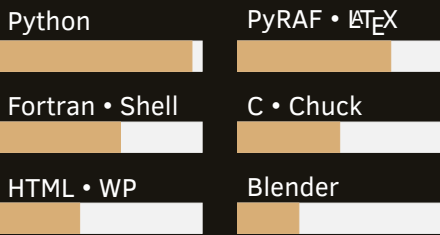


# Rubén GARCÍA-BENITO



- [rgb.iaa.es](http://rgb.iaa.es)
- [rgb@iaa.es](mailto:rgb@iaa.es)
- A-3404-2017
- 0000-0002-7077-308X
- [in/rgbenito](https://in.linkedin.com/in/rgbenito)

## Programming



## Languages



## Keywords



## Education

Selection

- PhD in Physics (Astrophysics and Cosmology), UAM
- MAS in Physics (Astrophysics and Cosmology), UAM
- BA (AsSt) in East Asian Studies (Chinese Specialty), UAM
- BS in Physics (Theoretical Physics), UAM
- Postgraduate Teaching Certificate in Physics and Chemistry, UCM
- Superior degree studies in Harmony, Counterpoint, and Composition
- Medium degree studies in Violin, Vocal Performance and Recorder

## Positions

- 2021- Científico Titular (Senior Scientist), *Instituto de Astrofísica de Andalucía* (IAA-CSIC)
- 2011-2021 Postdoctoral Fellow, IAA-CSIC
- 2009-2011 Postdoctoral Research Fellow, *Kavli Institute for Astronomy and Astrophysics at Peking University* (KIAA) 北京天体物理研究所
- 2005-2009 FPI PhD Fellow at UAM
- 2002-2005 Astronomical Observatory of the UAM

## Grants & Fellowships

Selection

- *Galaxies in 3D with J-PAS and IFS surveys* (231 k€, co-PI)
- *Soninautas: Realidad Virtual y Sonificación* (FECYT, PI, 30 k€)
- ANSO China Visiting Fellowship on Mega-Science Facilities 2022
- *Revealing the fine structure of galaxies in the Local Universe with 3D Spectroscopy*, Junta de Andalucía (180 k€)
- Travel grant for the IAU Symposium 356 held in Addis Ababa (Ethiopia)
- Travel grant for the IAU 358 held in Mitaka-Tokyo (Japan)
- 星系中剧烈的恒星形成过程: 星爆 (*Starburst: Violent star formation*), research grant, China Postdoc Foundation, Ministry of Finance of the People's Republic of China
- FPI-MEC PhD fellowship funded by Spanish Ministry of Education and Science
- MAEC-AECID: mandarin studies at Fudan University 复旦大学 (China)
- ICO-Asia-Pacifico scholarship for mandarin studies at Beijing Foreign Studies University 北京外国语大学 (China)
- *Chinese Traditional Instrument Program* at the Shanghai Conservatory of Music (China), editions 2014, 2015 and 2016 (*yangqin, erhu, dizi, guqin*)

## Research & Academic Service

Selection

- Head of the IAA Extragalactic Department
- Head of the CSIC Galaxy Evolution Group
- Instrumentation projects (GAMAICA, co-PI)
- Participation in over a dozen national (Spain) and international projects
- Research stays, visiting scholar and lecturer at several institutions: KIAA, *Universidade Federal de Santa Catarina* (Brazil), *Nanjing University* (China), NAOC (China), *University of Rwanda* (Rwanda), ...
- Supervisor and co-supervisor of 11 master and 2 PhD students
- Thesis Committee Member in 10 master and PhD thesis
- More than 70 contributions in scientific international conferences, workshops and seminars with more than 40 talks as speaker/lecturer
- Referee for A&A, MNRAS, RASTI, and AJ
- Scientific Committee member of the *Spanish Forum of Asian-Pacific Research Studies* (2014, 2016) and the *International Conference of the Spanish Association of East Asian Studies* (2018-2025)

## Scientific Production



## Education

- 2009 PhD, Physics (Astrophysics and Cosmology), *Universidad Autónoma de Madrid* (UAM)
- 2008 Bachelor's degree in East Asian Studies (China), UAM
- 2005 DEA of Astrophysics and Cosmology, UAM
- 2002 Bachelor's degree in Physics (Theoretical Physics), UAM

## Postgraduate

- 2004 Postgraduate Teaching Certificate in Physics and Chemistry, *Universidad Complutense de Madrid* (UCM)

## Positions

- 2021- Científico Titular (Senior Scientist), *Instituto de Astrofísica de Andalucía* (IAA-CSIC)
- 2019-2021 Severo-Ochoa Postdoctoral Fellowship, *Instituto de Astrofísica de Andalucía* (Spain)
- 2011-2019 Postdoctoral Fellowship, *Instituto de Astrofísica de Andalucía* (Spain)
- 2009-2011 Postdoctoral Research Fellow, *Kavli Institute for Astronomy and Astrophysics at Peking University* 北京大學科維理天文與天體物理研究所 (China)
- 2005-2009 FPI PhD Fellow at *Universidad Autónoma de Madrid*
- 2002-2005 Astronomical Observatory of the *Universidad Autónoma de Madrid*

## Grants & Fellowships

- 2023-2026 *Galaxies in 3D with J-PAS and IFS surveys: Tracing the role of star formation and environment in galaxy evolution* (PID2022-141755NB-I00, co-PI, 231 k€)
- 2024-2025 *Soninautas: Realidad Virtual y Sonificación* (FECYT, FCT-23-19041, PI, 30 k€)
- 2023 SO-IAA Outgoing visits
- 2022 Alliance of International Science Organizations (ANSO) Visiting Fellowship on Mega-Science Facilities 2022 (ANSO-VF-2022-01)
- 2020 *Revealing the fine structure of galaxies in the Local Universe with 3D Spectroscopy*, P18-FRJ-2595, Junta de Andalucía (180 k€)
- 2019 Travel grant for the IAU Symposium 358, Mitaka-Tokyo (Japan)
- 2019 Travel grant for the IAU Symposium 356, Addis Ababa (Ethiopia)
- 2018 National Stage Arts and Music Institute (INAEM) international tour grant [B2.64](#)
- 2010-2011 星系中劇烈的恆星形成過程: 星爆 (*Starburst: Violent star formation*): 1-year research grant, China Postdoc Foundation, Ministry of Finance of the People's Republic of China
- 2005-2009 FPI-MEC predoctoral fellowship associated with the project AYA 2004-08260-C03 funded by Spanish Ministry of Education and Science (MEC)
- 2007 Grant from the Spanish Ministry of Foreign Affairs and Co-operation and the Spanish Agency for International Development Cooperation (MAEC-AECID) for mandarin studies at *Fudan University* 復旦大學, China

- 2005 Asian-Pacific scholarship from the ICO Foundation (Spanish Ministry of Economy and Treasury) for mandarin studies at *Beijing Foreign Studies University* 北京外国语大学, China
- 2002-2005 Postgraduate training grant from the Astronomical Observatory of the UAM

