

Curriculum Vitae

Lluís Galbany i González, DNI 53127973C

I am an observational astrophysicist with broad and multidisciplinary interests spanning supernova physics, massive stars, galaxy evolution, and cosmology. So far, I have published 281 articles with more than 18,000 citations and an h-index of 60 (ADS, Jul 2022). My work has been presented in international conferences giving in total 68 talks, including 6 invited talks at different conferences and 28 invitations to deliver seminars at different institutions. I have been PI of 59 successful observational proposals in a competitive basis in the largest observatories around the world, and actively participated in more than 40 other observational campaigns. I have led analyses within major collaborations (SDSS-II SN, CALIFA, PESSTO, DES, HSC-SSP, MaNGA, J-PLUS, LSST, WFIRST, DESI, ZTF), and I had the chance to mentor 3 postdocs, 8 PhD students, 7 graduate and 14 undergraduate students, including two funded 3-months PhD research visits, and 2 ERASMUS+ undergrad programmes. I have always enjoyed scientific independence, conducting competitive research and contributing to enjoyable scientific environments.

Research activity

From Sep 21 **Ramon y Cajal fellow (2019, ranked 1st)**. Institut de Ciències de l'Espai (ICE-CSIC).
Sep 19 - Aug 21 **Marie Skłodowska-Curie fellow (MSCA-IF 2018)**. Universidad de Granada.
Sep 16 - Aug 19 **Postdoctoral research associate**. University of Pittsburgh.
Oct 13 - Aug 16 **FONDECYT 2014 postdoctoral fellow**. Universidad de Chile.
Nov 11 - Sep 13 **Postdoctoral researcher**. Instituto Superior Técnico (IST), U. de Lisboa.
Jun 06 - Oct 11 **PhD student**. Institut de Física d'Altes Energies - IFAE/UAB.

Publications

I have published 281 articles with more than 18,000 citations and an h-index of 60 (ADS, Jul 2022). A complete list of publications can be found at the following links: [ADS](#), [Google Scholar](#), and [ORCID](#). Here, I list those 31 publications in which I am in the first three positions, meaning I led the analysis, I was the main contributor with a close collaborator, or one or two students under my supervision led the analysis.

31. Testing the Homogeneity of Type Ia Supernovae in the NIR for Accurate Distance Estimations
T. Müller-Bravo, **L. Galbany**, E. Karamehmetoglu, et al. *A&A*, accepted, [arXiv:2207.04780](#).
30. A 5 per cent measurement of the Hubble constant from Type II supernovae
T. de Jaeger, **L. Galbany**, A. G. Riess, et al. *MNRAS*, [514:5159 \(2022\)](#), [arXiv:2203.08974](#).
29. A Tale of Two Type Ia Supernovae: The fast-declining siblings SNe 2015bo and 1997cn
W. Hoogendam, C. Ashall, **L. Galbany**, et al. *APJ*, [928:103 \(2022\)](#), [arXiv:2109.14644](#).
28. Aperture-corrected spectroscopic type Ia supernova host galaxy properties
L. Galbany, M. Smith, S. Duarte Puertas, et al. *A&A*, [659:89 \(2022\)](#), [arXiv:2112.02517](#).
27. The Dependence of the Type Ia Supernova Host Bias on Observation or Fitting Technique
J. Hand, S. Liu, **L. Galbany**, et al. *APJ*, [925:115 \(2022\)](#), [arXiv:2102.08980](#).
26. The effects of varying colour-luminosity relations on type Ia supernova science.
S. González-Gaitán, T. de Jaeger, **L. Galbany**, et al. *MNRAS*, [508:4656 \(2021\)](#), [arXiv:2009.13230](#).
25. The delay time distribution of supernovae from IFS of nearby galaxies.
A. Castrillo, Y. Ascasibar, **L. Galbany**, et al. *MNRAS*, [501:3122 \(2021\)](#). [arXiv:2012.11958](#).
24. A Template-based Approach to Photometric Classification of SN 91bg-like in SDSS-II SN Survey.
D. Perrefort; Y. Zhang; **L. Galbany**, et al. *APJ*, [904:156 \(2020\)](#). [arXiv:2010.09756](#).
23. Studying Type II supernovae as cosmological standard candles using the Dark Energy Survey.
T. de Jaeger, **L. Galbany**, S. González-Gaitán, et al. *MNRAS*, [495:1860 \(2020\)](#). [arXiv:2005.09757](#).
22. Studying the environment of AT 2018cow with MUSE.
J. D. Lyman, **L. Galbany**, S. F. Sánchez, et al. *MNRAS*, [495:992 \(2020\)](#). [arXiv:2005.02412](#).

