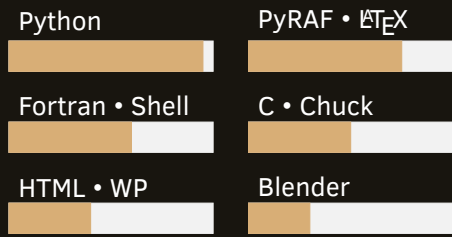


Rubén GARCÍA-BENITO



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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
- Elementary degree studies in Harpsichord

Grants & Fellowships

Selection

- *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*)

Positions

- 2011- Postdoctoral Fellow, *Instituto de Astrofísica de Andalucía (IAA-CSIC)*
- 2009-2011 Postdoctoral Research Fellow, *Kavli Institute for Astronomy and Astrophysics at Peking University (KIAA)* 北京大学科维理天文与天体物理研究所
- 2005-2009 FPI PhD Fellow at UAM
- 2002-2005 Astronomical Observatory of the UAM

Research & Academic Service

Selection

- Participation in ten national (Spain) and international projects
- Research stays, visiting scholar and lecturer at several institutions: KIAA, *Universidade Federal de Santa Catarina* (Brazil), *Nanjing University* (China), *University of Rwanda* (Rwanda), ...
- Supervisor and co-supervisor of 6 master thesis students
- Thesis Committe Member of 5 master and PhD thesis
- More than 50 contributions in scientific international conferences, workshops and seminars with more than 20 talks as speaker/lecturer
- Local Organizing Committee member of several international conferences and workshops
- Member of the Time Allocation Committee of the Sierra Nevada Observatory
- Referee for A&A, MNRAS, and AJ
- Scientific Committee member of the *Spanish Forum of Asian-Pacific Research Studies*, 2014 and 2016 editions and the I (2018) and II (2020) *International Conference of the Spanish Association of East Asian Studies*

Scientific Production



Rubén García-Benito

Place of Birth: Bilbao (Spain)
ORCID ID: 0000-0002-7077-308X
Scopus Author ID: 13007789600
Researcher ID: A-3404-2017
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[LinkedIn](#)

Education

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

Postgraduate

- 2012 Course "*Hermeticism, Alchemy and Magic*" (History of Science), Universidad de Granada
- 2004 Postgraduate Teaching Certificate in Physics and Chemistry, *Universidad Complutense de Madrid* (UCM)

Positions

- 2019- 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

- 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* 北京外國語大學, China
- 2002-2005 Postgraduate training grant from the Astronomical Observatory of the UAM

Participation in Research Projects

- 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)
- 2005-2011 *Estallidos de Formación Estelar en Galaxias* (AYA 2004-08260-C03, AYA 2007-67965-C03) funded by Spanish National Plan for Astronomy and Astrophysics
- 2006-2011 *Consolider-Ingenio 2010: First Science with GTC* funded by the Spanish Ministry of Education and Science
- 2006-2009 ASTROCAM: Astrophysics network of the Autonomous Community of Madrid (S-0505/-ESP/000237)

International Research Consortia

- 2020- CAVITY (Calar Alto Void Integral-field Treasury surveyY). 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- Joint PI of the Galaxy Mapping Instrument at Calar Alto (GAMAICA). Feasibility study under progress.

Scientific Production Summary

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



Visiting Scholar

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	Instituto de Astrofísica de Andalucía (IAA)

Teaching

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, Universidad Autónoma de Madrid
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> , Universidad Autónoma de Madrid
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

Supervising

2019-2023	Ginés Martínez Solaache (PhD thesis), Universidad de Granada (co-supervisor: R. M. González Delgado)
2020-2024	Blessing Musiimenta (PhD thesis), Mbarara University of Science and Technology (co-supervisor: Tom Mutabazi)
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

- 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 (master student, internship), Nanjing University (supervisor: Zhiyuan Li)

Committee Service

- 2015-present Member of the Time Allocation Committee (TAC) of the Sierra Nevada Observatory
- 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

- 2012- Referee for Astronomy & Astrophysics, *Astronomical Journal*
- 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

- 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" 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)
- 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 \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 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	Italian	•	French	★★☆☆☆
English	★★★★☆		Modern Standard		Arabic	★☆☆☆☆
Chinese	★★★★☆	HSK	German			

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

Early Music Morella 2017, Academia y Festival Internacional de Música Medieval y Renacentista

Course *Music & Cinema* given by composer José Nieto

Other activities

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 (Festival of Music and Science)
- *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 co-direction of the program [The Emperor's Harpsichord: After the Legacy of Diego de Pantoja](#), presented in a May-June 2018 China Tour organized by [Instituto Cervantes](#) and the Embassy of Spain in Beijing
- 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

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

- Musician in *Bóreas Ventus II* CD (Discography: GR 700-2019)
- *Poetry and the Moon*, VI, VIII, and X 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
- 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