## Participation in Research Projects

- 2023-2026 *Galaxies in 3D with J-PAS and IFS surveys: Tracing the role of star formation and environment in galaxy evolution* (PID2022-141755NB-I00, co-PI) funded by MINECO
- 2020-2023 *Galaxies in 3D and their integrated properties: Synergies between J-PAS/J-PLUS and IFS surveys* (PID2019-109067GB-I00) funded by MINECO
- 2017-2019 *Galaxies in 3D across the Universe: synergy between IFS and multi-band panoramic surveys* (AYA2016-77846-P) funded by MINECO
- 2014-2016 *CALIFA-PopStar: un legado andaluz universal* (P12-FQM-2828) funded by Junta de Andalucía
- 2015-2016 *Dissecting galaxies in space and time: Clues for galaxy formation and evolution* (AYA2014-57490-P) funded by MINECO
- 2011-2014 *Violent star formation: The interplay between stars and gas* (AYA2010-15081) funded by Spanish National Plan for Astronomy and Astrophysics
- 2010-2013 发射线气体星云的深度分光观测和三维数值模拟研究及相关原子参数计算 (*Deep spectroscopic observations of emission line nebulae, 3D numerical simulations and atomic data calculations*), funded by National Natural Science Foundation of China (NSFC)
- 2010-2012 *DSS-GAC: A digital Sky Survey of the Galactic Anti-Center*, funded by National Natural Science Foundation of China (NSFC, ref. 10933001)
- 2005-2010 *Estallidos de Formación Estelar en Galaxias* (AYA 2004-08260-C03, AYA 2007-67965-C03) funded by Spanish National Plan for Astronomy and Astrophysics
- 2007-2012 *Consolider-Ingenio 2010: First Science with GTC* funded by the Spanish Ministry of Education and Science
- 2005-2009 ASTROCAM: Astrophysics network of the Autonomous Community of Madrid (S-0505/-ESP/000237)

## International Research Consortia

- 2020- CAVITY (Calar Alto Void Integral-field Treasury survey). Project Data scientist and member of the Board
- 2019- J-PAS (Javalambre Physics of the accelerating universe Astronomical Survey)
- 2019- 4MOST-StePS (A Stellar Population Survey using 4MOST)
- 2017- WEAVE. WEAVE-Apertif Survey Builder
- 2012-2017 CALIFA (Calar Alto Legacy Integral Field Area) survey. CALIFA Pipeline developer for DR2 and DR3. IAA-UFSC stellar and gas population analysis pipeline developer/manager

## Instrumentation Projects

- 2020-2021 Joint PI of the GALaxy MAPPING Instrument at Calar Alto (GAMAICA). Feasibility study (co-PI: C.J. Walcher, AIP)

## Scientific Production Summary

Full list of  
Publications,  
Communications,  
Outreach, and  
Proposals  
at the end



### Positive evaluations

3 quinquennia (quinquenios; 2007-2011, 2012-2017, 2018-2022)

2 sexennia (sexenios; 2008-2013, 2014-2020)

## Visiting Scholar

July-Oct 2024	<i>National Astronomical Observatories of the Chinese Academy of Sciences</i> (NAOC, China)
Aug-Oct 2023	<i>National Astronomical Observatories of the Chinese Academy of Sciences</i> (NAOC, China)
Oct-Nov 2019	<i>Nanjing University</i> (China)
Aug-Sept 2018	<i>University of Rwanda</i> (Rwanda)
Sep 2017	<i>Nanjing University</i> (China)
Sept-Oct 2016	<i>University of Rwanda</i> (Rwanda)
Oct-Nov 2015	<i>Universidade Federal de Santa Catarina</i> (Florianópolis, Brazil)
Sept-Dec 2008	<i>The Kavli Institute for Astronomy and Astrophysics at Peking University</i>
Feb 2007, Apr & Nov 2006	<i>Instituto de Astrofísica de Andalucía</i> (IAA)

## Teaching

Apr 2024	<i>Sonificación de datos: Explorando la intersección entre ciencia y arte</i> , Cátedra Miguel Ríos, Universidad de Granada (UGR)
May 2023	<i>Diego de Pantoja y la música como instrumento de diplomacia en la Ciudad Prohibida</i> (ss. XVII-XVIII), Research Seminar of the Doctoral Studies of the Department of Art and Musicology, Universidad Autónoma de Barcelona (UAB)
Oct 2022	<i>Analysis of integral-field spectroscopic data</i> , Research Seminar of the Master in Astrophysics, Universidad Autónoma de Madrid (UAM)
Sept 2022	<i>Viaje sensorial a lo largo de la Ruta de la Seda</i> , Seminario Internacional. Universidad Permanente de la Universidad de Alicante
Nov 2021	<i>Analysis of integral-field spectroscopic data</i> , Research Seminar of the Master in Astrophysics, Universidad Autónoma de Madrid (UAM)
2020	Certification for <i>Profesor Contratado Doctor</i> (PCD 2019-12941), <i>Profesor Ayudante Doctor</i> (PAD 2019-12942) and <i>Profesor de Universidad Privada</i> (PUP 2019-12943) by the Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)
Oct 2019	<i>Introduction to Python</i> , Student training, Ethiopian Space Science and Technology Institute (ESSTI), Addis Ababa (Ethiopia)
Sept 2018	<i>Encuentro de Músicas de Asia</i> , Universidad Internacional Menéndez Pelayo, Palacio de la Magdalena (Santander)
Aug-Sept 2018	<i>School on Long-slit Spectroscopy</i> , University of Rwanda (master students of Rwanda, Uganda, and Kenya)
Nov 2017	<i>Integral Field Spectroscopy</i> , Research Seminar of the Master in Astrophysics, UAM

Sep 2017	<i>Integral Field Spectroscopy, stellar populations and interstellar medium</i> , Master advanced course, Nanjing University (China)
Nov 2016	<i>2nd SELGIFS Advanced School on Integral-Field Spectroscopic Data Analysis</i> , UAM
Sep-Oct 2016	<i>School of High Energy Astrophysics and Spectroscopy</i> , University of Rwanda (master students of Rwanda and Uganda)
July 2013	<i>Guillermo Haro 2013 Workshop • Galaxy structure and evolution through Integral Field Spectroscopy: the next generation surveys</i> , INAOE (México)
2002-2005	<i>Astrophysics II</i> (Lab), Universidad Autónoma de Madrid

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## Supervising

### PhD

2021-2025	Ana María Conrado Pérez (PhD thesis), Universidad de Granada (co-supervisor: R. M. González Delgado)
2018-2022	Ginés Martínez Solaeche (PhD thesis), Universidad de Granada (co-supervisor: R. M. González Delgado)