21. Evidence for a Chandrasekhar-mass explosion in the Ca-strong 91bg-like type Ia supernova 2016hbk. **L. Galbany**, C. Ashall, P. Hoeflich, et al. *A&A*, **630:A76** (2019), arXiv:1904.10034.
20. Accounting for uncertainties in gas kinematics arising from stellar continuum subtraction in MUSE. E. Bellocchi, Y. Ascasibar, **L. Galbany**, et al. *A&A*, **625:A83** (2019), arXiv:1903.06252.
19. Emission-line diagnostics of CCSN host HII regions including massive binary population Lin Xiao, **L. Galbany**, J.J. Eldridge, et al. *MNRAS*, **482:384** (2019), arXiv:1805.01213.
18. Serendipitous discovery of a strong-lensed galaxy in integral field spectroscopy from MUSE. **L. Galbany**, T. E. Collett, J. Méndez-Abreu, et al. *MNRAS*, **479:262** (2018), arXiv:1803.09277G.
17. SN 2016esw: a bright Type II supernova observed a few hours after the explosion T. de Jaeger, **L. Galbany**, C. P. Gutiérrez, et al., *MNRAS*, **478:3776** (2018), arXiv:1805.03205.
16. 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.
15. Elemental gas-phase abundances of intermediate redshift type Ia supernova star-forming galaxies M. E. Moreno-Raya, **L. Galbany**, A. R. López-Sánchez, et al., *MNRAS*, **476:307** (2018), arXiv:1801.06547.
14. PISCO: The PMAS/Ppak Integral field supernova hosts compilation **L. Galbany**, J. P. Anderson, S. F. Sánchez, et al., *APJ*, **855:107** (2018), arXiv:1802.01589.
13. Constraints on core-collapse supernova progenitors from explosion site integral field spectroscopy H. Kuncarayakti, J. P. Anderson, **L. Galbany**, et al. *A&A*, **613:35** (2018), arXiv:1711.05765.
12. SN 2016jhj at redshift 0.34: extending the SN II Hubble diagram using the standard candle method T. de Jaeger, **L. Galbany**, A. Filippenko, et al. *MNRAS*, **472:4233** (2017), arXiv:1709.01513.
11. Molecular gas at supernova local environments unveiled by EDGE **L. Galbany**, L. Mora, S. González-Gaitán, et al. *MNRAS*, **468:628** (2017), arXiv:1702.02945.
10. Unresolved versus resolved: calibrating young SSP models with MUSE observation of NGC 3603. H. Kuncarayakti, **L. Galbany**, J. P. Anderson, et al. *A&A*, **593:A78** (2016) arXiv:1607.03446.
9. Nearby supernova host galaxies from the CALIFA Survey: II. SN environmental metallicity **L. Galbany**, V. Stanishev, A. M. Mourão, et al. *A&A*, **591:48** (2016), arXiv:1603.07808.
8. SN 2014J at M82: I. A middle-class type Ia supernova by all spectroscopic metrics **L. Galbany**, M. E. Moreno-Raya, P. Ruiz-Lapuente, et al. *MNRAS*, **457:525** (2016), arXiv:1510.06596.
7. Characterising the environments of supernovae with MUSE **L. Galbany**, J. P. Anderson, F. F. Rosales-Ortega, et al. *MNRAS*, **455:4087** (2016), arXiv:1511.01495
6. UBVRIz light curves of 51 type II supernovae **L. Galbany**, M. Hamuy, M. M. Phillips, et al. *AJ*, **151:33** (2016), arXiv:1511.08402
5. Census of HII regions in NGC6754 derived with MUSE: Constraints on the metal mixing scale. S.F. Sánchez, **L. Galbany**, J. Falcón-Barroso, 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 **L. Galbany**, V. Stanishev, A. M. Mourão, 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**, 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, et al. *APJ*, **755:125** (2012), arXiv:1206.2210
1. The Subluminous Supernova 2007qd: A Missing Link in Low-Luminosity Type Ia Supernovae. C. M. McClelland, P. M. Garnavich, **L. Galbany**, et al. *APJ*, **720:704-716** (2010), arXiv:1007.2850

