan, R. C. Nichol, L. Galbany, et al., APJ, 854:37 (2018), arXiv:1712.04535.
- 32. Constraints on core-collapse supernova progenitors from explosion site integral field spectroscopy H. Kuncarayakti, J. P. Anderson, L. Galbany, K. Maeda, M. Hamuy, et al. A&A, 613:35 (2018), arXiv:1711.05765.
- 31. The shape of O abundance profiles explored with MUSE: evidence for widespread deviations from single gradients L. Sánchez-Menguiano, S. F. Sánchez, I. Pérez, T. Ruiz-Lara, L. Galbany, et al. A&A. 609:A119 (2018), arXiv:1710.01188.
- 30. Investigating the diversity of SNe lax: A MUSE and NOT spectroscopic study of their environments J. D. Lyman, F. Taddia, M. D. Stritzinger, L. Galbany, G. Leloudas, et al. MNRAS, 473:1359 (2018), arXiv:1707.042708.
- 29. Serendipitous discovery of an optical emission line jet in NGC 232 C. Lopez-Cobá, S. F. Sánchez, I. Cruz-González, L. Binette, L. Galbany, et al. APJL, 850:L17 (2017), arXiv:1711.02785.
- 28. Type II SN spectral diversity II: spectroscopic and photometric correlations C. P. Gutiérrez, J. P. Anderson, M. Hamuy, S. González-Gaitán, L. Galbany, et al. APJ, 850:90 (2017), arXiv:1709.02799.
- 27. SN 2016jhj at redshift 0.34: extending the SN II Hubble diagram using the standard candle method T. de Jaeger, L. Galbany, A. Filippenko, S. González-Gaitán, et al. MNRAS, 472:4233 (2017), arXiv:1709.01513.
- 26. DES15E2mlf: A Spectroscopically Confirmed Superluminous SN that Exploded 3.5 Gyr After the Big Bang Y.-C. Pan, R. J. Foley, M. Smith, L. Galbany, C. B. D'Andrea, et al. MNRAS, 470:4241 (2017), arXiv:1702.05430.
- 25. Hot gas around SN 1998bw. The progenitor inferred through its environment T. Krühler, H. Kuncarayakti, P. Schady, J. Anderson, L. Galbany, J. Gensior. A&A, 602:A85 (2017), arXiv:1702.05430.
- Molecular gas at supernova local environments unveiled by EDGE
 L. Galbany, L. Mora, S. González-Gaitán, A. Bolatto, H. Dannerbauer, et al. MNRAS, 468 628 (2017), arXiv:1702.02945.
- 23. A type II supernova Hubble diagram from the CSP, SDSS-II nd SNLS surveys.

 T. de Jeager, S. González-Gaitán, M. Hamuy, L. Galbany, J. P. Anderson, et al. APJ, 835:166 (2017), arXiv:1612.05636.
- 22. MUSE Reveals a Recent Merger in the Post-starburst Host Galaxy of the TDE ASASSN-14li.

 J. L. Prieto, T. Krühler, J. P. Anderson, L. Galbany, C. S. Kochanek, et al. APJL, 830:32 (2016), arXiv:1609.00013.
- 21. Evidence of ongoing radial migration in NGC 6754: Azimutal variations of the gas properties.

 L. Sánchez-Menguiano, S. F. Sánchez, D. Kawata, ... (with) L. Galbany, et al. APJL, 830:40 (2016), arXiv:1603.04748.
- 20. Unresolved versus resolved: calibrating young SSP models with VLT/MUSE observation of NGC 3603. H. Kuncarayakti, L. Galbany, J. P. Anderson, T. Krühler, M. Hamuy. A&A, 593:A78 (2016) arXiv:1607.03446.
- 19. CALIFA, the Calar Alto Legacy Integral Field Area survey IV. Third Public data release. S. F. Sánchez, R. García-Benito, S. Zibetti, C. J. Walcher, ...(with) L. Galbany, et al. A&A, 594:A36 (2016) arXiv:1604.02289.
- 18. Using the local gas-phase oxygen abundances to explore a metallicity-dependence in SNe la luminosities M.E. Moreno-Raya, Á.R. López-Sánchez, M. Mollá, L. Galbany, et al. MNRAS, 462:1281 (2016), arXiv:1607.05526.
- 17. Nearby supernova host galaxies from the CALIFA Survey: II. SN environmental metallicity L. Galbany, V. Stanishev, A. M. Mourão, M. Rodrigues, H. Flores, et al. A&A, 591:48 (2016), arXiv:1603.07808.
- 16. Evolving into a remnant: optical spectroscopy of SN 1978K at thirty-six years
 H. Kuncarayakti, K. Maeda, J. P. Anderson, M. Hamuy, K. Nomoto, L. Galbany MNRAS, 458:2063 (2016), arXiv:1512.02108.
- 15. Type II supernovae as probes of environment metallicity: observations of host HII regions J. P. Anderson, C. P. Gutiérrez, L. Dessart, M. Hamuy, L. Galbany, et al. A&A, 589:A110 (2016) arXiv:1602.00011
- UBVRIz light curves of 51 type II supernovae
 L. Galbany, M. Hamuy, M. M. Phillips, N. B. Suntzeff, J. Maza, et al. AJ, 151:33 (2016), arXiv:1511.08402
- 13. On the dependence of the type la SNe luminosities on the metallicity of their host galaxies M. E. Moreno-Raya, M. Mollá, Á . R. López-Sánchez, L. Galbany, et al. APJL, 818:L19 (2016), arXiv:1511.05348
- 12. SN 2014J at M82: I. A middle-class type la supernova by all spectroscopic metrics L. Galbany, M. E. Moreno-Raya, P. Ruiz-Lapuente, J. I. González-Hernández, et al. MNRAS, 457:525 (2016), arXiv:1510.06596.
- Characterising the environments of supernovae with MUSE
 L. Galbany, J. P. Anderson, F. F. Rosales-Ortega, H. Kuncarayakti, et al. MNRAS, 455:4087 (2016), arXiv:1511.01495