### Master and undergraduate

2024	Mario Hernán Muñoz Riffo (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2022	Didac Invernón Campoy (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2021	Silvia García Soto (Final Degree Project, TFG), Universidad de Granada (co-supervisor: Isabel Pérez)
2021	Aitor Elorrieta Alberdi (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2020	Ana María Conrado Pérez (Final Degree Project, TFG), Universidad de Granada (co-supervisor: Isabel Pérez)
2020	Raúl González Díaz (master thesis, TFM), Universidad de Granada (co-supervisor: Lluís Galbany)
2020	Jesús Javier González Padilla (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2019	Borja Montoro Molina (master thesis, TFM), Universidad de Granada (co-supervisor: I. Pérez Martín)
2019	Cándido Crespo (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2018	Ernest Rusingizandekwe (master thesis), University of Rwanda (co-supervisor: Pheneas Nkundabakura)
2017	Iñigo Pérez Mérové-Pierre (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2017	Hugo López Pérez (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)
2016	Naiara Fuentemilla (master thesis, TFM), Universidad Internacional de Valencia (co-supervisor: E. Pérez-Montero)

### Mentoring

2023	Sumin Wang 王苏敏 (summer internship), Nanjing University (supervisor: Zhiyuan Li)
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- 2018-2022 Zongnan Li 李宗男 PhD. *Galactic Circumnuclear Environments in M31 and M81: A Multi-wavelength, High-definition Study*. Sup: Zhiyuan Li
- 2018-2020 Xue Ge 葛雪 PhD. *The star formation and quenching mechanisms in early type galaxies*. Sup: Qiusheng Gu
- 2015-2017 Rafael López Fernández PhD. *A multi-frequency study of the SFHs of galaxies in the integral field area survey CALIFA*. Sups: R.M. González Delgado, R. Cid Fernandes
- 2014-2016 Javier Casado PhD. *A new perspective on the evolution of galaxies: from global to local scales*. Sups: Y. Ascasíbar, A. Díaz
- 2016 Anqi Li 李安琪 (master student, internship), Nanjing University (supervisor: Zhiyuan Li)

## Committee Service

- 2025 Member of the Scientific Committee of the *IV International Conference of the Spanish Association of East Asian Studies*, 4-6 June, Granada (Spain)
- 2024 Member of the Scientific Organizing Committee (Chair) of the mini-symposium *Exploring New Horizons: Transforming Astronomy Through Sonification and Multidisciplinary Innovation* at the 16th Scientific Meeting of the SEA, 15-19 July, Granada (Spain)
- 2024 Member of the Scientific Organizing Committee of the symposium *Galaxy surveys: Star formation, environment and AGN feedback as drivers of galaxy evolution* at the 16th Scientific Meeting of the SEA, 15-19 July, Granada (Spain)
- 2024 Thesis Committee Member (substituted due to agenda conflicts). José Luis Tous Mayol, Ph.D. *Disentangling the Formation Path of Lenticular Galaxies*, Universitat de Barcelona
- 2015-2023 Member of the Time Allocation Committee (TAC) of the Sierra Nevada Observatory
- 2023 Member of the Scientific Committee of the *III International Conference of the Spanish Association of East Asian Studies*, 7-9 June, Salamanca (Spain)
- 2023 Substitute Thesis Committee Member. Pablo Corcho Caballero, Ph.D. *Galactic ageing and quenching*, Universidad Autónoma de Madrid
- 2023 Substitute Thesis Committee Member. Enrique Sáez Palazón, Ph.D. *Diego de Pantoja, una experiencia de encuentro multidisciplinar con China*, Universidad Pontificia de Comillas
- 2022 Substitute Thesis Committee Member. Laura Hermosa Muñoz, Ph.D. *Outflows in Low Luminosity Active Galactic Nuclei*, Universidad de Granada
- 2021 Master Thesis Committee Member. Alejandra Zaavik Lugo Aranda. *Efectos de la resolución de las propiedades de las regiones HII extragalácticas con MUSE*. UNAM (virtual)
- 2020 Member of the Scientific Committee of the *II International Conference of the Spanish Association of East Asian Studies*, 27-29 May, Madrid (Spain)
- 2019 External Examiner. Emmanuel Uwitonze, master thesis. *Determination of the D4000 of potential blazar candidates among the EGRET unidentified gamma-ray sources*, Mbarara University of Science and Technology (Uganda)
- 2018 Member of the Scientific Committee of the *I International Conference of the Spanish Association of East Asian Studies*, 20-22 June, Málaga (Spain)
- 2016 Thesis Committee Member. Javier Casado, Ph.D. *A new perspective on the evolution of galaxies: from global to local scales*, Universidad Autónoma de Madrid (Spain)
- 2016 Member of the Scientific Committee of the *5th Spanish Forum of Asian-Pacific Research Studies (FEIAP 2016)*, 27-28 June, Barcelona (Spain)
- 2016 *Exame de Qualificação ao Doutorado* Committee Member. Eduardo Alberto Duarte Lacerda. *Poeira, metalicidade e formação estelar: estimando fração de gás*, Universidade Federal de Santa Catarina (Florianópolis, Brasil)

- 2015 Thesis Committee Member. André Luiz de Amorim, Ph.D. *Espectroscopia 3-D de galáxias: síntese de populações estelares e morfologia*, Universidade Federal de Santa Catarina (Florianópolis, Brasil)
- 2014 Member of the Scientific Committee of the *4th Spanish Forum of Asian-Pacific Research Studies (FEIAP 2014)*, 6-7 February, Universidad de Granada (Spain)
- 2012 Substitute Thesis Committee Member. Vasiliki Petropoulou, Ph.D. *The chemical history of star-forming galaxies in nearby clusters*, Universidad de Granada
- 2012 Substitute Thesis Committee Member. Marcos Villaverde Aparicio, Ph.D. *Efectos de los cúmulos ionizantes de baja masa en el espectro de regiones HII y galaxias*, Universidad Autónoma de Madrid

## Service Activities

- 2025- Head researcher of the CSIC Galaxy Evolution Group
- 2023- Head of the IAA Extragalactic Department
- 2022-2023 Secretary of the IAA Scientific Board (Claustro Científico)
- 2012- Referee for Astronomy & Astrophysics, *Astronomical Journal*, *Monthly Notices of the Royal Astronomical Society*
- 2012 Local Organizing Committee, CALIFA IV Busy Week, Granada (Spain), 20-23 November, 2012 (50 Attendees)
- 2012 Local Organizing Committee, “Metals in 3D: New insights from Integral Field Spectroscopy”, Granada (Spain), 18-20 April, 2012 (100 Attendees)
- 2010 Local Organizing Committee (co-chair), Summer School and Workshop on Galactic Studies with the LAMOST Surveys: “Chemistry, dynamics and structure of the Milky Way”, Beijing (China), 5-23 July, 2010 (150 Attendees)

## Membership


- Sociedad Española de Astronomía (SEA)
- International Astronomical Union (IAU). Working groups: Astronomy for Equity and Inclusion (Inclusive Outreach)

