

# 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 will be 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 150 articles with more than 7100 citations and an h-index of 40 (ADS, May 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, J-PLUS, LSST, WFIRST), and I had the chance to mentor 9 undergraduate and 10 graduate students, including two funded 3-months research visits.

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## 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).

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## 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 **Postdoctoral FONDECYT fellow**. Universidad de Chile.
- Nov 2011 - Sep 2013 **Postdoctoral researcher**. Instituto Superior Técnico (IST), Universidade de Lisboa.

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## 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

## Teaching activity

Nov 2016 **Invited professor** '2nd SELGIFS Advanced 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.

## 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 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 subluminal 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 stellar population fitting combining optical spectroscopy and UV imaging**  
 Meghan Ciento, 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 *papers under review* #16).  
 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.

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## Publication list

Here you can find links of my publications in the [ADS](#), [Google Scholar](#), and [ORCID](#).

### Selected refereed papers

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*, accepted.
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. Domínguez, **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 and SNLS surveys.  
T. de Jaeger, 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. Haberman, 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. Vilchez, 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

104. 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*, accepted.

103. Nebular H $\alpha$  Limits for Fast Declining Type Ia Supernovae  
D. Sand, et al. *APJL*, accepted.
102. First cosmology results using SNIa from the DES: Measurement of the Hubble constant.  
E. Macaulay, et al. *MNRAS*, accepted, arXiv:[1811.02376](#).
101. Using NIR Spectroscopy to determine the outer  $^{56}\text{Ni}$  distribution in SNe Ia as a test for explosion scenarios.  
C. Ashall, et al. *APJL*, accepted.
100. The type IIP supernova 2017eaw: from explosion to the nebular phase  
T. Szalai, et al. *APJ*, accepted.
99. Cosmological constraints from multiple probes in the DES.  
T. Abbott, et al. *FERMILAB PUB.*, accepted, arXiv:[1811.02375](#).
98. ASASSN-15oz: Evidence of Circumstellar Interaction in a Type IIL Supernova.  
K. Azalee Bostroem, et al. *MNRAS*, accepted.
97. First release of the high-z SLSNe from the Subaru high-z SN campaign (SHIZUCA). II. Spectroscopic properties.  
C. Curtin, et al., *APJS*, accepted, arXiv:[1801.08241](#).
96. First release of the high-z SLSNe from the Subaru high-z SN campaign (SHIZUCA). I. Photometric properties  
T. J. Moriya, et al., *APJ*, accepted, arXiv:[1801.08240](#).
95. First cosmology results using SNIa from the DES: Photometric pipeline and light curve release.  
D. Brout, et al. *APJ*, accepted, arXiv:[1811.02378](#).
94. First cosmology results using SNIa from the DES: Analysis, systematic uncertainties, and validation.  
D. Brout, et al. *APJ*, accepted, arXiv:[1811.02377](#).
93. First cosmology results using SNIa from the DES: Constraints on cosmological parameters.  
T. Abbott, et al. *APJL*, accepted, arXiv:[1811.02374](#).
92. J-PLUS: measuring H $\alpha$  emission line fluxes in the nearby universe  
R. García-Logroño, et al., *A&A*, accepted, arXiv:[1804.04039](#).
91. J-PLUS: Morphological star/galaxy classification by PDF analysis  
C. López-Sanjuan, et al., *A&A*, accepted, arXiv:[1804.02673](#).
90. Investigating the properties of stripped-envelope supernovae; what are the implications for their progenitors?  
S. Prentice et al. *MNRAS*, accepted, arXiv:[1812.03716](#).
89. The fifteenth data release of the Sloan Digital Sky Survey  
S. Anderson, et al. *APJS*, accepted, arXiv:[1812.02759](#).
88. J-PLUS: The Javalambre Photometric Local Universe Survey.  
J. Cenarro, et al., *A&A*, accepted, arXiv:[1804.02667](#).
87. Spatial field reconstruction with INLA: Application to IFU galaxy data.  
S. González-Gaitán, et al. *MNRAS*, [482:3880 \(2019\)](#), arXiv:[1802.06280](#).
86. Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program  
Eric Y. Hsiao, et al. *PASP*, [131:014002 \(2019\)](#), 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*, [870:12 \(2019\)](#), arXiv:[1811.10056](#).
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*, [131:014001 \(2019\)](#), arXiv:[1810.09252](#).
83. 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](#).
82. 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](#).
81. SN 2017ens: The metamorphosis of a bright broad-lined type Ic supernova to a type IIn  
T.-W. Chen et al. *APJL*, [867:L31 \(2018\)](#), arXiv:[1808.04382](#).
80. 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](#).
79. 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](#).



