Lluís Galbany

Place of birth	Granollers (Barcelona)
Date of birth	1983 Nov 20
Father of	Bel (♀, 2010 Nov 1), Greta (♀, 2014 Jan 15), Lila (♀, 2017 Sep 7)
Contact	Pitt. Particle Physics, Astrophysics, and Cosmology Center (PITT PACC)
	Physics and Astronomy Department, University of Pittsburgh
	304 Allen Hall, 3941 O'Hara St, Pittsburgh PA 15260, USA
☎	+1 (412) 499 2961
✉	llgalbany@piit.edu
☞	https://lgalbany.github.io
ORCID	0000-0002-1296-6887

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. My first 2-year postdoctoral experience was in CENTRA/IST at Lisboa, under the supervision of Dr. Vallery Stanishev and Prof. Ana Mourão. Then, I got a 3-year FONDECYT postdoctoral fellowship to work with Prof. Mario Hamuy in the Astronomy Department of Universidad de Chile. I am currently a Postdoctoral Research Associate at the Department of Physics and Astronomy of the University of Pittsburgh, working with Dr. Michael Wood-Vasey.

So far, I have published 137 articles with more than 6200 citations and an h-index of 38 (ADS, Jan 16 2019). My work has been presented in international conferences giving in total 44 talks, including 22 invitations to deliver seminars at different institutions. I have been PI of 21 successful observational proposals in a competitive basis in the largest observatories around the world, and participated in other 25 observational campaigns. I have led analyses within major collaborations (SDSS-II/SNe, CALIFA, PESSTO, DES, HSC-SSP, MaNGA, AMUSING, J-PLUS, LSST, WFIRST), and I had the chance to mentor 9 undergraduate and 9 graduate students, including two funded 3-months research visits. I have always enjoyed scientific independence, conducting competitive research in enjoyable scientific environments, and have proved my potential to reach a position of professional maturity.

Education

Sep 2006 - Oct 2011	**Ph.D. in Physics**, Universitat 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: Dr. Ramon Miquel.
Sep 2006 - Apr 2008	**Master degree in Physics**, U. Autònoma de Barcelona. *Tests of DES Charge Coupled Devices.* Supervisors: Dr. 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.

Research activity

From Sep 2016	**Postdoctoral Research Associate.** Supervisor: Dr. W. Michael Wood-Vasey. University of Pittsburgh.
Oct 2013 - Aug 2016	**Postdoctoral FONDECYT fellow.** Supervisor: Dr. Mario Hamuy. Departamento de Astronomía, U. de Chile.
Nov 2011 - Sep 2013	**Postdoctoral researcher**. Supervisor: Dr. Vallery Stanishev. Centro Multidisciplinar de Astrofísica (CENTRA-IST).
Sep 2006 - Oct 2011	**Ph.D. student**. Supervisor: Dr. Ramon Miquel. Institut de Física d'Altes Energies (IFAE-UAB).

Fellowships and grants awarded

Jan 2019	SN host galaxies with IFS. Funding PITT-PACC: 8.000 USD.
Apr 2018	SNe Ia in the NIR workshop grant. Funding PITT-PACC: 10,000 USD.
Mar 2018	SNe II cosmology with the LSST workshop grant. Funding PITT-PACC: 4,000 USD.
Mar 2017	FINCA grant for visitor researcher program. Funding: 2,650 EUR.
Nov 2016	Workshop project selected in the *LSST Enabling science call*. Funding: 19,750 USD.
Nov 2013 - Oct 2016	FONDECYT Postdoctoral fellowship 2014. CONICYT - Chile.
Sep 2004 - Sep 2005	Mobility fellowship SENECA-SICUE program, Universidad de La Laguna, Tenerife.

Teaching activity

Nov 2016	**Invited professor** '2nd SELGIFS Advenced School on Integral-Field Spectrosocopic Data Analysis', UAM, Madrid, Spain.
Aug 2014	**Invited professor** 'Guillermo Haro Advanced School on Integral Field Spectroscopy 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.