## Media & Press releases

- 2025 *Sonificación de datos: una nueva forma de estudiar el universo desde Granada*. Press release in different media (ABC, EuropaPress, Cadena Ser, ...) on the RASTI paper Garcia-Riber et al. (2024)
- 2024 *Rubén García Benito: Astrofísico, Músico y Sinólogo*. Interview Dr. Jiménez Acosta's podcast “Aprendiendo del Experto”
- 2024 *Un estudio muestra 100 galaxias del 'universo vacío' observadas desde Calar Alto*. CAVITY's first public data release
- 2024 *Sonificación y astronomía*. Interview on sonification in “Efervescencia” on Radio Galega (Noite Efervescente 2024)
- 2023 *Las galaxias en los grandes vacíos del universo crecen más despacio que el resto*. Press release based on the Nature paper Domínguez-Gómez et al. (2023)
- 2023 *Audio Astronomy Unlocks a Universe of Sound*. Interview for an article on sonification in *Scientific American*
- 2022 *La sonificación: la herramienta que permite escuchar los ecos del universo*. Article in *elDiario.es* featuring CosMonic
- 2022 *Música europea en la Ciudad Prohibida*. Interview in “Longitud de onda” Spanish National Radio (Radio Clásica, RNE)

- 2022 *El clave del emperador*. Interview in “Café Zimmermann” Spanish National Radio (Radio Clásica, RNE)
- 2021 *Todos los Tonos y Ayres e Íliber Ensemble*. Interview in “La dársena” Spanish National Radio (Radio Clásica, RNE)
- 2020 *Promising scientific and technological new developments for Calar Alto*. GAMAICA conceptual design approval press release
- 2020 *Astronomers Observe Relativistic Jet from Two Merging Spiral Galaxies*. Press release based on Paliya et al. (2020) in more than twenty international media
- 2020 *175 Tweets para entender el mundo que te rodea*. Muy Interesante Tweets (number 1), short interview based on Paliya et al. (2020) on commercial science magazine
- 2019 *CosMonic*. Interview about CosMonic project in “A noite é necesaria”
- 2019 *Sonidos y sonificaciones del espacio*. Interview about sonifications in “La casa del sonido” Spanish National Radio program (Radio Clásica, RNE)
- 2018 *A new instrument for studying galaxies in the local universe from Calar Alto*. New instrumentation for Calar Alto press release
- 2018 *Conciencia program TV*. Interview on TV (Canal Sur) based on Zhu et al. (2018)
- 2018 *Una biblioteca de historias galácticas a partir del movimiento de sus estrellas*. Press release in different media on the Nature Astronomy paper Zhu et al. (2018)
- 2017 *Música y Ciencia en la Antigua China*. Interview in “Longitud de onda” Spanish National Radio (Radio Clásica, RNE)
- 2016 *CALIFA galaxy study releases dataset online*. CALIFA’s third public data release
- 2015 *History of Andromeda galaxy studied through stellar remains*. Press release based on Fang et. al (2015)
- 2014 *CALIFA’s second public data release*. RTVE, ABC, ...
- 2013 *CALIFA unveils the evolution of galaxies in space and time*. Press release on one of the most popular CALIFA results

## Technical Skills

Operating Systems	Unix, Linux, Macintosh (Mac OS X), Windows (XP/Vista). User and administrator level
Programming	
HPC	GRID extensive user, Dirac
Astrophysics & visualization	IRAF/PyRAF, Matplotlib, Blender, PGPLOT, DS9, XMGrace, IGI
Others	LaTeX, WordPress, Joomla, Drupal, Gimp, Photoshop, OpenOffice, Microsoft Office, MuseScore, Sibelius

## Software development

SHIFU	Python module to measure emission and absorption lines in spectroscopic data, including Integral Field Spectroscopy (IFS)
PyJIN	Python module to derive gas physical properties, ionic and elemental abundances for Planetary Nebulae and star forming regions
ViewCube	Python-based tool for interactive datacube visualization and sonification-based auditory exploration, including RSS and PyCASSO format
reduceccd	Basic Image CCD reduction package
QBICK	Python module for the pre-processing of IFS data for PyCASSO



PyCASSO Python module for the analysis of stellar populations with IFS data (contributed)

## Languages

Spanish	★★★★★	Native	Italian • French	★★★☆☆
English	★★★★☆		Modern Standard	★☆☆☆☆
Chinese	★★★★☆	HSK5	Arabic • German	

## Courses

- 2024 *Protocolo de prevención e intervención frente al acoso sexual y/o por razón de sexo en el CSIC*. CSIC, 2024 (4h)
- 2023 *Curso online de igualdad de género en ciencia*. SEA, 2023 (16.5 h)
- 2023 *IAA-CSIC Severo Ochoa Basics of Neural Networks Workshop*. Granada, May 16-17, 2023 (10h)
- 2023 *IAA-CSIC Severo Ochoa SKA Open Science School*. IAA, May 8-10, 2023 (18h) 🐾
- 2022 *IAA-CSIC Severo Ochoa Advanced School on Galaxy Evolution (GALEVOL 2022)*. Granada, May 23-27, 2022 (30h)
- 2022 *Curso básico de igualdad de género (Basic course in gender equality)*. MCIN/CSIC, 28 March - 6 April, 2022 (15 h)
- 2021 *2nd IAA-CSIC Severo Ochoa School on Statistics: Data Mining and Machine Learning (SOSTAT 2021)*. Granada, 29 November - 3 December, 2021 (30h)
- 2020 *Introducción de análisis de género en la investigación (IAGI; Introduction to gender analysis in research)*. IAA-CSIC, 24 June - 25 July, 2020 (40 h)
- 2020 *Preguntas fundamentales sobre el acceso abierto a la ciencia - Open Access (Fundamental questions about open access on science)*. UGR, 17 November, 2020 (2 h)
- 2019 *Técnicas de divulgación - Desgranando Ciencia 6 (Outreach techniques)*. IAA-CSIC, 20-21 November, 2019 (13 h)
- 2019 *Seminario de preparación de propuestas para la Convocatoria de Acciones Individuales Marie Skłodowska-Curie Call H2020-MSCA-IF-2019*. CSIC, 13 June, 2019 (2h)
- 2019 *Seminario de preparación de propuestas al Consejo Europeo de Investigación ERC*. CSIC, 23 April, 2019 (2h)
- 2018 *Modelado y animación 3D en Blender (3D modeling and animation in Blender)*. CSIC, 13 March - 20 April, 2018 (38h)
- 2012 *Hermeticism, Alchemy and Magic (History of Science)*. Universidad de Granada, 9-23 November, 2012 (42 h)

## Other studies

Superior degree studies in Harmony, Counterpoint and Composition

Medium degree studies in Violin, Erhu (二胡), Recorder and Vocal Performance

Elementary degree studies in Harpsichord

Course *Music & Cinema* given by composer José Nieto

Early Music Morella 2017, Academia y Festival Internacional de Música Medieval y Renacentista *Teoría y Praxis de la Música Antigua*, Eduardo Sohns, IV Festival Molina Música Antigua (MOMUA 2020)