- 10. A Hubble diagram from type II supernovae based solely on photometry: The photometric-colour method T. de Jaeger, S. González-Gaitán, J. P. Anderson, L. Galbany, M. Hamuy, et al. APJ, 815:121 (2015), arXiv:1511.05145
- 9. The rise-time of Type II supernovae S. González-Gaitán, N. Tominaga, J. Molina, L. Galbany, F. Bufano, et al. MNRAS, 451: 2212 (2015), arXiv:1505.02988
- 8. Statistical studies of supernova environments
 J. P. Anderson, P. A. James, S. M. Habergham, L. Galbany, and H. Kuncarayakti. PASA, 32:e019 (2015), arXiv:1504.04043
- 7. 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.
- CALIFA, the Calar Alto Legacy Integral Field Area survey. III. Second public data release
 R. García-Benito, S. Zibetti, S.F. Sánchez, B. Huseman, ...(with) L. Galbany, et al. A&A, 576:135 (2015), arXiv:1409.8302
- 5. 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 la Supernovae. C. M. McClelland, P. M. Garnavich, L. Galbany, R. Miquel, R. J. Foley, et al. APJ, 720:704-716 (2010), arXiv:1007.2850

Other refereed papers

- 114. CSP-II. Early observations and progenitor constraints of the Type Ib SN LSQ13abf $_{\rm M.\ D.\ Stritzinger,\ et\ al.\ }A\&A$, accepted.
- 113. J-PLUS: Impact of bars on quenching timescales in nearby green valley disc galaxies $_{\rm J.~P.~Nogueira-Cavalcante,~et~al.}$ A&A, accepted.
- 112. Clearing the Smoke: Nebular Spectra of 100+ Type Ia Supernovae Exclude Single Degenerate Progenitors M. A. Tucker, et al. MNRAS, accepted.
- 111. The CALIFA view on stellar angular momentum across the Hubble sequence. J. Falcón-Barroso, et al. A&A, accepted.
- 110. SN 2017gmr: An energetic Type II-P supernova with asymmetries. $_{\rm J.~E.~Andrews,~et~al.}$ APJ, accepted, arXiv:1907.01013.
- 109. PLAsTiCC: Selection of a performance metric for classification probabilities balancing diverse science goals A.Malz et al. AJ, accepted, arXiv:1809.11145.
- 108. SDSS-IV MaStar A Large and Comprehensive Empirical Stellar Spectral Library. R. Yan, et al. APJ, accepted.
- 107. HSC16aayt: Slowly evolving interacting transient rising for more than 100 days $_{\rm T.\ Moriya,\ et\ al.}$ APJ, accepted, arXiv:1907.01633.
- 106. ASASSN-15pz: Revealing Significant Photometric Diversity Among 2009dc-like, Peculiar Type Ia Supernovae P. Chen, et al. APJ, accepted, arXiv:1904.03198.
- 105. A Physical Basis for the H-band Blue-edge vel. and LC Shape Correlation in Context of SNIa Explosion Physics C. Ashall, et al. APJ, 878:86 (2019), arXiv:1904.01633.
- 104. Nebular $H\alpha$ Limits for Fast Declining Type Ia Supernovae D. Sand, et al. APJL, 877:L4 (2019), arXiv:1903.03626.
- 103. First cosmology results using SNIa from the DES: Measurement of the Hubble constant. E. Macaulay, et al. MNRAS, 486:2184 (2019), arXiv:1811.02376.
- 102. CSPII: Using NIR Spectroscopy to determine the outer ⁵⁶Ni distribution in SNIa as a test for explosion scenarios. C. Ashall, et al. APJL, 875:L14 (2019), arXiv:1902.10088.
- 101. The type IIP supernova 2017eaw: from explosion to the nebular phase T. Szalai, et al. APJ, 876:19 (2019), arXiv:1903.09048.
- 100. Cosmological constraints from multiple probes in the Dark Energy Survey. T. Abbott, et al. PHRvL, 122:171301 (2019), arXiv:1811.02375.