78. 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.
77. Relativistic supernova 2009bb exploded close to an atomic gas cloud.  
Michal J. Michalowski, et al., *A&A*, **618:A104** (2018), arXiv:1808.00977.
76. The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.  
M. Sako, et al. *PASP*, **130:064002** (2018), arXiv:1401.3317.
75. Type II supernovae in low luminosity host galaxies.  
C. Gutiérrez, et al., and *MNRAS*, **479:3232** (2018), arXiv:1806.03855.
74. The delay of shock breakout due to circumstellar material seen in most Type II Supernovae  
F. Förster, et al., *NATURE ASTRONOMY*, **2:808** (2018), arXiv:1809.06379.
73. The type II<sub>n</sub> supernova 2010bt: The explosion of a star in outburst.  
N. Elias-Rosa, et al., *APJ*, **860:68** (2018), arXiv:1805.02188.
72. Using late-time spectra to constrain Type Ia supernova progenitor and explosion properties  
K. Maguire, et al., *MNRAS*, **477:3567** (2018), arXiv:1803.10252.
71. Discovery of distant RR Lyrae stars in the Milky Way using DECam  
G. Medina, et al., *APJ*, **855:43** (2018), arXiv:1802.01581.
70. Asteroids in the High Cadence Transient Survey  
J. Peña, et al., *AJ*, **155:135** (2018).
69. SN 2017dio: a type Ic SN exploding in a hydrogen-rich circumstellar medium  
H. Kuncarayakti, et al., *APJL*, **854:L14** (2018), arXiv:1712.00027
68. 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
67. 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
66. The fourteenth data release of the Sloan Digital Sky Survey  
B. Abolfathi, et al. *APJS*, **235:42** (2018), arXiv:1707.09322.
65. 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.
64. Multi-messenger Observations of a Binary Neutron Star Merger  
B. P. Abbott, et al., *APJL*, **848:2** (2017), arXiv:1710.05833.
63. A kilonova as the electromagnetic counterpart to a gravitational-wave source  
S. Smartt, et al., *NATURE*, **551:75** (2017), arXiv:1710.05841.
62. 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.
61. Serendipitous discovery of RR Lyrae stars in the Leo V ultra-faint galaxy  
G. Medina, et al., *APJL*, **845:10** (2017), arXiv:1708.00009.
60. Sloan Digital Sky Survey IV: Mapping the Milky Way, nearby galaxies and the distant Universe  
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39. SN 2015bn: a detailed multi-wavelength view of a nearby superluminous supernova  
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35. Star formation along the Hubble sequence: Radial structure of the star formation of CALIFA galaxies  
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20. Central star formation and metallicity in CALIFA interacting galaxies  
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#### 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 Fernández, 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 Fernández, Dr. Francisco J. Castander  
BIBLIOTECA DE CIÈNCIA I TECNOLOGIA (UAB), [T-53 2008 GAL](#)

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### Invited presentations and selected talks