*La percusión en la época de Alfonso X: iconografía, estética reconstrucción y práctica interpretativa*, Massimiliano Dragoni, MOMUA 2021

*Tonos y modos: herramientas para la interpretación de la música del siglo XVI*, Samir Suez, MOMUA 2021

## Other activities (selection)

Chinese studies  
research, outreach  
and activities\*

- [The Moon's Silence: Music and Word under the Chinese Sky](#), threefold musical, poetic and visual narrative performative show on the history of science and philosophy of China and Europe (Festival of Music and Science, III AEEAO)
- *Los grandes inventos chinos*, article for [Historia National Geographic N148](#) (2016)
- *Science and Technology in Ancient China* (Confucius Institute of Madrid, Granada and Barcelona, IAA-CSIC, ...)
- *Astronomy and Music in Ancient China* (Ciudad de las Artes y las Ciencias)
- *Mountain and Water: instruments and traditional chinese music*, in collaboration with Abigail Horro (Confucius Institute of Granada, Barcelona and Madrid)

## Music

- Idea, research, musician, and direction of the program [Daughter of Silk: Caterina Ilioni](#), presented in a August-September 2024 China Tour organized by [Instituto Cervantes of Beijing](#)
- Artistic project, liner notes, musical co-director and musician in *The Emperor's Harpsichord: Diego de Pantoja and his legacy* CD (Discography: GR 860-2021)
- Idea, research, musician, and co-direction of the program [The Emperor's Harpsichord: Diego de Pantoja and his legacy](#), presented in a May-June 2018 China Tour organized by [Instituto Cervantes](#) and the Embassy of Spain in Beijing
- Consultant and musician for the history documentary *España, la primera globalización* by award-winning director José Luis López Linares
- Member of the Organizing Committee of the II and III Festival de Música Antigua de Granada (MAG 2017, MAG 2018)
- Co-direction, musician, and video producer of the program [Musafir, Viajeros Medievales](#) for the [closing concert](#) of the II Festival de Música Antigua de Granada
- Musician in *Bóreas Ventus II* CD (Discography: GR 700-2019)
- *Poetry and the Moon*, VI, VIII, X, and XIV chinese poetry reading (Confucius Institute of Granada)
- Traditional Chinese Music project [Silk & Bamboo](#), duo with Abigail Horro
- Ancient Chinese Music project [Todos los Tonos y Ayres](#), duo with Abigail Horro
- I & II Festival de Música y Ciencia
- XXIV and XXVI Festival Internacional de Arte Sonoro y Música Electroacústica
- *Tempus est iocundum, La Escucha Errante 2021*, Research, Sound Creation and Electroacoustic Encounters
- *De la nada al todo, La Escucha Errante 2022*, Research, Sound Creation and Electroacoustic Encounters
- Second violin section in the Symphonic Orchestra of Alicante (OSA)

## Science outreach

- [CosMonic](#) sonification project for inclusive astronomy
- *CALIFA, City of Light*, production of 3D Animation for the CALIFA Data Release 3 (iUNESCO International Year of Light)
- *CALIFA's mandala*, artistic representation of the 3D spectroscopy CALIFA survey data
- *CALIFA: El pasado de las galaxias*, documentary (english subtitles) as part of the series *Deconstructing Light*
- Project Introduction to Research and Innovation in Secondary Schools, PIISA 2014 (FECYT, Spanish Ministry of Science and Innovation)
- ESCIVE 2009 (FECYT, Spanish Ministry of Science and Innovation)

## Voluntary service

International NGO *Service Civil International* volunteer. One-month stays in Austria, Hungary and Germany

## Publications & Communitacions

### Journal Papers

1. A. García Riber, **R. García-Benito**, F. Serradilla. *Interactive multimodal integral field spectroscopy*. RAS Techniques and Instruments, 3, 748 (2024)
2. R. Sánchez-Ramírez et al. (including **R. García-Benito** 27/49). *Early photometric and spectroscopic observations of the extraordinarily bright INTEGRAL-detected GRB 221009A*. Astronomy and Astrophysics, 692, A3 (2024)
3. M. I. Rodríguez et al. (including **R. García-Benito** 14/24). *CO-CAVITY project: Molecular gas and star formation in void galaxies*. Astronomy and Astrophysics, 692, A125 (2024)

- 4 M. I. Arnaudova et al. (including **R. García-Benito** 17/65). *WEAVE First Light Observations: Origin and Dynamics of the Shock Front in Stephan's Quintet*. Monthly Notices of the Royal Astronomical Society, 535, 2269 (2024)
- 5 G. Torres-Ríos et al. (including **R. García-Benito** 13/18). *Effect of the local and large-scale environment on the star formation histories of galaxies*. Astronomy and Astrophysics, 691, A341 (2024)
- 6 S. Lu, Q. Gu, Y. Gao, Y. Shi, L. Zhou, **R. García-Benito** and 5 co-authors. *PGC 44685: A Dwarf Star-forming Lenticular Galaxy with a Wolf-Rayet Population*. Astrophysical Journal, 976, 140 (2024)
- 7 **R. García-Benito** and 42 co-authors. *CAVITY: Calar Alto Void Integral-field Treasury surveyY: I. First public data release*. Astronomy and Astrophysics, 691, A161 (2024)
- 8 S. F. Sánchez, **R. García-Benito** and 25 co-authors. *The CAVITY Project: Spatially-Resolved and Characteristic Properties of Galaxies Derived Using pyPipe3D*. Revista Mexicana de Astronomía y Astrofísica, 60, 323 (2024)
- 9 J. Anghopo et al. (including **R. García-Benito** 27/49). *Retrieval of the physical parameters of galaxies from WEAVE-StePS-like data using machine learning*. Astronomy and Astrophysics, 690, A198 (2024)
- 10 I. Pérez, S. Verley, L. Sánchez-Menguiano, T. Ruiz-Lara, **R. García-Benito** and 53 co-authors. *CAVITY, Calar Alto Void Integral-field Treasury surveyY and project extension*. Astronomy and Astrophysics, 689, A213 (2024)
- 11 G. Martínez-Solaache, **R. García-Benito** and 5 co-authors. *Exploring galaxy properties of eCALIFA with contrastive learning*. Astronomy and Astrophysics, 688, A160 (2024)
- 12 L. A. Díaz-García, R. M. González Delgado, **R. García-Benito** and 22 co-authors. *The miniJPAS survey: Evolution of luminosity and stellar mass functions of galaxies up to  $z \sim 0.7$* . Astronomy and Astrophysics, 688, A113 (2024)
- 13 A. M. Conrado, R. M. González Delgado, **R. García-Benito** and 28 co-authors. *The CAVITY project: The spatially resolved stellar population properties of galaxies in voids*. Astronomy and Astrophysics, 687, A98 (2024)
- 14 I. Ramos & **R. García-Benito**. *El invento de Diego de Pantoja (1571-1618) para el aprendizaje del chino mediante partituras musicales: Method for the learning of Chinese through musical staffs invented by Diego de Pantoja (1571-1618)*. Araucaria, 26, 155 (2024)
- 15 D. Ortega-Alonso, E. Pérez-Montero, J. F. Gibaja, **R. García-Benito**, M. Mozota, G. Remolins. *Narrativas transmedia y activismo, ¿ingredientes secretos para una divulgación científica inclusiva?*. Arte, Individuo y Sociedad, 36, 687-699 (2024)
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- 18 S. F. Sánchez, J. K. Barrera-Ballesteros, L. Galbany, **R. García-Benito**, E. Lacerda, A. Camps-Fariña. *The Calar Alto Legacy Integral Field Area Survey: Spatial Resolved Properties*. Revista Mexicana de Astronomía y Astrofísica, 60, 41 (2024)
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- 20 S. F. Sánchez, L. Galbany, C. J. Walcher, **R. García-Benito**, J. K. Barrera-Ballesteros. *The Calar Alto Legacy Integral Field Area survey: extended and remastered data release*. Monthly Notices of the Royal Astronomical Society, 526, 5555 (2023)
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\*For a more detailed outline of activities, check the official web of *Todos los Tonos y Ayres*, *Silk & Bamboo*, and *Vermell Ensemble*.