Student supervision

From Dec 2018	**The local environment of Type Ia supernovae with IFS** Nataliya Ramos Chernenko, Master student (LG co-director), Universidad de Granada.
From Nov 2018	**Type Ia supernova environments at high redshift** Macarena García del Valle, Master student (LG co-director), Universidad Complutense de Madrid.
From Oct 2018	**The imprint of hidrogen-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** Jared Hand, PhD student, University of Pittsburgh.
From Apr 2018	**The first survey of SN remnants in IFS** 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.
May-Sep 2017	**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	**Supernova environments in J-PLUS** Nicolette M. Kier, undergraduate student, University of Pittsburgh.
Sep 16 - Mar 17	**Statistical study of SN Ia 91bg-like.** (*paper in prep.*) 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 *selected refereed papers* #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 Ia 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

44. 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, accepted, arXiv:1809.06801.

43. Emission-line diagnostics of CCSN host HII regions including massive binary population
Lin Xiao, **L. Galbany**, J.J. Eldridge, and Elizabeth R. Stanway. MNRAS, accepted, arXiv:1805.01213.

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 Ia 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 Iax: 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.

24. 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 Ia 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

14. 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 Ia 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 Ia 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.

11. 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.

6. 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-Ia 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

Other refereed papers

93. Investigating the properties of stripped-envelope supernovae; what are the implications for their progenitors?
S. Prentice et al. MNRAS, accepted.
92. The fifteenth data release of the Sloan Digital Sky Survey
S. Anderson, et al. ApJS. accepted.
91. J-PLUS: The Javalambre Photometric Local Universe Survey.
J. Cenarro, et al., A&A, accepted, arXiv:1804.02667.
90. Systematic study of outflows in the Local Universe using CALIFA: I. Sample selection and main properties.
C. López-Cobá et al. MNRAS, accepted.
89. 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, accepted, arXiv:1810.09234.
88. Spatial field reconstruction with INLA: Application to IFU galaxy data.
S. González-Gaitán, et al., MNRAS, accepted, arXiv:1802.06280.
87. SN 2017ens: The metamorphosis.of a bright broad-lined type Ic supernova to a type IIn
T.-W. Chen et al. ApJ Letters, accpeted.
86. Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program
Eric Y. Hsiao, et al. PASP, accepted, arXiv:1810.08213.
85. Phot. and spec. properties of SN Ia 2018oh with early excess emission from the Kepler 2 observations
W. Li et al. ApJ, accpeted.
84. Carnegie Supernova Project-II: Extending the NIR Hubble Diagram for Type Ia Supernovae to z $\sim$ 0.1
Mark M. Phillips, et al. PASP, accepted, arXiv:1810.09252.
83. A nearby superluminous supernova with a long pre-maximum 'plateau' and strong CII features
J.P. Anderson et al. A&A, accepted, arXiv:1806.10609.
82. The High Cadence Transient Survey (HiTS) - IV. Compilation and characterization of light-curve catalogs
J. Martínez, et al., ApJ, accepted, arXiv:1809.00763.
81. K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova.
G. Dimitriadis, et al., ApJ, accepted.
80. Relativistic supernova 2009bb exploded close to an atomic gas cloud.
Michal J. Michalowski, et al., A&A, accepted, arXiv:1808.00977.
79. The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.
M. Sako, et al. PASP, 130:064002 (2018), arXiv:1401.3317.
78. J-PLUS: measuring Hα emission line fluxes in the nearby universe
R. García-Logroño, et al., A&A, accepted, arXiv:1804.04039.
77. Type II supernovae in low luminosity host galaxies.
C. Gutiérrez, et al., and MNRAS, 479:3232 (2018), arXiv:1806.03855.
76. The delay of shock breakout due to circumstellar material seen in most Type II Supernovae
F. Förster, et al., Nature Astronomy, accepted, arXiv:1809.06379.
75. The type IIn supernova 2010bt: The explosion of a star in outburst.
N. Elias-Rosa, et al., ApJ, 860:68 (2018), arXiv:1805.02188.
74. J-PLUS: Morphological star/galaxy classification by PDF analysis
C. López-Sanjuan, et al., A&A, accepted, arXiv:1804.02673.
73. Using late-time spectra to constrain Type Ia supernova progenitor and explosion properties
K. Maguire, et al., MNRAS, 477:3567 (2018), arXiv:1803.10252.
72. Discovery of distant RR Lyrae stars in the Milky Way using DECam
G. Medina, et al., ApJ, 855:43 (2018), arXiv:1802.01581.
71. Asteroids in the High Cadence Transient Survey
J. Peña, et al., AJ, 155:135 (2018).
70. SN 2017dio: a type Ic SN exploding in a hydrogen-rich circumstellar medium
H. Kuncarayakti, et al., ApJL, 854:L14 (2018), arXiv:1712.00027