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| Aug 2019 | Invited talk: <i>Progenitors of Type Ia supernovae</i> conference, Lijiang, Yunnan, China.                     |
| Feb 2019 | (Contributed) <i>A 1991bg-like SNIa 2016hmk</i> , Carnegie SN Project meeting, Saint George Island, FL.        |
| Dec 2018 | (Contributed) <i>Testing WFIRST simulations with SNEMO</i> , Lawrence Berkeley National Lab, CA.               |
| Nov 2018 | Seminar: <i>SN Ia local environments with IFS</i> , University of Pennsylvania, Philadelphia PA.               |
| Nov 2018 | Seminar: <i>SN 2016hmk, a Ca-rich 91bg-like SN Ia with a light echo</i> , ESO, Santiago, Chile.                |
| Nov 2018 | (Contributed) <i>The local environment of type Ia SNe as seen with IFS</i> , Bariloche, Argentina.             |
| Jul 2018 | (Contributed) <i>A Ca-rich faint 91bg-like type Ia SN</i> , Institute for Astrophysics, Honolulu HI.           |
| Jul 2018 | (Contributed) <i>CSP SN Ia environments with IFS</i> . Carnegie SN Project meeting, IfA, Honolulu HI.          |
| Jul 2018 | (Contributed) <i>A Ca-rich faint 91bg-like type Ia SN</i> , Lorentz center, Leiden.                            |
| Jun 2018 | Seminar: <i>Inferring SN progenitor properties with J-PLUS</i> , CEFCa, Teruel.                                |
| Jun 2018 | Seminar: <i>Using the environment to infer SN progenitor properties</i> , U. Zaragoza.                         |
| Jun 2018 | Seminar: <i>Using the environment to infer SN progenitor properties</i> , U. Barcelona.                        |
| Jun 2018 | Seminar: <i>The Pmas/ppak Integral-field SN hosts COMpilation (PISCO)</i> , IAA Granada.                       |
| Jun 2018 | Seminar: <i>Using the environment to infer SN progenitor properties</i> , U. Autònoma de Barcelona.            |
| Dec 2017 | Seminar: <i>The Pmas/ppak Integral-field SN hosts COMpilation (PISCO)</i> , CfA Harvard MA.                    |
| Oct 2017 | (Contributed) <i>The local environment of type Ia SNe as seen with IFS</i> , Carnegie Observatories, Pasadena. |
| Mar 2017 | Seminar: <i>The All-weather MUSE SN Integral field Nearby Galaxies survey</i> , U. Oulu, Finland.              |
| Mar 2017 | Seminar: <i>PISCO and AMUSING: IFS of SN environments</i> , 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 SNIa*. 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 Astronomia 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-Ia SNe standardization accounting for the environment*. Modern Cosmology: Early Universe, CMB and LSS, Benasque Center for Science, Benasque, Spain.
- Oct 2010 (Contributed) *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.

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## 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 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 Spectroscopic Survey of Transient Objects (PESSTO  $\rightarrow$  ePESSTO+).  
Serving as the ePESSTO+ Ombudsperson, and in the Target And Alert (TAT) committee. PI of the *SN environments* and the *SNIa cosmology in the NIR* science groups.
- 2011 - 2017 Associate member of the Calar Alto Legacy Integral Field Area Survey (CALIFA).  
Responsible of the external ancillary data catalogues.
- 2008 - 2014 External member of the Sloan Digital Sky Survey II - Supernova Survey (SDSS-II/SNe).
- 2006 - 2011 Participant member of the Dark Energy Survey (DES)

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## Major collaborators

J. P. Anderson (ESO, Chile), S. González-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-CEFA), I. Domínguez (UGR, Spain), M. Mollá (CIEMAT, Spain), A. R. López-Sánchez (Macquarie U.), F. F. Rosales-Ortega (INAOE, México), Y. Ascasibar (UAM, Spain), J. M. Vilchez (IAA, Spain), V. Stanishev (U. Linköping, Sweden), A. M. Mourão (IST, Lisbon), R. Miquel (IFAE-UAB, Spain).

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## Observing experience

- Feb-Ago 19 42 hours, **CTIO**, 1.3m SMARTS telescopes. *NIR SNe Ia follow-up* (PI: Galbany).
- 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).
- Ago18-Jan19 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 ( $\sim 23$  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 ( $\sim 22$  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 ( $\sim 23$  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 ( $\sim 22$  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: Kuncarayakti).
- 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: Kuncarayakti).
- 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).

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## Organisation of scientific meetings and seminar series

- 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).

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## Research visits

- 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 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

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## 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 astronomía, CONICYT](#)).
- 18/03/2016 "Supernovas, explosiones en el universo", outreach talk at the Colegio Malaquias Concha, La Granja, Chile (in Spanish, [Día de astronomía, 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](#)).

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## Languages

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

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## 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

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## Astronomical society membership

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

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## Other merits

Apr 2019	Teaching accreditation for <i>Lecturer</i> issued by 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.
—	Reviewer for journals: ApJ (US), AJ (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 <i>Tenured assistant professor</i> 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).