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- 54 X. Ge, Q.-S. Gu, **R. García-Benito**, M.-Y. Xiao, Z.-N. Li. *The Physical Properties of SO Galaxy PGC 26218: The Origin of Starburst and Star Formation.* Astrophysical Journal, 889, 132 (2020)
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 *Diego de Pantoja (1571-1618): embajador musical en la Ciudad Prohibida*. III Congreso Internacional de la Asociación Española de Estudios de Asia Oriental (AEEAO), Salamanca, 7-9 June, 2023

 *Diego de Pantoja (1571-1618): embajador musical en la Ciudad Prohibida*. "Musical Crossroads" (Encrucijadas musicales), V Congress of the Commission "Music and Contexts in the Medieval and Renaissance Iberian World" (MEDyREN) of the Spanish Society of Musicology, Zamora, 14-15 April, 2023

- 💬 *The role of culture and aesthetics in the sonification of astronomical data.* Plenary talk at “The Audible Universe 2”, Lorentz Center (Oort), Leiden (The Netherlands), 12-16 December, 2022
- 💬 *The CAVITY reduction pipeline.* “2nd annual CAVITY meeting”, 23-24 June, 2022
- 💬 *Music and astronomy: creating synergies to improve mental wellbeing.* “Educational Psychology and Astronomy for Mental health and Wellbeing”, Ulaanbaatar (Mongolia) & virtual, May 19-20, 2022
- 💬 *Diego de Pantoja (1571-1618): from apprentice in Macau to music ambassador at the Forbidden City.* “5th Lisbon Conference: Chinese Music and Musical Instruments”, Lisbon (Portugal), May 9-10, 2022
- 💬 *GAMAICA, a concept for an integral field spectrograph at Calar Alto.* “Encuentro RIA-Tec2Space: Instrumentación astronómica en España”, Madrid (Spain), 19-22 April, 2022
- 💬 *PyJIN 金: direct method abundances for large surveys.* “Large-Volume Spectroscopic Analyses of AGN and Star Forming Galaxies in the Era of JWST” (online), March 29 - April 1, 2022
- 💬 *CAVITY Data Reduction: Current Status.* “Mid-year CAVITY meeting” (online), 24-25 June, 2021
- 💬 *Spatially resolved stellar populations and gas studies in the advent of the next generation of IFU surveys.* Severo Ochoa - IAA (SO-IAA) conference (online), 25-26 March, 2021
- 💬 *Caving the void: from observations to science data products.* “CAVITY kick-off Virtual meeting”, 10 Sep, 2020
- 💬 *Seshat: The reduction pipeline for MAAT.* “Panoptic spectroscopy of our universe with OSIRIS+MAAT at GTC”, Virtual meeting, 5 May, 2020
- 💬 *Galaxy evolution in 3D: Lessons from optical Integral Field Spectroscopy.* “Present and Future of Optical and Infrared Astronomy: Synergies and Collaboration between China and Spain”, Beijing (China), 20-25 October, 2019
- 💬 *Galaxies in 3D: Sinergy between IFU, IFU-like and SKA.* “Spain in SKA!”, Granada (Spain), 10-11 June, 2019
- 💬 *The Local Universe from Calar Alto (LUCA) with CASE.* “Encuentro RIA-SpaceTec: Instrumentación astronómica en España”, Madrid (Spain), 3-5 October, 2018
- 💬 *Spatially-resolved color–mass-to-light rations in the CALIFA survey.* “XIII Scientific Meeting of the Spanish Astronomical Society (SEA)”, Salamanca (Spain), 16-20 July, 2018
- 💬 *The CALIFA survey: Reducing the local universe to data cubes.* The Second WEAVE All-Hands Meeting, Groningen (The Netherlands), 1-3 November, 2017
- 💬 *The CALIFA survey.* “2nd SELGIFS Advanced School on Integral-Field Spectroscopic Data Analysis”, Universidad Autónoma de Madrid, Spain (Madrid), November 21-25, 2016
- 💬 *Auto-consistent metallicity and star formation history of Blue Compact Dwarf Galaxies: NGC 6789 as a pilot study.* “Resolved And unresolved Stellar PopUlaTIoNs”, ESO, Garching (Germany), October 13-17, 2014
- 👥💬 *CALIFA survey: Introduction & data structure.* IVOA Interop Meeting, European Space Astronomy Centre, Madrid (Spain), 19-23 May, 2014
- 💬 *The radial structure of M/L: CALIFA results.* Conference “Galaxies meet GRBs at Cabo de Gata”, Las Negras, Almeria (Spain), 23-27 September, 2013
- 💬 *Spatially resolved M/L across the CMD: CALIFA results.* Guillermo Haro 2013 Workshop, Tonantzintla, Puebla (Mexico), 15-26 July, 2013
- 💬 *The evolution of galaxies resolved in space and time: an inside-out growth view from the CALIFA survey.* Conference “The Role of Bars in Galaxy Evolution”, Granada (Spain), 13-17 May, 2013
- 💬 *Auto-consistent metallicity and star formation history of the nearest Blue Compact Dwarf Galaxy.* IX Workshop of the Coordinated Project “Estallidos de Formación Estelar en Galaxias”, Granada (Spain), 16-17 April, 2012
- 💬 *Metallicity and star formation history of HII galaxies.* “The Frontier on Interstellar Medium: 40th Anniversary on the Discovery of CO in ISM” (ISM2010), Beijing (China), 6-10 June, 2010
- 💬 *电离氢区体系的 3D 分光: NGC6789 的外盘 (3D Spectroscopy of HII complexes: the outer disk of NGC 6946).* “2010 Annual Conference of Chinese Astronomical Society”, Nanning (China), 1-3 November, 2010
- Posters **R. García-Benito**, E. Pérez, E. Pérez-Montero, R. González Delgado, J. M. Vilchez. *Self-consistent photometric and spectroscopic Star Formation Histories in Dwarf Galaxies.* “The interplay between local and global processes in galaxies”, Cozumel (Mexico), 11-15 April, 2016 
-  **R. García-Benito et al.** IF spectroscopy of HII region complexes in NGC 6946 Conference “Metals in 3D: New Insights from Integral Field Spectroscopy”, Granada (Spain), 18-20 April, 2012