- M. Grossi, **R. García-Benito** and 6 co-authors. *Inverted metallicity gradients in two Virgo cluster star-forming dwarf galaxies: evidence of recent merging?*. Monthly Notices of the Royal Astronomical Society, 498, 1939 (2020)
- 2 V. S. Paliya, E. Pérez, **R. García-Benito** and 10 co-authors. *TXS 2116-077: A Gamma-Ray Emitting Relativistic Jet Hosted in a Galaxy Merger*. Astrophysical Journal, 892, 133 (2020)
- 3 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 the CALIFA survey: I. catalogue presentation*. Monthly Notices of the Royal Astronomical Society, 494, 1622 (2020)
- 4 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)
- 5 J. K. Barrera-Ballesteros et al. (including **R. García-Benito** 11/14). *The EDGE-CALIFA survey: using optical extinction to probe the spatially resolved distribution of gas in nearby galaxies*. Monthly Notices of the Royal Astronomical Society, 492, 2651 (2020)
- 6 J. Falcón-Barroso et al. (including **R. García-Benito** 10/35). *The CALIFA view on stellar angular momentum across the Hubble sequence*. Astronomy and Astrophysics, 632, A59 (2019)
- 7 L. Costantin et al. (including **R. García-Benito** 13/32). *A few StePS forward in unveiling the complexity of galaxy evolution: light-weighted stellar ages of intermediate-redshift galaxies with WEAVE*. Astronomy and Astrophysics, 632, A9 (2019)
- 8 E. Pérez-Montero, O. L. Dors, J. M. Vílchez, **R. García-Benito**, M. V. Cardaci, G. F. Hägele. *A bayesian-like approach to derive chemical abundances in type-2 active galactic nuclei based on photoionization models*. Monthly Notices of the Royal Astronomical Society, 489, 2652 (2019)
- 9 B. Dey et al. (including **R. García-Benito** 13/13). *The EDGE-CALIFA survey: exploring the star formation law through variable selection*. Monthly Notices of the Royal Astronomical Society, 488, 1926 (2019)
- 10 E. Pérez-Montero, **R. García-Benito**, J. M. Vílchez. *Revisiting the hardening of the stellar ionizing radiation in galaxy discs*. Monthly Notices of the Royal Astronomical Society, 483, 3322 (2019)