69. The twin SNe 2013K and 2013am: observed and physical properties of two slow, normal Type IIP events.
L. Tomasella, et al., MNRAS, 475:1937 (2017), arXiv:1712.03933

68. The early detection and follow-up of the highly obscured type II SN 2016ija/DLT16am
L. Tartaglia, et al., ApJ. 853:62 (2018), arXiv:1711.03940

67. The fourteenth data release of the Sloan Digital Sky Survey
B. Abolfathi, et al. ApJS. 235:42 (2018), arXiv:1707.09322.

66. Morpho-kinematic properties of S0 bulges in the CALIFA survey: Clues to the origin of S0 galaxies.
J. Méndez-Abreu, et al., A&A, 474:1307 (2017), arXiv:1710.09349.

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.

62. Serendipitous discovery of RR Lyrae stars in the Leo V ultra-faint galaxy
G. Medina, et al., ApJL, 845:10 (2017), arXiv:1708.00009.

61. Sloan Digital Sky Survey IV: Mapping the Milky Way, nearby galaxies and the distant Universe
M. R. Blanton, et al., AJ, 154:28 (2017), arXiv:1603.04748.

60. Observational evidences for radial migration in disc galaxies from CALIFA
T. Ruiz-Lara, et al., A&A, 604:A4 (2017), arXiv:1705.02120.

59. Arm and interarm abundance gradients in CALIFA spiral galaxies
L. Sánchez-Menguiano, et al.,, A&A, 603:A113 (2017), arXiv:1705.05733.

58. Toward the Dynamical Classification of Galaxies: PCA of SAURON and CALIFA circular velocity curves
V. Kalinova, et al., MNRAS, 469:2539 (2017), arXiv:1509.03352.

57. Complexity in the light curves and spectra of slow-evolving superluminous supernovae
C. Inserra, et al., MNRAS, 468:4642 (2017), arXiv:1701.00941.

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.

54. The spectral evolution of SLSN LSQ14mo and its interacting host galaxy system
T.-W. Chen, et al. A&A, 602:A9 (2017), arXiv:1611.09910.

53. The progenitor and early evolution of the type IIb SN 2016GKG
L. Tartaglia, et al., ApJ Letters, 836:L12 (2017), arXiv:1611.00419.

52. Star formation driven galactic winds in UGC 10043.
C. López-Cobá, et al., MNRAS, 467:4951 (2017), arXiv:1701.01695.

51. 2D Multi-component photometric decomposition of CALIFA galaxies.
J. Méndez-Abreu, et al., A&A, 598:32 (2017), arXiv:1610.05324.

50. Early observations of type Ia supernova SN2015F.
R. Cartier, et al., MNRAS, 464:4476 (2016), arXiv:1609.04465.

49. The High cadence Transient Survey (HiTS) I. Survey design and supernova shock breakout constraints.
F. Förster, et al., ApJ, 832:155 (2016), arXiv:1609.03567.

48. Stellar kinematics across the Hubble sequence in the CALIFA survey: general properties and aperture corrections.
J. Falcón-Barroso, et al. A&A, 597:A48 (2017), arXiv:1609.06446.

47. Pan-STARRS and PESSTO search for the optical counterpart to the LIGO gravitational wave source GW150914
S. J. Smartt, e al., MNRAS Letters, 462:4094 (2016), arXiv:1602.04156.

46. The dependence of oxygen and nitrogen abundances on stellar mass from the CALIFA survey.
E. Pérez-Montero, et al., A&A, 595:A62 (2016), arXiv:1608.04677.