- 99. ASASSN-15oz: Evidence of Circumstellar Interaction in a Type IIL Supernova. K. Azalee Bostroem, et al. MNRAS, 485:5120 (2019), arXiv:1901.09962.
- 98. First release of the high-z SLSNe from the Subaru high-z SN campaign (SHIZUCA). II. Spectroscopic properties. C. Curtin, et al., APJS, 241:17 (2019), arXiv:1801.08241.
- 97. First release of the high-z SLSNe from the Subaru high-z SN campaign (SHIZUCA). I. Photometric properties T. J. Moriya, et al., APJS, 241:16 (2019), arXiv:1801.08240.
- 96. First cosmology results using SNIa from the DES: Photometric pipeline and light curve release. D. Brout, et al. APJ, 874:106 (2019), arXiv:1811.02378.
- 95. First cosmology results using SNIa from the DES: Analysis, systematic uncertainties, and validation. D. Brout, et al. APJ, 874:50 (2019), arXiv:1811.02377.
- 94. First cosmology results using SNIa from the DES: Constraints on cosmological parameters. T. Abbott, et al. APJL, 872:L30 (2019), arXiv:1811.02374.
- 93. J-PLUS: measuring $H\alpha$ emission line fluxes in the nearby universe R. García-Logroño, et al., A&A, 622:A180 (2019), arXiv:1804.04039.
- 92. J-PLUS: Morphological star/galaxy classification by PDF analysis C. López-Sanjuan, et al., A&A, 622:A177 (2019), arXiv:1804.02673.
- 91. Investigating the properties of stripped-envelope supernovae; what are the implications for their progenitors? S. Prentice et al. MNRAS, 485:1559 (2019), arXiv:1812.03716.
- 90. The Fifteenth Data Release of the SDSS: 1st Release of MaNGA-derived Quantities, Vis. Tools, and Stel. Lib. D. S. Aguado, et al. APJS, 240:23 (2019), arXiv:1812.02759.
- 89. J-PLUS: The Javalambre Photometric Local Universe Survey. J. Cenarro, et al., A&A, 622:A176 (2019), arXiv:1804.02667.
- 88. Spatial field reconstruction with INLA: Application to IFU galaxy data. S. González-Gaitán, et al. MNRAS, 482:3880 (2019), arXiv:1802.06280.
- 87. Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program Eric Y. Hsiao, et al. PASP, 131:014002 (2019), arXiv:1810.08213.
- 86. Phot. and spec. properties of SN Ia 2018oh with early excess emission from the Kepler 2 observations W. Li et al. APJ, 870:12 (2019), arXiv:1811.10056.
- 85. Carnegie Supernova Project-II: Extending the NIR Hubble Diagram for Type Ia Supernovae to z \sim 0.1 Mark M. Philllips, et al. PASP, 131:014001 (2019), arXiv:1810.09252.
- 84. Systematic study of outflows in the Local Universe using CALIFA: I. Sample selection and main properties. C. López-Cobá et al. MNRAS, 482:4032 (2018), arXiv:1811.01253.
- 83. A Virgo Env. Survey Tracing Ionised Gas Emission (VESTIGE).IV. Tails of Ionised Gas in the MR NGC 4424.

 A. Boselli et al. A&A, 620:A164 (2018), arXiv:1810.09234.
- 82. SN 2017ens: The metamorphosis.of a bright broad-lined type Ic supernova to a type IIn $_{\rm T.-W.~Chen~et~al.}$ APJL, 867:L31 (2018), arXiv:1808.04382.
- 81. A nearby superluminous supernova with a long pre-maximum 'plateau' and strong CII features J.P. Anderson et al. A&A, 629:A67 (2018), arXiv:1806.10609.
- 80. The High Cadence Transient Survey (HiTS) IV. Compilation and characterization of light-curve catalogs J. Martínez, et al., AJ, 156:186 (2018), arXiv:1809.00763.
- 79. K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova. G. Dimitriadis, et al., APJL, 870:L1 (2018), arXiv:1811.10061.
- 78. Relativistic supernova 2009bb exploded close to an atomic gas cloud. Michal J. Michalowski, et al., A&A, 618:A104 (2018), arXiv:1808.00977.
- 77. The Data Release of the Sloan Digital Sky Survey-II Supernova Survey. M. Sako, et al. PASP, 130:064002 (2018), arXiv:1401.3317.
- 76. Type II supernovae in low luminosity host galaxies.