-  **R. García-Benito**, E. Pérez, A.I. Díaz. *HST/WFPC2 observations of a Giant HII region in M101*. IAU Symposium 241 "Stellar Populations as Building Blocks of Galaxies" held 10-16 December 2006 at La Palma (Spain)
- Attendance  *SKA Open Science School*. IAA, 8-10 May, 2023 
-  *VI Meeting of AGN Research in Spain in the Era of the New Observatories*. IAA, 30 January - 1 February, 2023
- En torno a Diego de Pantoja. Vida y obra de un humanista valdemoreño*. Valdemoro, 21-23 April, 2022
-  *The Audible Universe (online)*. Lorentz Center, 30 August - 3 September, 2021 (Invited)
- MAAT Data System workshop (virtual)*. 2-4 March, 2021
- XIV Scientific Meeting (virtual)*. SEA, 13-15 July, 2020
- Planning for 4MOST: towards the 4MOST survey programme (virtual)*. ESO, 9-10 July, 2020
- 2<sup>nd</sup> WEAVE-Apertif meeting*. La Laguna (Spain), 1-3 April, 2019
- The Third WEAVE All-Hands Meeting*. Naples (Italy), 17-20 September, 2018
- 1<sup>st</sup> WEAVE-Apertif meeting*. Universidad de Granada (Spain), 8-10 May, 2018
- Time & Measurement Workshop*. Instituto de Astrofísica de Andalucía (Spain), 6-9 June, 2017
- DIRAC 4 IberGrid Tutorial*. Universitat de Barcelona (Spain), 7 June, 2012
- Summer School and Workshop on Galactic Studies with the LAMOST Surveys: "Chemistry, dynamics and structure of the Milky Way"*. Beijing (China), 5-23 July, 2010
- The Cosmic Odyssey of the Elements*. 23-27 June 2008, Aegina (Greece)
- Seminars *Exploring Cosmic Voids: First Results and Public Data Release from the CAVITY Survey*. National Astronomical Observatories of the Chinese Academy of Sciences (NAOC, September 11th) & Nanjing University (September 13th), 2024
- Unveiling Galaxy Evolution: New Optical Integral Field Spectroscopy Surveys at Spanish Observatories*. Nanjing University (September 7th), Beijing Normal University (September 25th) & National Astronomical Observatories of the Chinese Academy of Sciences (NAOC, September 27th), 2023
- The Eight Sounds: Material, Colour, and Repertoire of the Chinese Instruments*. Universidade NOVA de Lisboa, May 11st, 2022
- Galaxy Evolution in 3D: Lessons from the CALIFA survey and future projects*. Nanjing University, October 30th, 2019
- CALIFA Survey: A panoramic (3D) view of galaxies*. Nanjing University, September 12th, 2017
- CALIFA Survey: A panoramic (3D) view of galaxies*. Universidade Federal de Santa Catarina, November 3rd, 2015
- CALIFA Survey: A panoramic (3D) view of galaxies*. Shanghai Astronomical Observatory (China), July 6th, 2015
- Outreach *Paisajes sonoros de la Ruta de la Seda*. Festival de Música Antigua de Úbeda y Baeza, Úbeda, December 7th, 2024
- Diego de Pantoja (1570-1618): Embajador musical en la Ciudad Prohibida*. Festival Música Sacra Granada, Granada, October 19th, 2024
- ¡Esta galaxia necesita un retoque!*. Espacio\_3, Granada, January 19th, 2024
- El Universo en sonidos: Explorando el mundo a través de la sonificación*. Asociación Astronómica de Sabadell, December 13th, 2023
- Poniendo banda sonora al universo*. Feria del libro de Granada, April 28th, 2023
- De la nada al todo: breve historia de lo inútil*. La Escucha Errante 2022 (Research, Sound Creation and Electroacoustic Encounters). Bilbao, December 4th, 2022
- Tempus est iocundum*. La Escucha Errante 2021. Bilbao, December 4th, 2021
- Astronomy and Music in Ancient China*. Safor, February 10th, 2017
- Astronomy and Music in Ancient China*. Ciudad de las Artes y las Ciencias. Valencia, February 18th, 2016
- Astronomy in Ancient China*. II Festival Cultural Asia-Sevilla. Sevilla, February 6th, 2016
- Chinese Musical Instruments*. Instituto Confucio de Granada. Granada, September 27th, 2015
- 基础天文学 (Fundamentals of Astronomy)*. Shanghai Conservatory of Music. Shanghai, July 23th, 2015
- Science in Ancient China*. Centro Imaginalia. Alicante, April 30th, 2015

- Science in Ancient China*. I Festival Cultural Asia-Sevilla. Sevilla, February 14th, 2015
- Science in Ancient China*. Instituto Confucio de Barcelona. Barcelona, September 23th, 2014
- Science in Ancient China*. Instituto Confucio de Granada. Granada, October 28th, 2013
- Science in Ancient China*. IAA. Granada, May 23rd, 2013
- Del papel a la imprenta: 3000 años de ciencia en China*. Instituto Confucio de Madrid. Madrid, April 24th, 2013
- Outreach papers **R. García-Benito** & A. Horro. *El silencio de la luna: música y palabra bajo el cielo chino*. Sociedad Española de Astronomía, 51, Winter Bulletin 2024
- I. Pérez, S. Verley, L. Sánchez Menguiano, T. Ruiz-Lara & **R. García-Benito**. *Explorando galaxias en vacíos cósmicos: CAVITY y su primera distribución de datos*. Sociedad Española de Astronomía, 51, Winter Bulletin 2024
- A. Iovino et al. (including **R. García-Benito**). *Stellar Population Survey Using 4MOST (4MOST-StePS)*. *The Messenger*, No. 190, 2023
- R. García-Benito**. *El clave del Emperador: tras el legado de Diego de Pantoja*. *Melómano: La revista de música clásica* (ISSN 1136-4939), Vol. 27, N 286 (July-August, 2022)
- S. Benítez, **R. García-Benito** & M. Pović. *Astronomía para el desarrollo: colaboraciones entre España y África*. *Revista Astronomía*, 274 (April 2022)
- R. García-Benito**. *El proyecto CALIFA*. *Información y Actualidad Astronómica* (IAA outreach journal), N49 (2016)
- R. García-Benito**. *Los grandes inventos chinos*. Article for *Historia National Geographic*, N148 (2016)
- S. F. Sánchez & **R. García-Benito**. *El proyecto CALIFA: una visión panorámica de las galaxias del universo local*. *Sociedad Española de Astronomía, Winter Bulletin 2015-2016*