45. Photoionization models of the CALIFA HII regions compatible with the direct method
C. Morisset, et al., A&A, 594:A37 (2016) arXiv:1606.01146.

44. IMF shape constraints from stellar populations and dynamics from CALIFA
M. Lyubenova, et al., MNRAS Letters, 463:3220 (2016), arXiv:1606.07448.

43. First survey of Wolf-Rayet star populations over the full extension of nearby galaxies observed with CALIFA
D. Miralles-Caballero, et al. A&A, 592:A105 (2016), arXiv:1605.03991.

42. Aperture effects on the oxygen abundance determinations from CALIFA data
J. Iglesias-Páramo, et al. ApJ, 826:71 (2016), arXiv:1605.03490.

41. Supernova 2014J at M82: II. Direct analysis of spectra obtained with IN and WH telescopes
P. Vallely, et al. MNRAS, 460:1614 (2016), arXiv:151202608.

40. SN 2015bn: a detailed multi-wavelength view of a nearby superluminous supernova
M. Nicholl, et al. ApJ, 826:39 (2016), arXiv:1603.04748.

39. Supplement: "Localization and broadband follow-up of the gravitational-wave transient GW150914"
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29. Spiral-like star-forming patterns in CALIFA early-type galaxies
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14. Improved cosmological constraints from a joint analysis of the SDSS-II and SNLS supernova samples.
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8. The N2 and O3N2 indicators revisited: improved calibrations based on CALIFA and T_e-based literature data.
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4. Mass-Metallicity relation explored with CALIFA. I. Is there a dependence on the star-formation rate?.
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13. The extraplanar type II supernova ASASSN-14jb in the ESO 467-G051 galaxy.
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12. ASASSN-15oz: Evidence of Circumstellar Interaction in a Type IIL Supernova.
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11. First cosmology results using SNIa from the DES: Photometric pipeline and light curve release.
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10. First cosmology results using SNIa from the DES: Analysis, systematic uncertainties, and validation.
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9. First cosmology results using SNIa from the DES: Measurement of the Hubble constant.
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8. Cosmological constraints from multiple probes in the DES.
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6. Accounting for the uncertainties in gas kinematics arising from stellar continuum subtraction in integral-field spectroscopy data observed with MUSE/VLT.
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5. The Photometric LSST Astronomical Time-series Classification Challenge (PLAsTiCC): Data set
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8. New approaches to SN studies using IFS
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7. Constraining SN progenitors: An IFS survey of the explosion sites
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6. Principal Component Analysis of type II SN light-curves
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5. Properties of type Ia supernovae inside rich galaxy clusters
H. S. Xavier, et al., Latin American Regional IAU Meeting (LARIM) 2013., RMxAC, 44,206 (2014)
4. Integral Field Spectroscopy of supernova host galaxies
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3. Using the environment to understand supernova properties
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Astronomical Communications

- CBET: 1128, 1137, 3858, 3860, 4051, 4062.
- ATEL: 5827, 5949, 5956, 6014, 6080, 6570, 6612, 6618, 6620, 6622, 6695, 6699, 6706, 6711, 6854, 6859, 6965, 6974, 7091, 7099, 7102, 7108, 7115, 7122, 7131, 7132, 7144, 7146, 7148, 7149, 7154, 7162, 7164, 7221, 7246, 7289, 7290, 7291, 7308, 7319, 7335, 7412, 7415, 7512, 8005, 8018, 8206, 8255, 8264, 8268, 8357, 8363, 8369, 8375, 8460, 8541, 8555, 8559, 8658, 8701, 8702, 8708, 8902, 8917, 9289, 9297, 9304, 9308, 9337, 9483, 9530, 9534, 9542, 9546, 9612, 9614, 9700, 9769, 9773, 9775, 9777, 9781, 9784, 9800, 10053, 10056, 10144, 10148, 10152, 10163, 10202, 10313, 10315, 10318, 10454, 10458, 10462, 10674, 10676, 10683, 10689, 10694,

10727, 10766, 10779, 10836, 10841, 10846, 10913, 11092, 11102, 11109, 11114, 11150, 11171, 11177, 11192, 11319, 11320, 11329, 11474, 11476, 11477, 11480, 11485, 11519, 11524, 11655, 11657, 11659, 11662, 11667, 11669, 11671, 11965, 11967, 11969, 11973, 12001, 12002, 12006, 12075, 12276, 12280, 12282, 12342, 12347, 12362.