Invited presentations and selected talks

My work has been presented in international conferences giving in total 68 talks, including 6 invited talks at different conferences and 28 invitations to deliver seminars at different institutions. Here I list those I consider more relevant (I: invited, S: seminar, C: contributed):

- Nov 22 I: *Review of SN environments*, Supervirtual 2022, From Common to Exotic Transients.
- Nov 22 I: *Review of SN Ia cosmology*, VIII Fundamental Cosmology meeting, Granada.
- Sep 22 S: *A new measurement of H_0 with SNe Ia in the NIR*, RC SEA 2022, La Laguna.
- Jul 22 S: *A SN in the borough: IFS so SN host galaxies*, NAOJ, Tokyo.

Jul 22 S: *Integral Field Spectroscopy so SN host galaxies*, U Kyoto, Japan.
 Jun 22 C: *Cosmography of Laniakea: SNe Ia, PV. and DM*, NOT workshop, La Palma.
 Apr 22 I: *Data preparation for the LSST*, Copenhagen, Denmark.
 Feb 22 S: *IFS of SN hosts*, University of Purdue, IN.
 Feb 22 S: *Cornering H_0 form SNe Ia in the NIR*, IAC, Tenerife.
 Dec 21 S: *Dust, H_0 , and SNe*, King's College London.
 Apr 20 S: *A SN in the borough: IFS of SN hosts*, NYU Abu Dhabi (POSTPONED COVID-19).
 Oct 19 S: *A SN in the borough: integral field spectroscopy of SN hosts*, UNAM México.
 Oct 19 C: *IFS follow up of CSP SNIa host galaxies*, Carnegie Obs, Pasadena.
 Sep 19 C: *Dones and ToDos in IFS surveys of SN hosts*, U. de Southampton, UK.
 Sep 19 S: *Surveys of IFS of SN hosts*, Florida State University, Tallahassee, FL.
 Aug 19 I: *Progenitors of Type Ia supernovae* conference, Lijiang, Yunnan, China.
 Dec 18 C: *Testing WFIRST simulations with SNEMO*, Lawrence Berkeley Lab, CA.
 Nov 18 S: *SN Ia local environments with IFS*, University of Pennsylvania, Philadelphia PA.
 Nov 18 S: *SN 2016hmk, a Ca-rich 91bg-like SN Ia with a light echo*, ESO, Santiago, Chile.
 Nov 18 C: *The local environment of SNe Ia as seen with IFS*, Bariloche, Argentina.
 Jul 18 C: *A Ca-rich faint 91bg-like type Ia SN*, Lorentz center, Leiden.
 Dec 17 S: *The Pmas/ppak Integral-field SN hosts COmpilation (PISCO)*, CfA Harvard MA.
 Oct 17 C: *The local environment of SNe Ia with IFS*, Carnegie Observatories, Pasadena.
 Mar 17 S: *The All-weather MUSE SN Integral field Nearby Galaxies survey*, U. Oulu, Finland.
 Mar 17 S: *PISCO and AMUSING: IFS of SN environments*, University of Turku, Finland.
 Feb 17 S: *Integral field spectroscopy of SN environments*, University of Toronto, Canada.
 Nov 16 I: *SN remnant dominated regions and SN rates with IFS*, IFS school UAM, Madrid.
 Nov 16 C: *Spec-phot. SNI template: A fitter for SNI*. LSST SN workshop, Pittsburgh.
 Aug 16 C: *SN environmental studies with IFS*. SNe through the ages, Easter Island, Chile.
 Jul 16 C: *SN environmental studies through IIFS*. XII Reunión SEA 2016, Bilbo, Spain.
 Jul 16 C: *The AMUSING survey*. EWASS 2016, Athens, Greece.
 Jun 16 C: *Standardization of SN II with statistical methods*. Meeting on Fund. Cosmo., Barcelona.
 May 16 C: *Statistical methods in SNI light-curves*. SAS 2016, La Plata, Argentina.
 Mar 16 C: *The local environment of SNe as seen with IFS*. SOCHIAS 2016, Antofagasta, Chile.
 Jun 15 C: *Nearby supernova host galaxies from the CALIFA survey*. EWASS 2015, La Laguna, Spain.
 Jun 15 C: *The local environment of SNe*, IX PESSTO meeting, Paris, France.
 May 15 S: *Characterizing SN host galaxies with IFS*. ESO, Santiago, Chile.
 Apr 15 C: *PCA of type II SN light-curves*. South American Supernovae 2015, Santiago, Chile.
 Sep 14 S: *Characterizing SN host galaxies with IFS*. Universidad de Guanajuato, Mexico.
 Aug 14 I: *What can IFS shine on SN progenitors*. GH Adv. School on IFS, INAOE, Puebla, Mexico.
 Nov 13 C: *Studying SNe environment with CALIFA Survey*. XIV LARIM IAU, Florianópolis, Brasil.
 Jul 13 C: *Integral Field Unit spectroscopy of supernova host galaxies*. XXIII ENAA, Lisboa, Portugal.
 Aug 12 C: *SNIa standarization accounting for the environment*. Modern Cosmology, Benasque, Spain.