 C. Gutiérrez, et al., and MNRAS, 479:3232 (2018), arXiv:1806.03855.
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- 65. Multi-messenger Observations of a Binary Neutron Star Merger B. P. Abbott, et al., APJL, 848:2 (2017), arXiv:1710.05833.
- 64. A kilonova as the electromagnetic counterpart to a gravitational-wave source S. Smartt, et al., NATURE, 551:75 (2017), arXiv:1710.05841.
- 63. Type II SN spectral diversity I: Observations, sample characterization and spectral line evolution C. P. Gutiérrez, et al.,, APJ, 850:89 (2017), arXiv:1709.02487.
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- 56. The Mass-Metallicity Relation revisited with CALIFA S.F. Sánchez, et al., MNRAS, 469:2121 (2017), arXiv:1703.09769.
- 55. Resolving the age bimodality of galaxy stellar populations on kpc scales s. Zibetti, et al. MNRAS, 468:1902 (2017), arXiv:1701.06570.
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- 4. Mass-Metallicity relation explored with CALIFA. I. Is there a dependence on the star-formation rate?. S. F. Sánchez, et al., A&A, 554:A58 (2013), arXiv:1304.2158.
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 L. Galbany, THE INTERPLAY BETWEEN LOCAL AND GLOBAL PROCESSES IN GALAXIES, MEXICO, 2016.
- 7. Constraining SN progenitors: An IFS survey of the explosion sites
 H. Kuncarayakti, et al., ASIA-PACIFIC REGIONAL IAU MEETING (APRIM) 2014, arXiv:1410.8739
- Principal Component Analysis of type II SN light-curves
 L. Galbany, STATISTICAL CHALLENGES OF 21ST CENTURY COSMOLOGY, IAU306 (2014)
- 5. Properties of type la supernovae inside rich galaxy clusters
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 L. Galbany, LATIN AMERICAN REGIONAL IAU MEETING (LARIM) 2013., RMxAC, 44, 42 (2014)
- 3. Using the environment to understand supernova properties

 L. Galbany, et al., SUPERNOVA ENVIRONMENTAL IMPACTS, IAU296 (2014)
- 2. Searching the footprint of the SN progenitors in the environment L. Galbany, MASSIVE STARS: FROM α TO Ω , 150 (2013)
- Spectroscopy of Sloan Digital Sky Survey II Supernovae Host Galaxies
 M. Olmstead, et al., AMERICAN ASTRONOMICAL SOCIETY, 222 118.03 (2013)

Thesis

2. Supernova studies in the SDSS-II/SNe Survey: spectroscopy of the peculiar SN 2007qd, and photometric properties of Type-la 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

- Oct 2019 Seminar: A SN in the borough: integral field spectroscopy of SN hosts, UNAM México.
- Oct 2019 (Contributed): IFS follow up of CSP SNIa host galaxies, Carnegie Obs, Passadena.
- Sep 2019 (Contributed): Dones and ToDos in IFS surveys of SN hosts, U. de Southampton, UK.
- Sep 2019 Seminar: Constraining progenitors with integral field spectroscopy, U. de Granada.
- Sep 2019 Seminar: Surveys of integral field spectroscopy of SN hosts, Florida State University, Tallahassee, FL.