Thesis

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

Dec 2018	Contributed talk: *Testing WFIRST simulations with SNEMO*, Lawrence Berkeley National Lab, CA.
Nov 2018	Invited seminar: *SN Ia local environments with IFS*, University of Pennsylvania, Philadelphia PA.
Nov 2018	Invited seminar: *SN 2016hnk, a Ca-rich 91bg-like SN Ia with a light echo*, ESO, Santiago, Chile.
Nov 2018	Contributed talk: *The local environment of type Ia SNe as seen with IFS*, Bariloche, Argentina.
Jul 2018	Contributed talk: *A Ca-rich faint 91bg-like type Ia SN*, Institute for Astrophysics, Honolulu HI.
Jul 2018	Contributed talk: *CSP SN Ia environments with IFS*. Carnegie SN Project meeting, IfA, Honolulu HI.
Jul 2018	Contributed talk: *A Ca-rich faint 91bg-like type Ia SN*, Lorentz center, Leiden.
Jun 2018	Invited seminar: *Inferring SN progenitor properties with J-PLUS*, CEFCA, Teruel.
Jun 2018	Invited seminar: *Using the environment to infer SN progenitor properties*, U. Zaragoza.
Jun 2018	Invited seminar: *Using the environment to infer SN progenitor properties*, U. Barcelona.
Jun 2018	Invited seminar: *The Pmas/ppak Integral-field SN hosts COmpilation (PISCO)*, IAA Granada.
Jun 2018	Invited seminar: *Using the environment to infer SN progenitor properties*, U. Autònoma de Barcelona.
Dec 2017	Invited seminar: *The Pmas/ppak Integral-field SN hosts COmpilation (PISCO)*, CfA Harvard MA.
Oct 2017	Invited talk: *The local environment of type Ia SNe as seen with IFS*, Carnegie Observatories, Pasadena.
Mar 2017	Invited talk: *The All-weather MUse SN Integral field Nearby Galaxies survey*, U. Oulu, Finland.
Mar 2017	Invited talk: *PISCO and AMUSING: IFS of SN environments*, University of Turku, Finland.
Feb 2017	Invited talk: *Integral field spectroscopy of SN environments*, University of Toronto, Canada.
Feb 2017	Invited talk: *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 talk: *Spectrophot. SNII template: A SiFTO fitter for SNeII*. LSST SN workshop, Pittsburgh.
Aug 2016	Contributed talk: *SN environmental studies through IFS*. Supernovae through the ages: understanding the past to prepare for the future, Easter Island, Chile.
Jul 2016	Contributed talk: *Supernova environmental studies through Integral Field Spectroscopy*. XII Reunión Sociedad Española de Astronomía (SEA) 2016, Bilbo, Spain.
Jul 2016	Contributed talk: *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 talk: *Standardization of type II supernova light-curves with statistical methods*. Meeting on Fundamental Cosmology, Barcelona.
Jun 2016	Invited seminar: *Environmental studies of SNe*. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid, Spain.
May 2016	Contributed talk: *Statistical methods in SN II light-curves*. South American Supernovae 2016, La Plata, Argentina.