Observing experience

I have been PI of 59 successful observational proposals in a competitive basis in the largest observatories around the world, and actively participated in more than 41 other observational campaigns. I list here a summary of only those I was Principal investigator (PI):

Hubble Space Telescope (HST)	450 orbits WFC3. Proposals: 16741 and 17179.
Cerro Paranal Observatory (CPO)	201 hours UT4/MUSE. 39h UT1/KMOS.

Las Campanas Observatory (LCO)	66h UT4/HAWKI. 2 nights Baade/FIRE. 4 nights Clay/LDSS3.
Observatorio Roque de Los Muchachos (ORM)	24 nights NOT/NOTCam. 62h GTC/EMIR. 34h GTC/OSIRIS. 44h WHT/PFQHY. 4n WHT/ACAM-LIRIS.
Gemini Observatory (GO)	21h GEM-N/GMOS. 10h GEM-S/GMOS.
Cerro Tololo Inter-American Observatory (CTIO)	114h SMARTS/ANDICAM.
Centro Astronómico Hispano de Andalucía (CAHA)	19n 3.5m/Omega2000. 19n 3.5m/PMAS-Ppak.
Astronomical Australian Observatory (AAO)	11 nights AAT/KOALA.
Observatorio Astroómico de Javalambre (OAJ)	234h 0.8m/T80Cam.
Observatori Astronòmic del Montec (OAdM)	135h 0.8m/LAIA.
Apache Point Observatory (APO)	30 objects SDSS/BOSS. MaNGA Ancillary.

Teaching

Nov 21	Guest Lecturer <i>Techniques in Observational Astronomy</i> , Purdue University, IL.
From Sep 21	Lecturer Postgraduate Program in High Energy Physics, Astro. & Cosmo., UAB. MasterCosmos BCN, UAB, ICE-. Neutron Stars, Black Holes and Gravitational Waves.
Sep 19 - Aug 21	Lecturer Department of Theoretical and Cosmological Physics, U. Granada. Stellar Physics, Physics Laboratory, General Physics.
Nov 16	Guest Lecturer '2nd SELGIFS Advanced School on IFS Data Analysis', UAM, Spain.
Aug 14	Guest Lecturer 'GH Advanced School on IFS Techniques and Analysis', INAOE, Mexico.
Sep 08 - Sep 10	Teaching Assistant Physics Department of U. Autònoma de Barcelona. General Physics, Mathematical Methods, Physics Laboratory.

Supervision and mentorship

From Apr 23	Claudia Gutiérrez , <i>postdoc</i> , IEEC/ICE-CSIC. Funding: Ajudes Beatriu de Pinós (BP 2021), MCSA COFUND Action.
From Sep 22	Maria Kopsachielli , <i>postdoc</i> , ICE-CSIC. Funding: ICE María de Maetzu (MdM) postdoctoral fellowship.
From Nov 21	Tomás Müller , <i>postdoc</i> , ICE-CSIC. Funding: Proyecto Intramural Especial (PIE), Ref.: CSIC 20215AT016. Funding: Ayudas Juan de la Cierva (JdC), Ref.: FJC2021-047124-I.
From Sep 22	Dane Cross , <i>PhD student</i> , ICE-CSIC/UAB. <i>PhD co-advisor with Carles Sánchez</i> . Funding: Proyecto Intramural Especial (PIE) CSIC 20215AT016.
From May 22	Cristina Jiménez , <i>PhD student</i> , ICE-CSIC/IEEC/UAB. <i>PhD advisor</i> . Funding: "Ayudas para contratos predoctorales para la formación de doctores 2020".
From May 22	Kim Phan , <i>PhD student</i> , IEEC/ICE-CSIC/UAB. <i>PhD advisor</i> . Funding: "Ajuts per a la contractació d'investigadors predoctoral en formació (FI-2022)".
From Sep 20	Raúl González Díaz , <i>PhD student</i> , INAOE/ICE-/UAB. <i>PhD co-advisor with F. Rosales</i> .
Sep 18 - Sep 21	Jared Hand , U. Pittsburgh. <i>Supervised by W. M. Wood-Vasey. (See paper #27)</i> .
Sep 18 - Feb 21	Daniel Perrefort , U. Pittsburgh. <i>Supervised by W. M. Wood-Vasey. (See paper #24)</i> .