- Aug 2019 Invited talk: Progenitors of Type Ia supernovae conference, Lijiang, Yunnan, China.
- Jul 2019 (Contributed): Analyzing Integral field spectroscopy data workshop, Lisbon, Portugal.
- Feb 2019 (Contributed) A 1991bg-like SNIa 2016hnk, Carnegie SN Project meeting, Saint George Island, FL.
- Dec 2018 (Contributed) Testing WFIRST simulations with SNEMO, Lawrence Berkeley National Lab, CA.
- Nov 2018 Seminar: SN la local environments with IFS, University of Pennsylvania, Philadelphia PA.
- Nov 2018 Seminar: SN 2016hnk, a Ca-rich 91bg-like SN Ia with a light echo, ESO, Santiago, Chile.
- Nov 2018 (Contributed) The local environment of type Ia SNe as seen with IFS, Bariloche, Argentina.
- Jul 2018 (Contributed) A Ca-rich faint 91bg-like type Ia SN, Institute for Astrophysics, Honolulu HI.
- Jul 2018 (Contributed) CSP SN Ia environments with IFS. Carnegie SN Project meeting, IfA, Honolulu HI.
- Jul 2018 (Contributed) A Ca-rich faint 91bg-like type la SN, Lorentz center, Leiden.
- Jun 2018 Seminar: Inferring SN progenitor properties with J-PLUS, CEFCA, Teruel.
- Jun 2018 Seminar: Using the environment to infer SN progenitor properties, U. Zaragoza.
- Jun 2018 Seminar: Using the environment to infer SN progenitor properties, U. Barcelona.
- Jun 2018 Seminar: The Pmas/ppak Integral-field SN hosts COmpilation (PISCO), IAA Granada.
- Jun 2018 Seminar: Using the environment to infer SN progenitor properties, U. Autònoma de Barcelona.
- Dec 2017 Seminar: The Pmas/ppak Integral-field SN hosts COmpilation (PISCO), CfA Harvard MA.
- Oct 2017 (Contributed) The local environment of type Ia SNe as seen with IFS, Carnegie Observatories, Pasadena.
- Mar 2017 Seminar: The All-weather MUse SN Integral field Nearby Galaxies survey, U. Oulu, Finland.
- Mar 2017 Seminar: PISCO and AMUSING: IFS of SN environments, University of Turku, Finland.
- Feb 2017 Seminar: Integral field spectroscopy of SN environments, University of Toronto, Canada.
- Feb 2017 Seminar: What's there? Integral field spectroscopy to study SN environments, U. Pittsburgh PA.
- Nov 2016 Invited talk: The All-weather MUse AN Integral field Nearby Galaxies survey, IFS school UAM, Madrid.
- Nov 2016 Invited talk: SN remnant dominated regions and SN rates with IFS, IFS school UAM, Madrid.
- Nov 2016 (Contributed) Spectrophot. SNII template: A SiFTO fitter for SNeII. LSST SN workshop, Pittsburgh.
- Aug 2016 (Contributed) *SN environmental studies through IFS*. Supernovae through the ages: understanding the past to prepare for the future, Easter Island, Chile.
- Jul 2016 (Contributed) Supernova environmental studies through Integral Field Spectroscopy. XII Reunión Sociedad Española de Astronomía (SEA) 2016, Bilbo, Spain.
- Jul 2016 (Contributed) The All-weather MUse Supernova Integral field Nearby Galaxies (AMUSING) survey. European Week of Astronomy and Space Science (EWASS) 2016, Athens, Greece.
- Jun 2016 (Contributed) Standardization of type II supernova light-curves with statistical methods. Meeting on Fundamental Cosmology, Barcelona.
- Jun 2016 Seminar: *Environmental studies of SNe.* Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid, Spain.
- May 2016 (Contributed) Statistical methods in SN II light-curves. South American Supernovae 2016, La Plata, Argentina.
- Mar 2016 (Contributed) *The local environment of SNe as seen with IFS*. Chilean Astronomical Society (SOCHIAS) meeting 2016, Antofagasta, Chile.
- Jun 2015 (Contributed) Nearby supernova host galaxies from the CALIFA survey. European Week of Astronomy and Space Science (EWASS) 2015, La Laguna, Spain.
- Jun 2015 (Contributed) The local environment of SNe., IX PESSTO meeting, Paris, France.
- May 2015 Seminar: Characterizing SN host galaxies with IFS. European Southern Observatory (ESO), Santiago, Chile.
- Apr 2015 (Contributed) PCA of type II SN light-curves. South American Supernovae 2015, Santiago, Chile.
- Apr 2015 (Contributed) SN studies with IFS: the CALIFA contribution. CALIFA Busy Week, Firenze, Italy.
- Sep 2014 Seminar: Characterizing SN host galaxies with IFS. Universidad de Guanajuato, Mexico.
- Aug 2014 Invited talk: What can IFS shine on SN progenitors. Invited tutorial: Studying SN environments with IFS. Guillermo Haro Advanced School on IFS Techniques and Analysis, INAOE, Puebla, Mexico.
- May 2014 Seminar: *Integral Field Spectroscopy of nearby supernova host galaxies*.. Institut d'Estudis Espacials de Catalunya, Universitat Autònoma de Barcelona.

- Nov 2013 (Contributed) Studying SNe environment with CALIFA Survey. LARIM: XIV Latin American Regional IAU Meeting, Florianópolis, Brasil.
- Jul 2013 (Contributed) Integral Field Unit spectroscopy of supernova host galaxies. XXIII Encontro Nacional de Astronomía e Astrofísica (ENAA), CAAUL Universidade de Lisboa, Portugal.
- Apr 2013 Seminar: IFU spectroscopy of SN host galaxies. Universidad de Chile, Santiago, Chile.
- Apr 2013 (Contributed) *IFU spectroscopy of SN host galaxies*. CALIFA 5th Busy Week, AIP An der Sternwarte, Potsdam, Germany.
- Jan 2013 Seminar: *Using the environment to understand SNe properties*. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid, Spain.
- Nov 2012 (Contributed) *Studying CCSNe environment with CALIFA Survey*. CALIFA 4th Busy Week, Instituto de Astronomía de Andalucía (IAA), Granada, Spain.
- Aug 2012 (Contributed) Type-la SNe standarization accounting for the environment. Modern Cosmology: Early Universe, CMB and LSS, Benasque Center for Science, Benasque, Spain.
- Oct 2010 (Contributed) *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.