Mar 2016	Contributed talk: *The local environment of SNe as seen with IFS*. Chilean Astronomical Society (SOCHIAS) meeting 2016, Antofagasta, Chile.
Jun 2015	Contributed talk: *Nearby supernova host galaxies from the CALIFA survey*. European Week of Astronomy and Space Science (EWASS) 2015, La Laguna, Spain.
Jun 2015	Contributed talk: *The local environment of SNe.*, IX PESSTO meeting, Paris, France.
May 2015	Invited seminar: *Characterizing SN host galaxies with IFS*. European Southern Observatory (ESO), Santiago, Chile.
Apr 2015	Contributed talk: *PCA of type II SN light-curves*. South American Supernovae 2015, Santiago, Chile.
Apr 2015	Contributed talk: *SN studies with IFS: the CALIFA contribution.* CALIFA Busy Week, Firenze, Italy.
Sep 2014	Invited 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	Invited seminar: *Integral Field Spectroscopy of nearby supernova host galaxies.*. Institut d'Estudis Espacials de Catalunya, Universitat Autònoma de Barcelona.
Nov 2013	Contributed talk: *Studying SNe environment with CALIFA Survey*. LARIM: XIV Latin American Regional IAU Meeting, Florianópolis, Brasil.
Jul 2013	Contributed talk: *Integral Field Unit spectroscopy of supernova host galaxies*. XXIII Encontro Nacional de Astronomía e Astrofísica (ENAA), CAAUL Universidade de Lisboa, Portugal.
Apr 2013	Invited seminar: *IFU spectroscopy of SN host galaxies*. Universidad de Chile, Santiago, Chile.
Apr 2013	Contributed talk: *IFU spectroscopy of SN host galaxies*. CALIFA 5th Busy Week, AIP - An der Sternwarte, Potsdam, Germany.
Jan 2013	Invited seminar: *Using the environment to understand SNe properties*. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Madrid, Spain.
Nov 2012	Contributed talk: *Studying CCSNe environment with CALIFA Survey*. CALIFA 4th Busy Week, Instituto de Astronomía de Andalucía (IAA), Granada, Spain.
Aug 2012	Contributed talk: *Type-Ia SNe standarization accounting for the environment*. Modern Cosmology: Early Universe, CMB and LSS, Benasque Center for Science, Benasque, Spain.
Oct 2010	Contributed talk: *Type-Ia 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).
2017 - present	Member of the Sloan Digital Sky Survey IV (SDSS-IV). PI of an ancillary program in MaNGA to observe SN host galaxies.
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.
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 the Public Spectroscopic Survey of Transient Objects (PESSTO/ePESSTO). Serving 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)

Major collaborators

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), M. Hamuy (DAS, U. Chile), M. Wood-Vasey (U. Pittsburgh), C. Badenes (U. Pittsburgh), M. A. Pérez-Torres (IAA-CEFCA), I. Domínguez (UGR, Spain), 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).