- From Apr 18 **Héctor Martínez Rodríguez**, U. Pittsburgh. *Supervised by C. Badenes.*
(See *selected refereed papers* #21)
- Abr - Jul 16 **Laura Sánchez-Menguiano**, U. Granada. *Supervised by I. Pérez and S. F. Sánchez.*
Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2015".
- Aug - Nov 14 **Manuel E. Moreno**, UCM. *Supervised by M. Mollá and A. López.* (See *paper* #15)
Funding: "Ayudas a la movilidad predoctoral para estancias en centros de I+D 2013".
- From Sep 22 **Carlos Alonso Álvarez**, ICE-CSIC. *IAE intro ICU.*
- Sep 20 - Feb 22 **Sara Muñoz Torres**, U. Granada. *TFM supervisor.*
- Oct 19 - Jul 20 **Román Fernández Aranda**, U. Complutense Madrid. *TFM supervised with M. Mollà.*
- Sep 19 - Jul 20 **Raúl González Díaz**, U. Granada. *TFM supervised with R. García-Benito.*
- Dec 18 - Jul 20 **Nataliya Ramos Chernenko**, U. Granada. *TFM supervised with I. Domínguez.*
- Nov 18 - Jun 19 **Macarena García del Valle**, U. Complutense Madrid. *TFM supervised with M. Mollà.*
- Oct 18 - Sep 19 **Isaac Lozano Rey**, U. Internacional de València (VIU). *TFM supervisor.*
- Sep 16 - Jun 17 **Asier Castrillo**, U. Autónoma Madrid. *TFM supervised with Y. Ascasibar.*
- Mar 23 - Jun 23 **Christos Thomopoulos**, U. Patras, Greece. *ERASMUS+.*
- Mar 23 - Jun 23 **John Kyriakopoulos**, U. Patras, Greece. *ERASMUS+.*
- Jun 22 - Sep 22 **Ramon Sanfeliu**, U. Autònoma de Barcelona. *Summer internship.*
- Feb 22 - Jul 22 **Cristina Jordà**, U. Politècnica de Catalunya. *TFG supervised with R. Morros.*
- Sep 20 - Jul 21 **Antonio Iáñez Ferres**, U. Granada. *TFG supervisor.* (See *paper* #31)
- Sep 20 - Jul 21 **María Delgado Mancheño**, U. Granada. *TFG supervisor.*
- Nov 19 - Jul 20 **Darío García Redecillas**, U. Granada. *TFG supervisor.*
- Nov 19 - Jul 20 **Lamberto Oltra Nieto**, U. Granada. *TFG supervisor.*
- Sep 16 - Jun 17 **Asier Castrillo**, UAM. *TFG supervised with Y. Ascasibar.* (See *paper* #25)
- Sep 16 - Sep 17 **Nicolette M. Kier**, U. Pittsburgh. *TFG supervisor.* (See *paper* #14)
- Sep 16 - Mar 17 **Yiwen Huang**, Carnegie Mellon U. *TFG supervisor.* (See *paper* #21)
- Jan-Sep 16 **Luis Mora**, U. Chile. *TFG supervisor.* (See *paper* #11)
- Jan-Jul 15 **Tania Moraga**, U. Chile. *TFG supervisor.* (See *paper* #6)
- Feb-Jul 14 **Ismael Pessa**, U. Chile. *TFG supervisor.* (See *paper* #28)

Fellowships and grants awarded (as a PI)