Participation and responsibilities in international collaborations

	•
2018 - present	Member of the Electro-magnetic counterparts of GW at the VLT (ENGRAVE). MUSE instrument scientist (with J. Lyman).
2016 - present	Member of the J-PLUS collaboration. Leading the SN environments working group.
2016 - present	Full member of the LSST Dark Energy Science Collaboration (DESC). Serving in the Publication Board committee.
2016 - present	External collaborator of the Hyper Suprime Cam Survey (HSCS) for SNe II and SLSNe.
2016 - present	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.
2015 - present	External collaborator of the Dark Energy Survey (DES). Leading the SNII working group.
2015 - 2016	Member of the Chilean Scientific Coordination Committee for the LSST.
2013 - present	Member of Public ESO Spectroscopic Survey of Transient Objects (PESSTO \rightarrow ePESSTO+). Serving as the ePESSTO+ Ombudsperson, and in the Target And Alert (TAT) committee. PI of the <i>SN environments</i> and the <i>SNIa cosmology in the NIR</i> science groups.
2011 - 2017	Associate member of the Calar Alto Legacy Integral Field Area Survey (CALIFA). Responsible of the external ancillary data catalogues.

Major collaborators

Participant member of the Dark Energy Survey (DES)

J. P. Anderson (ESO, Chile), S. Gónzalez-Gaitán (CENTRA, Portugal), M. Phillips (Carnegie Obs.), E. Hsiao (FSU), S. F. Sánchez (UNAM, México), H. Kuncarayakti (U. Turku, Finland), F. Förster (CMM, U. Chile), I. Domínguez (UGR, Spain), M. Hamuy (DAS, U. Chile), C. Badenes (U. Pittsburgh), M. A. Pérez-Torres (IAA-CEFCA), M. Mollá (CIEMAT, Spain), A. R. López-Sánchez (Macquire U.), F. F. Rosales-Ortega (INAOE, México), Y. Ascasibar (UAM, Spain), J. M. Vílchez (IAA, Spain), V. Stanishev (U. Linkoping, Sweden), A. M. Mourão (IST, Lisbon), R. Miquel (IFAE-UAB, Spain).

External member of the Sloan Digital Sky Survey II - Supernova Survey (SDSS-II/SNe).

Observing experience

— As a Principal investigator (PI):

2008 - 2014

2006 - 2011

Cerro Paranal Observatory (CPO)

8.1m UT4 / MUSE 17A. 099.D-0022(

17A. 099.D-0022(A), 45 hours (Service mode; SM). 16B. 098.D-0115(A), 99 hours (SM).

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

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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).
                            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 / PMAS-Ppak
                                                        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).
         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
                                                        20A. 1900165, 47.52 hours (SM).
                                                        19B. 900154, 47.52 hours (SM).
                                                        19A. 1800146, 46.9 hours (SM).
                    Apache Point Observatory (APO)
                                                        17B. MaNGA Ancillary program, 30 objects (SM).
                          2.5m SDSS telescope / BOSS
— As a co-principal investigator (co-PI), or co-investigator (col) but involved in observations:
              CAHA / 2.2m CAHA Telescope / CAFOS
                                                        20A. F20-2.2-023, 5 nights. PI: Morales.
                            CPO / 8.1m UT4 / MUSE
                                                        19B. 104.D-0503(A)-(B), 99 hours (SM). PI: Anderson.
                            CPO / 8.1m UT4 / MUSE
                                                        19A. 103.D-0440(A)-(B), 99 hours (SM). PI: Anderson.
                            CPO / 8.1m UT4 / MUSE
                                                        18B. 102.B-0628(A), 22 hours (SM). PI: López-Sánchez.
                            CPO / 8.1m UT4 / MUSE
                                                        18B. 102.D-0095(A), 99 hours (SM). PI: Anderson.
                            CPO / 8.1m UT4 / MUSE
                                                        18A. 101.D-0748(A), 99 hours (SM). PI: Kuncarayakti.
              CAHA / 2.2m CAHA Telescope / CAFOS
                                                        17B. H17-2.2-023, 10 nights. PI: Moreno-Raya.
                          GO / 8.2m G-South / GMOS
                                                        17B. CL-2017B-015, 12 hours (SM). PI: Olivares
                            CPO / 8.1m UT4 / MUSE
                                                        17B. 100.D-0341(A), 99 hours (SM). PI: Kuncarayakti.
                   LCO / 6.5m Baade Telescope / FIRE
                                                        17A. CL-2017A-XXX, 1 night. PI: González-Gaitán.
    LCO / 6.5m Baade/Clay Telescopes / IMACS/LDSS3
                                                        17A. CL-2017B-046, 4 nights. PI: Förster.
                          GO / 8.2m G-South / GMOS
                                                        16B. CL-2016B-009, 14 hours (SM). PI: González-Gaitán
                 LCO / 6.5m Baade Telescope / IMACS
                                                        16A. CL-2016A-XXX, 1 night. PI: Kuncarayakti.
                 LCO / 6.5m Baade Telescope / IMACS
                                                        16A. CL-2016A-XXX, 0.5 nights. PI: Förster.
                            CPO / 8.1m UT4 / MUSE
                                                        16A. 097.D-0408(A), 99 hours (SM). PI: Anderson.
                            CPO / 8.1m UT4 / MUSE
                                                        15B. 096.D-0296(A), 99 hours (SM). PI: Anderson.
                   LCO / 6.5m Clay Telescope / LDSS3
                                                        15B. CL-2015B-XXX, 4 nights. PI: González-Gaitán.
             LSO / 3.5m NTT Telescope / EFOSC-SOFI
                                                        15B. —, 4 nights. PI: Smartt.
                            CPO / 8.1m UT4 / MUSE
                                                        15A. 095.D-0091(B), 99 hours (SM).
              CPO / 8.1m UT1 VLT Telescope / MUSE
                                                        15A. —, 4 nights. PI: Kuncarayakti.
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15A. —, 6 nights. PI: Förster.