Observing experience

Feb 2019	4 nights, **CAHA**, 3.5m telescope. *SN ejecta masses and host galaxy relations* (PI: Domínguez).
Jan 2019	47.6 hours, **OJ** 0.8m telescope. *SN environments with narrow band imaging* (PI: Galbany).
Oct 2018	22 hours, **CPO** 8.1m Very Large Telescope (VLT). *IFS of HI-rich galaxies* (PI: López-Sánchez).
Oct 2018	99 hours, **CPO** 8.1m VLT. *AMUSING VIII: CSP SNIa host galaxies* (PI: Anderson).
Ago 2018	42 hours, **CTIO**, 1.3m SMARTS telescopes. *NIR SNe Ia follow-up* (PI: Galbany).
Ago 2018	9 hour, **GO**, 8.2m Gemini-N Telescope. *Spectroscopic confirmation of high-z SLSNe* (PI: Galbany).
Jul 2018	6 nights, **CAHA**, 3.5m telescope. *The host galaxies of CSP SNe Ia* (PI: Galbany).
Feb-Jul 2018	30 hours, **CTIO**, 1.3m SMARTS telescopes. *FFT follow-up* (PI: Galbany).
Apr 2018	99 hours, **CPO** 8.1m VLT. *AMUSING VII: nebular spectroscopy of CCSNe II* (PI: Kuncarayakti).
Feb-Jul 2018	1 hour, **GO**, 8.2m Gemini-N Telescope. *Nebular spectroscopy of SN2017dio* (PI: Galbany).
Feb-Jul 2018	11 nights, **AAT**, 4m telescope. *IFU observations of CSP SN Ia host galaxies* (PI: Galbany).
Feb-Jul 2018	9 hour, **GO**, 8.2m Gemini-N Telescope. *Spectroscopic confirmation of high-z SLSNe* (PI: Galbany).
Feb 2018	3 nights, **CAHA**, 3.5m telescope. *IFU observations of CSP SN Ia host galaxies* (PI: Galbany).
Oct 2017	12 hours, **GO**, 8.2m Gemini-S Telescope. *New Approaches to SN Standardisation for Cosmology* Classification of faint (∼23 mag) SN candidates from DES (PI: Olivares).
Oct 2017	99 hours, **CPO** 8.1m VLT. *AMUSING VI: nebular spectroscopy of CCSNe I* (PI: Kuncarayakti).
Sep 2017	4 nights, **LCO**, 6.5m Clay telescope. *New Approaches to SN Standardisation for Cosmology: Classification of faint (∼22 mag) SN candidates from DES* (PI: Förster).
Aug 2017	2 nights, **CAHA**, 3.5m telescope. *Improving the use of SNe Ia as distance indicators in the NIR: Observations of SN Ia SweetSpot host galaxies* (PI: Galbany).
Jun 2017	30 objects, **APO**, 2.5m SDSS telescope. *Constraining SN progenitors through the characterisation of their environment.* MaNGA 2017 ancillary program (PI: Galbany).
Apr 2017	4 nights, **CAHA**, 3.5m telescope. *Reducing systematic effects in NIR SN Ia standardization: Observations of SN Ia SweetSpot host galaxies* (PI: Galbany).
Apr 2017	99 hours, **CPO** 8.1m VLT. *AMUSING V: Host galaxy dependences in the NIR SN Ia Hubble diagram* (PI: Galbany).
Mar 2017	1 night, **LCO**, 6.5m Baade telescope. *The first NIR spec. study of high-z (z>0.5) SNIa host galaxies* FIRE spectroscopy of high-redshift SNLS SN host galaxies (PI: González-Gaitán).
Nov 2016	14 hours, **GO**, 8.2m Gemini-S Telescope. *New Approaches to SN Standardisation for Cosmology* Classification of faint (∼23 mag) SN candidates from DES (PI: González-Gaitán).
Nov 2016	45 hours, **CPO** 8.1m VLT. *AMUSING IV: Reducing the scatter in the NIR SN Ia Hubble diagram* IFS of SweetSpot SNIa host galaxies (PI: Galbany).
Oct 2016	2 nights, **CAHA**, 3.5m telescope. *Reducing systematic effects in NIR SN Ia standardization* Observations of SN Ia SweetSpot host galaxies (PI: Galbany).
Oct 2016	4 nights, **LCO**, 6.5m Clay telescope. *New Approaches to SN Standardisation for Cosmology* Classification of faint (∼22 mag) SN candidates from DES (PI: Galbany).
Jul 2016	2 nights, **LCO**, 6.5m Baade telescope. *The first NIR spectroscopic study of high-z (z>0.5) SNIa host galaxies* FIRE spectroscopy of high-redshift SNLS SN host galaxies (PI: Galbany).
May 2016	99 hours, **CPO** 8.1m VLT. *AMUSING III: constraining SN progenitors from narrow features* IFS of SN host galaxies with high-res spectral observations (PI: Anderson).