- Jul 22 *Ajuts per al Foment de la Cultura Científica a Catalunya Joan Oró* (FCRI). Funding: 15,000 EUR
- Jul 22 Hubble Space Telescope Cycle 30 #17179 proposal. Funding: ~90,000 USD.
- Dec 21 MOST CSIC 2021 project. Ref.: OSTCSI0003. Funding: 23,946.20 EUR.
Understanding SNe Ia through the relations between their v_{ej} and local host environments.
- Dec 21 CSIC I-LINK A project. Ref.: LINKA20409. Funding: 23,914.92 EUR.
Type Ia supernova in the near-infrared to map the cosmography of Laniakea.
- Sep 21 Hubble Space Telescope Cycle 29 #16741 proposal. Funding: ~90,000 USD.
- Sep 21 Proyecto Nacional I+D+i AYA. Ref.: PID2020-115253GA-I00 (+FPI). Funding: 155,577 EUR.
Cornering the Hubble tension by studying systematics with SNe (HOSTFLOWS).
- Sep 21 Proyecto Intramural Especial (PIE) CSIC. Ref.: PIE20215AT016. Funding: 150.000 EUR.
Cornering the Hubble tension by reconstructing the local Universe with SNe.
- Jul 20 *Ramon y Cajal Fellowship (2019, ranked 1st).* Ref.: RYC2019-027683-I. Funding: 308.600 EUR.
Supernova forensics to constrain progenitors and improve cosmology.
- May 20 UGR conference organization funding. Amount: 1.000 EUR.
- Mar 20 NOAJ grant for visitor researcher program. Funding: 300.000 JPY.
- Feb 19 *Marie Skłodowska-Curie Individual Fellowship (MSCA-IF).* Ref.: 839090. Fund.: 172,932.48 EUR.

- “Resolving the origins of supernovae: constraining progenitors with integral field spectroscopy”.
- Jan 19 *The future of SN host galaxies studies* workshop. Funding PITT-PACC: 8,000 USD.
- Apr 18 *New advances in NIR SNIa science* workshop. Funding PITT-PACC: 10,000 USD.
- Mar 18 *SNe II cosmology with the LSST* workshop. Funding PITT-PACC: 4,000 USD.
- Mar 17 FINCA grant for visitor researcher program. Funding: 2,650 EUR.
- Nov 16 *Preparing for SN science in the LSST era* workshop. Funding LSST enabling science: 19,750 USD.
- Apr 13 FONDECYT Postdoctoral fellowship 2014. Ref.: 3140566. Fund.: 74.352.000 CLP
Measuring cosmic acceleration using Type IIP supernovae.
- Jun 04 SENECA-SICUE student fellowship, Universidad de La Laguna. Funding: 4,520 EUR.