14B. —, 22 hours. PI: Moreno-Raya.

CTIO / 4m Blanco Telescope / DECam

ORM / 10m GTC Telescope / OSIRIS

8.1m UT1 / KMOS

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

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LSO / 3.5m NTT Telescope / EFOSC-SOFI 14B. —, 4 nights. PI: Smartt.

LCO / 6.5m Baade Telescope / IMACS 14A. CL-2014A-XXX, 1 night. PI: Kuncarayakti. 14A. CL-2014A-XXX, 1 night. PI: Kuncarayakti. 14A. —, 5 nights. PI: Förster. 14A. —, 4 nights. PI: Moreno-Raya. 13A. —, 4 nights. PI: Sánchez. 0RM / 3.6m TNG Telescope / OSIRIS 07B. —, 2 nights. PI: Castander.
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Organisation of scientific meetings and seminar series

- Sep 2020 Organizer of the extended Public ESO Spectroscopic Survey of Transient Objects + (ePESSTO+) meeting, Granada, Sep 21st to 25th.
- 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 Calar Alto Observatory* workshop, Granada, Mar 12th & 13rd.
- Jan 2020 Organizer of the workshop *CRISPINHO: Correcting reddening intelligently for cosmological super-nova probes*, Granada, Jan 27th to 31st.
- Sep 2019 Organizer of the workshop *The future of SN host galaxies studies II*, Southampton, UK, Sep 23nd to 25th. (webpage).
- Jan 2019 Organizer of the workshop *The future of SN host galaxies studies*, Pittsburgh, USA, Jan 22nd to 24th. Funding: \$8,000 USD from the PITT-PACC research fund (PI: Galbany; webpage).
- Apr 2018 Organizer of the workshop "New advances in NIR SNIa science", Pittsburgh, USA, April 11th to 13th. Funding: \$10,000 USD from the PITT-PACC research fund (PI: Galbany; webpage).
- Mar 2018 Organizer of the workshop "SN II cosmology in the LSST", Pittsburgh, USA, March 5th to 9th. Funding: \$4,000 USD from the PITT-PACC research fund (PI: Galbany).
- 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 16th to 18th. Funding: \$19,750 USD from the LSST Enabling Science call (PI: Galbany; webpage).
 - Nov 2016 LOC member of the LSST Hack Week, Pittsburgh, US, November 7th to 11th (webpage).
 - Aug 2016 LOC member of the conference "Supernovae through the ages: understanding the past to prepare for the future", Easter Island, Chile, August 9th to 13th (webpage). 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 1st to 5th (webpage). 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).

Research visits

Oct 2019 Instituto de Astronomía, UNAM, Mexico City

Quality control pipeline for the AMUSING survey. Collaborator: Prof. Sebastián Sánchez.

Oct 2019 Carnegie Observatories, Pasadena

Preparation of the next stage of the Carnegie Supernova Project (CSP). Collaborator: Dr. Christopher Burns.

Jul 2019 Universidade de Lisboa, Portugal.

Correcting reddening intelligently for cosmological supernova probes (CRISP). Collaborator: Dr. Santiago González-Gaitán.

Nov 2018 European Southern Observatory (ESO), Chile.

Executive meeting for the AMUSING survey.

Collaborator: Dr. Joseph Anderson.

Oct 2018 University of Southampton, UK.

SN Ia environments with IFS.

Collaborators: Dr. Matthew Smith and Prof. Mark Sullivan.

May 2018 Macquaire University, AUS.

IFS observations with KOALA.

Collaborator: Dr. Ángel R. López-Sánchez.

Feb 2018 University of Berkeley, US.

Type II SN cosmology in the Dark Energy Survey.

Collaborator: Dr. Thomas de Jaeger.

Jun 2017 Centro Inv. Energéticas, Medioambientales y Tecnológicas (CIEMAT), SPAIN.

