

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€)
- 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
- 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

2 quinquennia (quinquenios; 2012-2017, 2018-2022)

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

Visiting Scholar

Aug-Oct 2023	<i>National Astronomical Observatories of the Chinese Academy of Sciences (NAOC, China)</i>
Oct-Nov 2019	<i>Nanjing University (China)</i>
Aug-Sept 2018	<i>University of Rwanda (Rwanda)</i>
Sep 2017	<i>Nanjing University (China)</i>
Sept-Oct 2016	<i>University of Rwanda (Rwanda)</i>
Oct-Nov 2015	<i>Universidade Federal de Santa Catarina (Florianópolis, Brazil)</i>
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 (IAA)</i>

Teaching

May 2023	<i>Diego de Pantoja y la música como instrumento de diplomacia en la Ciudad Prohibida (ss. XVII-XVIII)</i> , 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 (PCD 2919-12941)</i> , <i>Profesor Ayudante Doctor (PAD 2019-12942)</i> and <i>Profesor de Universidad Privada (PUP 2019-12943)</i> 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
Sept 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 *School of High Energy Astrophysics and Spectroscopy*, University of Rwanda (master students of Rwanda and Uganda)
- July 2013 *Guillermo Haro 2013 Workshop • Galaxy structure and evolution through Integral Field Spectroscopy: the next generation surveys*, INAOE (México)
- 2002-2005 *Astrophysics II* (Lab), Universidad Autónoma de Madrid

Supervising

- 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)
- 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)
- 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

- 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

Service Activities

- 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

- 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

Python CL Fortran Shell C - Chuck HTML wxPython

HPC

GRID extensive user, Dirac

Astrophysics
& visualization

IRAF/PyRAF, Matplotlib, Blender, PGPLOT, DS9, XMGrace, IGI

Others

L^AT_EX, 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 suite to visualize IFS data, including 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

English ★★★★★

Chinese ★★★★★☆ HSK5

Italian • French ★★☆☆☆

Modern Standard ★☆☆☆☆

Arabic • German

Courses

- 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 Abigaíl Horro (Confucius Institute of Granada, Barcelona and Madrid)

Music

- 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 Abigaíl Horro
- Ancient Chinese Music project [Todos los Tonos y Ayres](#), duo with Abigaíl 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)

*For a more detailed outline of activities, check the official web of [Todos los Tonos y Ayres](#) and [Silk & Bamboo](#)

- 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 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)
- 2 J. Domínguez-Gómez et al. (including **R. García-Benito** 16/24). *Stellar mass-metallicity relation throughout the large-scale structure of the Universe: CAVITY mother sample*. Astronomy and Astrophysics, 680, A111 (2023)
- 3 Z. Li, Z. Li, **R. García-Benito**, Y. Jin. *CAHA/PPAK Integral-field Spectroscopic Observations of M81. II. Testing Photoionization Models in a Spatially Resolved LINER*. Astrophysical Journal, 958, 89 (2023)
- 4 F. R. Ditrani et al. (including **R. García-Benito** 20/38). *Stellar metallicity from optical and UV spectral indices: Test case for WEAVE-StePS*. Astronomy and Astrophysics, 677, A93 (2023)
- 5 J. Domínguez-Gómez et al. (including **R. García-Benito** 15/23). *Galaxies in voids assemble their stars slowly*. Nature, 619, 269 (2023)
- 6 E. Pérez-Montero, R. Amorín, B. Pérez-Díaz, J. M. Vílchez, **R. García-Benito**. *Assessing model-based carbon and oxygen abundance derivation from ultraviolet emission lines in AGNs*. Monthly Notices of the Royal Astronomical Society, 521, 1556 (2023)
- 7 G. Martínez-Solaeché, C. Queiroz, R. M. González Delgado, N. V. N. Rodrigues, **R. García-Benito** and 27 co-authors. *The miniJPAS survey quasar selection. III. Classification with artificial neural networks and hybridisation*. Astronomy and Astrophysics, 673, A103 (2023)
- 8 H. M. Courtois et al. (including **R. García-Benito** 9/17). *Sociology and hierarchy of voids: A study of seven nearby CAVITY galaxy voids and their dynamical CosmicFlows-3 environment*. Astronomy and Astrophysics, 673, A38 (2023)
- 9 A. Iovino et al. (including **R. García-Benito** 30/48). *WEAVE-StePS: A stellar population survey using WEAVE at WHT*. Astronomy and Astrophysics, 672, A87 (2023)
- 10 A. Iovino et al. (including **R. García-Benito** 17/48). *Stellar Population Survey Using 4MOST (4MOST-StePS)*. The Messenger, 190, 22 (2023)
- 11 J. E. Rodríguez-Martín, R. M. González Delgado, G. Martínez-Solaeché, L. A. Díaz-García, A. de Amorim, **R. García-Benito** and 30 co-authors. *The miniJPAS survey. Galaxy populations in the most massive cluster in miniJPAS: mJPC2470-1771*. Astronomy and Astrophysics, 666, A160 (2022)
- 12 R. M. González Delgado, J. E. Rodríguez-Martín, L. A. Díaz-García, A. de Amorim, **R. García-Benito** and 30 co-authors. *The miniJPAS survey. The role of group environment in quenching star formation*. Astronomy and Astrophysics, 666, A84 (2022)
- 13 V. Kalinova, D. Colombo, S. F. Sánchez, E. Rosolowsky, K. Kodaira, **R. García-Benito** and 6 co-authors. *Investigating the link between inner gravitational potential and star-formation quenching in CALIFA galaxies*. Astronomy and Astrophysics, 665, A90 (2022)
- 14 **R. García-Benito** & E. Pérez-Montero. *Painting graphs with sounds: CosMonic sonification project*. Revista Mexicana de Astronomía y Astrofísica Conference Series, 54, 28 (2022)
- 15 G. Martínez-Solaeché, R. M. González Delgado, **R. García-Benito** and 28 co-authors. *The miniJPAS survey: Identification and characterization of the emission line galaxies down to $z < 0.35$ in the AEGIS field*. Astronomy and Astrophysics, 661, A99 (2022)
- 16 C. Espinosa-Ponce, S. F. Sánchez, C. Morisset, J. K. Barrera-Ballesteros, L. Galbany, **R. García-Benito** and 2 co-authors. *H II regions in CALIFA survey: II. The relation between their physical properties and galaxy evolution*. Monthly Notices of the Royal Astronomical Society, 512, 3436 (2022)
- 17 Z. Li, Z. Li, **R. García-Benito**, S. Feng. *CAHA/PPAK Integral-field Spectroscopic Observations of M81. I. Circumnuclear Ionized Gas*. Astrophysical Journal, 928, 111 (2022)
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Legend



Invited talks



Contributed talks



Panels



Chair




Poster presentations



Posters

Conference Proceedings

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- 🗨️ *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
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- 🗨️ *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
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- 🗨️ *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
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- 🗨️ *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

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-  **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
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- Planning for 4MOST: towards the 4MOST survey programme (virtual)*. ESO, 9-10 July, 2020
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Outreach papers

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

- 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)