Total funding awarded: approx. 1,150,000 EUR

Press and outreach

- 27/10/22 Outreach talk at the Agrupació Astronòmica de Barcelona (ASTER).
- 25/07/22 Director of *La veu còsmica*, podcast of Poetry, music and science (Funded by FCRI).
- 19/05/22 Interview at Vallès Oriental TV, about astronomy and the city of Granollers ([Link](#)).
- 18/05/22 *Ciència amb tirador*, short public talks in a bar. First session at Bar Anònims, Granollers ([Link](#)).
- 28/04/22 *Amb G de Granollers* interview for the strategic plan of the city ([Link](#)).
- 17/02/22 Press release on a Nature Astronomy article *SN 2018aoz, the earliest detection of a type Ia supernova to date* ([ICE](#), [IEEC](#), [CSIC](#)).
- 12/12/21 Interview in *La esfera celeste* Astronomy blog, “*Nacimiento de una SN*” ([Link](#)).
- 24/11/21 Outreach talk at l’Alzina primary school, Molins de Rei.
- 18/03/21 Two outreach talks at the mental health unit of the juvenile detention center *Els Til·lers*.
- 12/11/20 Interview in *La esfera celeste* Astronomy blog, “*La ciencia de las SNs*” ([Link](#)).
- 14/11/19 IAU100: Outreach talk at José Hurtado Primary school, Granada. “What is a star?” ([Link](#)).
- 08/11/19 Participation in “Semana de la Ciencia” at UGR. Speaker in Stand 5 “Stellar evolution” ([Link](#)).
- 23/06/18 “Perfils”, interview in the online newspaper Nació digital ([Link](#)).
- 20/06/18 Interview in the La Xarxa television, at the program *Perfils* ([Link](#)).
- 30/05/18 ‘Career day’ at the Environmental Charter School, outreach talk. Pittsburgh PA.
- 18/03/16 “*Supernovas, explosiones en el universo*”, outreach talk for the *Día de la astronomía* at the Colegio Su Santidad Juan XXIII, San Joaquín, Chile ([Link](#), [Link](#)).
- 18/03/16 “*Supernovas, explosiones en el universo*”, outreach talk for the *Día de la astronomía* at the Colegio Malaquias Concha, La Granja, Chile ([Link](#), [Link](#)).
- 01/12/15 “*Supernovas, explosiones estelares*”, outreach talk at the Liceo Bicentenario Zapallar high school, Curicó, Chile (in Spanish, <http://www.astrofisica.cl/?p=4904>).
- 30/11/15 “*Supernovas, explosiones estelares*”, outreach talk at the Liceo Complejo Educacional Javiera Carrera high school, Talca, Chile ([Link](#)).
- 13/04/15 “*Los meteoritos*”, outreach talk at the Pintacuentos primary school, Las Condes, Chile ([Link](#)).
- 03/02/14 “*Esclata la Supernova més propera a la Terra des de 1604*”, press article in the online newspaper Nació digital ([Link](#)).
- 10/02/14 “*Un granollerí que estudia l’Univers a Xile*”, short interview for the La Xarxa television ([Link](#)).
- 28/12/12 “*Supernovas, la llave del lado oscuro del Universo*”, outreach talk at the Ilatargi Astronomical Association, Oñati, Spain ([Link](#)).

Organization of scientific meetings and seminar series

- Jun 22 Organizer of the extended [Public ESO Spectroscopic Survey of Transient Objects+ \(ePESSTO+\)](#) meeting, Barcelona, Jun 20-22.
- May 22 LOC member of the [16th Iberian Cosmology \(IberiCOS\) 2022](#) meeting, May 4-6.
- Sep 21 SOC member of the Encontro Nacional de Astron. e Astrofísica (ENAA), Sep 8-10.
- Jul 20 SOC member of the Dark Energy Science Collaboration (DESC) virtual meeting, Jul 20-24.
- Jun 20 Chair of the special session *Supernova host environments* at the EAS 2020, Leiden, NL.
- Mar 20 SOC member of the *Public Surveys and new instrumentation for CAHA*, Granada, Mar 12-13.
- Jan 20 Organizer of the workshop *CRISPINHO: Correcting reddening intelligently for cosmological supernova probes*, Granada, Jan 27-31.
- Sep 19 Organizer of the workshop [The future of SN host galaxies studies II](#), Soton, UK, Sep 23-25.
- Jan 19 Organizer of the workshop [The future of SN host galaxies studies](#), Pittsburgh, USA, Jan 22-24.
- Apr 18 Organizer of the workshop [New advances in NIR SNIa science](#), Pittsburgh, USA, April 11-13.
- Mar 18 Organizer of the workshop *SN II cosmology in the LSST*, Pittsburgh, USA, March 5-9.
- 17 - 19 Organizer of the Astro Seminars at the Department of Physics and Astronomy U. Pittsburgh.
- Nov 16 Organizer of the workshop [Preparing for supernova science in the LSST era: a kick-off workshop](#), Pittsburgh, USA, November 16-18.
- Nov 16 LOC member of the [DEC LSST Hack Week](#), Pittsburgh, US, November 7-11.
- Aug 16 LOC member of the conference [Supernovae through the ages: understanding the past to prepare for the future](#), Easter Island, Chile, August 9-13.
- Aug 16 Organizer of the workshop [SIDH: Supernova is in da house](#), Santiago, Chile, August 1-5.
- 2014 - 15 Organizer of 'Supernova Journal Club' seminar series (DAS).
- 2009 - 10 Organizer of PhD students 'Thursday's Meeting seminar series (IFAE).