## Proposals/Observational Experience

- Oct-Dec 2024 10-m GTC telescope at La Palma (Spain). *Assessing the Major-Merger Paradigm of M31 through Deep Spectroscopy of Planetary Nebulae* (45 hours, P.I.)
- Dec 2024 WEAVE, La Palma (Spain). *Tracing the Circumnuclear Ionized Gas in M81 with WEAVE* (4h, P.I.)
- May 2024 3.5-m Telescope/PMAS at Calar Alto (Spain). *When A Superwind Meets A Polar Ring* (1 night, P.I.)
- May 2024 3.5-m Telescope/PMAS at Calar Alto (Spain). *With or without jet II: unveiling the origin of relativistic supernovae* (1 night, co-I)
- Oct 2023 ALMA Cycle 10. *ALMA CO-CAVITY: Molecular Gas in Void Galaxies* (40h, co-I)
- Oct 2023 3.5-m Telescope/PMAS at Calar Alto (Spain). *PMAS Deep Spectroscopy and Mapping of the Best Galactic Type Ia SN Candidate* (2 nights, co-I)
- Oct 2023 3.5-m Telescope/PMAS at Calar Alto (Spain). *With or without jet: unveiling the origin of relativistic supernovae* (1 night, co-I)
- May 2022 10-m GTC telescope at La Palma (Spain). *Probing the ionized nuclear outflow in M81* (3 hours DDT, P.I.)
- March 2021 JWST Proposal. Cycle 1, ID. #2344. *Mapping emission and absorption line metallicities onto the same universal scale* (9 hours, co-I)
- Jun 2020 3.5-m Telescope/PMAS at Calar Alto (Spain). *Identification and characterization of the galaxy members of the J-PAS galaxy cluster JPC-2470-1771* (3 hours DDT, P.I.)
- May 2020 4-m Multi-Object Spectroscopic Telescope (4MOST) at Paranal (Chile). *4MOST-StePS (A Stellar Population Survey using 4MOST)* (100K fiber hours in 5 years, co-I)
- Apr 2020 10-m GTC telescope at La Palma (Spain). *Unraveling the Origin of Relativistic Jets with GTC* (8 hours, P.I.)
- March 2020 30m telescope IRAM (Spain). *Mapping molecular gas in the third closest massive spiral galaxy M81* (48 h, co-I)

- March 2020 3.5-m Telescope/PMAS at Calar Alto (Spain). *With or without jet II: the environment of broad-lined supernovae* (2 nights, co-I)
- Sep 2019 3.5-m Telescope/PMAS at Calar Alto (Spain). *With or without jet: shedding light on the origin of GRB-less broad-lined supernovae* (1 night, co-I)
- Apr 2018 MUSE at VLT (Paranal, Chile). *Dynamics and star-formation of nearby gas-rich star-forming dwarf galaxies* (16 hours, Co-I)
- May 2018 3.5-m Telescope/PMAS at Calar Alto (Spain). *Unveiling the stellar population giving rise to super-luminous supernovae with Integral-Field Spectroscopy* (2+2 nights, Co-I)
- Nov 2017 10-m GTC telescope at La Palma (Spain). *A Census of the Extended Halo of M31 Using Planetary Nebulae* (22.5 hours) in collaboration with Peking University and University of Hong Kong
- Nov 2017 3.5-m Telescope/PMAS at Calar Alto (Spain). *A spectroscopic mapping of the circum-nuclear environment in M31 III* (3 nights, in collaboration with Nanjing University)
- Mar 2017 3.5-m Telescope/PMAS at Calar Alto (Spain). *Environmental effects on the ionised gas component of Virgo star-forming dwarf galaxies* (2 nights, co-I)
- Mar 2017 3.5-m Telescope/PMAS at Calar Alto (Spain). *An IFS perspective on the nature of ring galaxies* (3 nights, co-I)
- Oct 2016 3.5-m Telescope/PMAS at Calar Alto (Spain). *A spectroscopic mapping of the circum-nuclear environment in M31 II* (6 nights, in collaboration with Nanjing University)
- Sep 2016 10-m GTC telescope at La Palma (Spain). *Peering into the origin of substructures in M31 using planetary nebulae II*. (30 hours) in collaboration with Peking University and University of Hong Kong
- Apr 2016 3.5-m Telescope/PMAS at Calar Alto (Spain). *2D Star Formation Histories in Dwarf Galaxies with PPAK II*. (2+2 nights, P.I.)
- Sep 2015 3.5-m Telescope/PMAS at Calar Alto (Spain). *A spectroscopic mapping of the circum-nuclear environment in M31*. (3+3 nights) in collaboration with Nanjing University
- Jan 2015 3.5-m Telescope/PMAS at Calar Alto (Spain). *A survey of Local Dwarf Galaxies with PPAK II*. (8+8 nights, P.I.)
- Aug 2014 10-m GTC telescope at La Palma (Spain). *Peering into the origin of substructures in M31 using planetary nebulae*. (7 nights) in collaboration with Peking University and University of Hong Kong
- Feb 2014 MUSE at VLT (Paranal, Chile). *Self-consistent photo and spectro Star Formation Histories in Dwarf Galaxies with MUSE*. (9 hours, P.I.)
- June 2013 3.5-m Telescope/PMAS at Calar Alto (Spain). *A survey of Local Dwarf Galaxies with PPAK*. (9+9 nights, P.I.)
- Jan 2013 3.5-m Telescope/PMAS at Calar Alto (Spain). *2D Star Formation Histories in Dwarf Galaxies with PPAK* (P.I.)
- Feb 2013 3.5-m Telescope/PMAS at Calar Alto (Spain). *A large aperture spectrophotometric library of elliptical galaxies* (P.I.)
- 2011-2012 1.5-m Telescope at Observatorio Sierra Nevada (Spain). *Star-forming Polar Ring Galaxies Survey*. More than 20 nights (Co-I)
- Sep 2011 Palomar 200-inch Hale Telescope (California, U.S.). *Chemistry of M31 substructures through Planetary Nebulae* (P.I.), Telescope Access Program of China
- Oct 2009 4-m LAMOST/Guoshoujing Telescope at Xinlong Station (China). One week during commissioning time
- Oct 2008 3.5-m Telescope/PMAS at Calar Alto (Spain). *Integral field spectroscopy of the interstellar medium in compact galaxies with nitrogen overabundance* (Co-I)
- Jul 2005 4.2-m William Herschel Telescope at the Roque de los Muchachos Observatory (La Palma, Spain). *Star Formation propagation in Blue Compact Dwarf Galaxies* (Co-I)