Intermediate redshift type la supernova host galaxies.

Collaborator: Dra. Mercedes Mollá

Mar 2017 University of Turku, FINLAND. Under the FINCA visitor program.

Integral Field Spectroscopy of SN host galaxies.

Collaborator: Dr. Hanindyo Kuncarayakti, Dr. Seppo Matila.

Feb 2017 University of Berkeley, US.

Type II supernova cosmology.

Collaborator: Dr. Thomas de Jaeger.

Jun 2016 Centro Inv. Energéticas, Medioambientales y Tecnológicas (CIEMAT), SPAIN.

Metallicity dependence on SN Ia luminosity.

Collaborator: Dra. Mercedes Mollá

Feb 2016 University of Pittsburgh, US.

Type Ia supernova cosmology in the NIR.

Collaborators: Dr. Michael Wood-Vasey and Dr. Carles Badenes.

Jun 2015 Instituto de Astrofísica de Canarias, SPAIN.

Spectroscopic characterization of SN 2014J.

Collaborators: Dr. Jonay I. González

Jun 2014 University of Southampton & Institute of Cosmology and Gravitation, Portsmouth, UK.

Supernova science with DECam.

Collaborators: Dr. Francisco Förster, Dr. Mark Sullivan, Dr. Robert Nichol

Apr 2013 Departamento de Astronomía, Universidad de Chile, CHILE.

Core-collapse and type Ia SNe environmental studies.

Collaborators: Dr. Joseph Anderson

Jan 2013 Centro Inv. Energéticas, Medioambientales y Tecnológicas (CIEMAT), SPAIN.

Type Ia SN standardization accounting for host galaxy metallicity.

Collaborator: Dra. Mercedes Mollá

Feb 2007 Fermi National Laboratory (FNAL), US

Studies related to DES CCD characterization.

Supervisors: Dra. Brenna Flaugher and Dr. Juan Estrada

Press and outreach

	14/	11/2019	Outreach talk at	José Hurtado	Primary school.	Granada.	"What is a star?	"
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^{08/11/2019} Participation in "Semana de la Ciencia" at UGR. Speaker in Stand 5 "Stellar evolution" (Link).

^{23/06/2018 &}quot;Perfils", interview in the online newspaper Nació digital (in Catalan, Nació Digital).

^{20/06/2018} Interview in the La Xarxa television (in Catalan, Vallès Oriental TV).

^{30/05/2018 &#}x27;Career day' at the Environmental Charter School, outreach talk. Pittsburgh PA.

^{18/03/2016 &}quot;Supernovas, explosiones en el universo", outreach talk at the Colegio Su Santidad Juan XXIII, San Joaquín, Chile (in Spanish, Día de astronomia, CONICYT).

^{18/03/2016 &}quot;Supernovas, explosiones en el universo", outreach talk at the Colegio Malaquias Concha, La Granja, Chile (in Spanish, Día de astronomia, CONICYT).

^{01/12/2015 &}quot;Supernovas, explosiones estelares", outreach talk at the Liceo Bicentenario Zapallar high school, Curicó, Chile (in Spanish, http://www.astrofisica.cl/?p=4904).

^{30/11/2015 &}quot;Supernovas, explosiones estelares", outreach talk at the Liceo Complejo Educacional Javiera Carrera high school, Talca, Chile (in Spanish, http://www.astrofisica.cl/?p=4904)

^{13/04/2015 &}quot;Qué son los meteoritos?", outreach talk at the Pintacuentos primary school, Las Condes, Chile (in Spanish, http://www.astrofisica.cl/?p=4287).

- 03/02/2014 "Esclata la Supernova més propera a la Terra des de 1604", press article in the online newspaper Nació digital (in Catalan, Nació Digital).
- 10/02/2014 "Un granollerí que estudia l'Univers a Santiago de Xile", short interview for the La Xarxa television (in Catalan, Vallès Oriental TV).
- 28/12/2012 "Supernovas, la llave del lado oscuro del Universo", outreach talk at the llatargi Astronomical Association, Oñati, Spain (in Spanish, El Correo).

Languages

Catalan Native speaker
Spanish Native speaker
English CEFR B2.2.
Portuguese CEFR A2.

Astronomical society membership

2020 - present
 2019 - present
 2016 - present
 2015 - 2016
 International Astronomical Society (IAU)
 European Astronomical Society (EAS)
 Sociedad Española de Astronomía (SEA)
 Sociedad Chilena de Astronomía (SOCHIAS)

Other merits

Oct 2019 Reviewer for the Hubble Space Telescope Cycle 27 Mid-cycle proposals.

Reviewer for journals: ApJ & AJ (US), MNRAS (UK), Galaxies (Switzerland), RACCE (Colombia).

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 de Canarias (IAC).

Dec 2015 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).

2008 Radiological protection program at UTPR (UAB).