Participation and responsibilities in international collaborations

- 2022 - present Member of the La Silla Schmidt Southern Survey (LS4).
- 2022 - present External collaborator of the SNIa cosmology group of the Zwicky Transient Survey (ZTF).
- 2021 - present Sponsored member of the Dark Energy Spectroscopic Instruemnt (DESI).
- 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 Roman Space Telescope SIT for SNIa cosmology (PI: S. Perlmutter).
- 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).
Served in the Publication Board committee (2019-2021).
Serving as a co-chair of the Speakers Bureau (2021-present).
- 2016 - present External collaborator of the Hyper Suprime Cam Survey (HSCS) for SNe II and SLSNe.
- 2016 - 2021 Member (until 2019; EC since then) of the Sloan Digital Sky Survey IV (SDSS-IV).
PI of an ancillary program in MaNGA to observe SN host galaxies.
- 2015 - present Member (EC until 2021) 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 ESO Spectroscopic Survey of Transient Objects (PESSTO).
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)

Research visits

- Jul 22 **National Astronomical Observatory of Japan.** *Under the NAOJ visitor program.*
 Type IIIn supernova environments and relation to SN properties.
 Collaborator: Dr. Takashi Moriya.
- Mar 22 **University of Aarhus, DENMARK**
 Status and development of the FLOWS project.
 Collaborator: Prof. Maximillian Stritzinger.
- Oct 19 **Instituto de Astronomía, UNAM, MEXICO**
 Quality control pipeline for the AMUSING survey.
 Collaborator: Prof. Sebastián Sánchez.
- Oct 19 **Carnegie Observatories, Pasadena, US**
 Preparation of the next stage of the Carnegie Supernova Project (CSP).
 Collaborator: Dr. Christopher Burns.
- Jul 19 **Universidade de Lisboa, PORTUGAL**
 Correcting reddening intelligently for cosmological supernova probes (CRISP).
 Collaborator: Dr. Santiago González-Gaitán.
- Nov 18 **European Southern Observatory (ESO), CHILE**
 Executive meeting for the AMUSING survey.
 Collaborator: Dr. Joseph Anderson.
- Oct 18 **University of Southampton, UK**
 SN Ia environments with IFS.
 Collaborators: Dr. Matthew Smith and Prof. Mark Sullivan.
- May 18 **Macquarie University, AUSTRALIA**
 IFS observations with KOALA.
 Collaborator: Dr. Ángel R. López-Sánchez.
- Mar 17 **University of Turku, FINLAND.** *Under the FINCA visitor program.*
 Integral Field Spectroscopy of SN host galaxies.
 Collaborator: Dr. Hanindyo Kuncarayakti, Dr. Seppo Matila.
- Feb 17 **University of Berkeley, US**
 Type II supernova cosmology.
 Collaborator: Dr. Thomas de Jaeger.
- Apr 2013 **Departamento de Astronomía, Universidad de Chile, CHILE**
 Core-collapse and type Ia SNe environmental studies.
 Collaborators: Dr. Joseph Anderson
- Feb 2007 **Fermi National Laboratory (FNAL), US**
 Studies related to DES CCD characterization.
 Supervisors: Dra. Brenna Flaugher and Dr. Juan Estrada

Other merits

- Regular reviewer for journals: ApJL, ApJ & AJ (US), MNRAS (UK), JCAP (UK/IT).
- Feb 23 Expected Bachelor in Economics, UAB (229/240 credits passed. Only missing TFG).
- May 21 Reviewer for the Hubble Space Telescope Cycle 29 proposals.
- 2020-21 ESO OPC Panel member for periods P106, P108 (P107 cancelled), and P109.

Apr 20 *Profesor Contratado Doctor* credential awarded from the ANECA.
 Oct 19 Reviewer for the Hubble Space Telescope Cycles 26 and 27 Mid-cycle proposals.
 May 19 University of Pittsburg Center for the Integration of Research, Teaching, and Learning (CIRTL) course on *Diversity in the College Classroom*.
 Apr 19 Lecturer (*Lector*) credential issued by the AQU (Catalunya).
 Dec 18 Associate certification from the CIRTL, University of Pittsburgh.
 17 DDT External reviewer for the Spanish Time Allocation Committee (CAT) of the IAC.
 Jul 2016 Member of the Tribunal in Manuel Moreno-Raya PhD thesis defense.
 2016 semA External reviewer for the Spanish Time Allocation Committee (CAT) of the IAC.
 Dec 2015 Tenured assistant professor (*Recerca*) credential issued by the AQU (Catalunya).
 Jun 2011 Training Program for Higher Education Teachers (FDES-UAB).
 Jun 2010 Corrector of University Access Exams (PAU).