Jan 2016	0.5 night, **LCO**, 6.5m Baade telescope. *The HiTS Survey: real-time detection of stellar explosions*. Spectroscopy of HiTS SN host galaxies (PI: Förster)
Jan 2016	5 nights, **CAHA**, 3.5m telescope. *Constraining SN progenitors with the Na absorption* (PI: Galbany).
Jan 2016	1 night, **LCO**, 6.5m Baade telescope. *Probing CSM interaction and mass-loss of SNIIn via late-time spec.* (PI: Kuncarayakti).
Nov 2015	99 hours, **CPO** 8.1m VLT. *AMUSING II: supernova rates with respect to environment properties* IFS of ASAS-SN host galaxies (PI: Anderson).
Oct 2015	10 hours, **GO**, 8.2m Gemini-S Telescope. *New Approaches to SN Standardisation for Cosmology* Classification of faint ($\sim$23 mag) SN candidates from DES (PI: Galbany).
Set 2015	4 nights, **LCO**, 6.5m Clay telescope. *New Approaches to SN Standardisation for Cosmology* Classification of faint ($\sim$22 mag) SN candidates from DES (PI: González-Gaitán).
Set 2015	4 nights, **LSO**, 3.5m New Technology Telescope (NTT). *The Public ESO Spectroscopic Survey of Transient Objects* Classification and follow-up of nearby transients (PI: Smartt).
Ago 2015	6 nights, **CAHA**, 3.5m telescope. *IFS of CC SN environments in low-mass galaxies to compensate the sample from CALIFA* (PI: Galbany).
May 2015	99 hours, **CPO** 8.1m VLT. *AMUSING I: constraining progenitor properties, and refining distance calibration techniques* IFS of CSP SNIa host galaxies (PI: Anderson).
May 2015	4 nights, **CPO** 8.1m VLT. *Study of nearby CCSN environments and parent stellar populations observed by MUSE* (PI: Kuncarayacti).
Feb 2015	6 nights, **CTIO**, 4m Blanco telescope. *HITS Survey: real-time detection of stellar explosions* Searching SN shock breakouts with the HIgh cadence Transient Survey (PI: Förster).
Dec 2014	22 hours, **ORM**, 10m Gran Telescopio de Canarias (GTC). *Elemental abundances on high-z ($\sim$0.5) galaxies hosting type Ia SNe: study metallicities at SN positions* (PI: Moreno-Raya).
Oct 2014	3 nights, **LSO**, 3.5m NTT. *The Public ESO Spectroscopic Survey of Transient Objects* Classification and follow-up of nearby transients (PI: Smartt).
Jun 2014	2 hours, **CPO** 8.1m VLT. *Characterising the location of SNe within galaxies* IFS of a SN host galaxy for the MUSE Science Verification (PI: Galbany).
Apr 2014	1 night, **LCO**, 6.5m Baade telescope. *Constrains on nearby SN progenitors from IFS of the explosion site* (PI: Kuncarayacti).
Mar 2014	5 nights, **CTIO**, 4m Blanco telescope. *HITS Survey: real-time detection of stellar explosions* Searching SN shock breakouts with the HIgh cadence Transient Survey (PI: Förster).
Jan 2014	4 nights, **ORM**, 4.2m William Herschel Telescope (WHT) *Elemental abundances of galaxies hosting type Ia SNe: spectroscopy to study metallicities at SN positions* (PI: Moreno Raya).
May 2013	4 nights, **CAHA**, 3.5m telescope. *the CALIFA Survey: Optical integral field spectroscopy of nearby galaxies $\sim$0.02* (PI: Sánchez).
Nov 2007	2 nights, **ORM**, 3.6m Telescopio Nazionale Galileo (TNG). *Observations of SN Ia discovered by SDSS-II* Classification of SN candidates from the SDSS-II SN Survey (PI: Castander).

Organisation of scientific meetings and seminar series

Jan 2019	Organizer of the workshop *"Supernova host galaxies with IFS"*, 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 - 2018	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

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 Ia 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

23/06/2018	"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	'Career day' at the Environmental Charter School, outreach talk. Pittsburgh PA.
18/03/2016	"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	"Supernovas, explosiones en el universo", outreach talk at the Colegio Malaquias Concha, La Granja, Chile (in Spanish, Día de astronomia, CONICYT).
01/12/2015	"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	"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	"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 Ilatargi Astronomical Association, Oñati, Spain (in Spanish, El Correo).

Languages

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

Computer skills

Op. Systems	Linux, OS X
Astronomy	IRAF/pyraf, STARLIGHT (galaxy stellar population fitting), SNANA, SiFTO (SN LC fitting), SYNOW, SYN++, SYNAPPS (SN spectral fitting).
Computing	C++, Root, Fortran, IDL, R, python
Databases	MySQL

Astronomical society membership

2016 - present	Sociedad Española de Astronomía (SEA)
2015 - 2016	Sociedad Chilena de Astronomía (SOCHIAS)

Other merits

Dec 2018	Associate certification from the Center for the Integration of Research, Teaching, and Learning (CIRTL), University of Pitteburgh.
—	Reviewer for journals: ApJ (US), MNRAS (UK), Galaxies (Switzerland), RACCE (Colombia).
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	Research accreditation for *Tenured assistant professor* issued by 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).