- 11 C. López-Cobá, S. F. Sánchez, J. Bland -Hawthorn, A. V. Moiseev, I. Cruz-González, **R. García-Benito** and 2 co-authors. *Systematic study of outflows in the Local Universe using CALIFA: I. Sample selection and main properties*. Monthly Notices of the Royal Astronomical Society, 482, 4032 (2019)
- 12 **R. García-Benito**, R. M. González Delgado, E. Pérez, R. Cid Fernandes, S. F. Sánchez, A. L. de Amorim. *Spatially resolved mass-to-light from the CALIFA survey. Mass-to-light ratio vs. color relations*. Astronomy and Astrophysics, 621, A120 (2019)
- 13 G. Guidi, J. Casado, Y. Ascasibar, **R. García-Benito** and 5 co-authors. *The SELGIFS data challenge: generating synthetic observations of CALIFA galaxies from hydrodynamical simulations*. Monthly Notices of the Royal Astronomical Society, 479, 917 (2018)
- 14 E. Aquino-Ortiz et al. (including **R. García-Benito** 11/11). *Kinematic scaling relations of CALIFA galaxies: A dynamical mass proxy for galaxies across the Hubble sequence*. Monthly Notices of the Royal Astronomical Society, 479, 2133 (2018)
- 15 H. Dong, K. Olsen, T. Lauer, A. Saha, Z. Li, **R. García-Benito** and 1 co-authors. *The star formation history in the M31 bulge*. Monthly Notices of the Royal Astronomical Society, 478, 5379 (2018)
- 16 R. López Fernández, R. M. González Delgado, E. Pérez, **R. García-Benito** and 7 co-authors. *Cosmic evolution of the spatially resolved star formation rate and stellar mass of the CALIFA survey*. Astronomy and Astrophysics, 615, A27 (2018)
- 17 R. C. Levy et al. (including **R. García-Benito** 8/18). *The EDGE-CALIFA Survey: Molecular and Ionized Gas Kinematics in Nearby Galaxies*. Astrophysical Journal, 860, 92 (2018)
- 18 D. Colombo et al. (including **R. García-Benito** 14/18). *The EDGE-CALIFA survey: the influence of galactic rotation on the molecular depletion time across the Hubble sequence*. Monthly Notices of the Royal Astronomical Society, 475, 1791 (2018)
- 19 E. A. D. Lacerda, R. Cid Fernandes, G. S. Couto, G. Stasińska, **R. García-Benito** and 5 co-authors. *Diffuse ionized gas in galaxies across the Hubble sequence at the CALIFA resolution*. Monthly Notices of the Royal Astronomical Society, 474, 3727 (2018)
- 20 L. Galbany et al. (including **R. García-Benito** 18/19). *PISCO: The PMAS/PPak Integral-field Supernova Hosts Compilation*. Astrophysical Journal, 855, 107 (2018)
- 21 J. Méndez-Abreu et al. (including **R. García-Benito** 19/26). *Morpho-kinematic properties of field S0 bulges in the CALIFA survey*. Monthly Notices of the Royal Astronomical Society, 474, 1307 (2018)
- 22 L. Izzo, C. C. Thöne, **R. García-Benito** and 7 co-authors. *The host of the Type I SLSN 2017egm. A young, sub-solar metallicity environment in a massive spiral galaxy*. Astronomy and Astrophysics, 610, A11 (2018)
- 23 L. Zhu et al. (including **R. García-Benito** 17/19). *The stellar orbit distribution in present-day galaxies inferred from the CALIFA survey*. Nature Astronomy, 2, 233 (2018)
- 24 X. Fang, **R. García-Benito** and 8 co-authors. *Chemical Abundances of Planetary Nebulae in the Substructures of M31. II. The Extended Sample and a Comparison Study with the Outer-disk Group*. Astrophysical Journal, 853, 50 (2018)
- 25 **R. García-Benito** and 9 co-authors. *The spatially resolved star formation history of CALIFA galaxies. Cosmic time scales*. Astronomy and Astrophysics, 608, A27 (2017)
- 26 D. Utomo et al. (including **R. García-Benito** 11/17). *The EDGE-CALIFA Survey: Variations in the Molecular Gas Depletion Time in Local Galaxies*. Astrophysical Journal, 849, 26 (2017)
- 27 R. M. González Delgado, E. Pérez, R. Cid Fernandes, **R. García-Benito** and 8 co-authors. *Spatially-resolved star formation histories of CALIFA galaxies. Implications for galaxy formation*. Astronomy and Astrophysics, 607, A128 (2017)
- 28 C. Cortijo-Ferrero, R. M. González Delgado, E. Pérez, R. Cid Fernandes, **R. García-Benito** and 6 co-authors. *The spatially resolved star formation history of mergers. A comparative study of the LIRGs IC 1623, NGC 6090, NGC 2623, and Mice*. Astronomy and Astrophysics, 607, A70 (2017)
- 29 A. L. de Amorim, **R. García-Benito** and 7 co-authors. *The PyCASSO database: spatially resolved stellar population properties for CALIFA galaxies*. Monthly Notices of the Royal Astronomical Society, 471, 3727 (2017)
- 30 A. D. Montero-Dorta et al. (including **R. García-Benito** 11/13). *The Dependence of Galaxy*

- Clustering on Stellar-mass Assembly History for LRGs*. *Astrophysical Journal*, 848, L2 (2017)
- 31 C. Cortijo-Ferrero et al. (including **R. García-Benito** 8/13). *The spatially resolved stellar population and ionized gas properties in the merger LIRG NGC 2623*. *Astronomy and Astrophysics*, 606, A95 (2017)
- 32 C. Catalán-Torrecilla et al. (including **R. García-Benito** 10/25). *Star Formation in the Local Universe from the CALIFA Sample. II. Activation and Quenching Mechanisms in Bulges, Bars, and Disks*. *Astrophysical Journal*, 848, 87 (2017)
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Legend

🗨 Invited talks 🗨 Contributed talks 📄 Poster presentations 📄 Posters

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 **R. García-Benito**, E. Pérez, A. I. Díaz. *An Optical-Infrared photometric study of the Giant Extragalactic HII Region NGC 5471*. Cozumel/Cancún Conference on "Resolved Stellar Populations" held 18-22 April 2005 at Cancun (Mexico), D. Valls-Gabaud and M. Chavez (Eds.), ASP Conference Series


 **R. García-Benito**, E. Pérez, A. I. Díaz. *An optical-infrared photometric study of the giant star forming region NGC 5471*. Conference "The many scales of the Universe, JENAM" held 13-17 September 2004 at Granada (Spain), J.C. del Toro et al. (Eds.), Springer


 **R. García-Benito**, E. Pérez-Montero, R. Sevilla, A. Mora. *Instrumentation and teaching in the Observatory of the Universidad Autónoma de Madrid*. Conference "The many scales of the Universe, JENAM" held 13-17 September 2004 at Granada (Spain), J.C. del Toro et al. (Eds.), Springer


Communications

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
 - XIV Scientific Meeting (virtual).* SEA, 13-15 July, 2020
 - Planning for 4MOST: towards the 4MOST survey programme (virtual).* ESO, 9-10 July, 2020
 - 2nd WEAVE-Apertif meeting.* La Laguna (Spain), 1-3 April, 2019
 - The Third WEAVE All-Hands Meeting.* Naples (Italy), 17-20 September, 2018
 - 1st 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
 - 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 Papers **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

- 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)