



Rubén López-Coto

Curriculum Vitae

Personal Information

Date of Birth May, 26th 1987. Huelva, Spain.

Nationality Spanish.

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SCOPUS ID 55014262900

Education

2011–2015 **PhD. Physics**, *Universitat Autònoma de Barcelona*, Barcelona, Spain.

2009–2010 **M.Sc. Physics**, *Münster Universität*, Münster, Germany.

2005–2009 **Dipl. Physics**, *Universidad de Sevilla*, Sevilla, Spain.

Habilitation

2019–2032 **Abilitazione Scientifica Nazionale 02/A1**, *Fisica Sperimentale delle Interazioni Fondamentali*, Italy.

2019–2032 **Abilitazione Scientifica Nazionale 02/C1**, *Astronomia, Astrofisica, Fisica della Terra e dei Pianeti*, Italy.

PhD thesis

Title *Very-high-energy observations of pulsar wind nebulae and cataclysmic variable stars with MAGIC and development of trigger systems for IACTs.*

Supervisors Dr. Juan Cortina, Dr. Oscar Blanch. Qualification: Excellent *cum laude* (highest grade).

Master thesis

Title *Test and commissioning of the detector system in the $^{209}\text{Bi}^{80+}$ experiment at the Experimental Storage Ring (ESR) at GSI.*

Supervisors Prof. Dr. Christian Weinheimer, Dr. Volker Hannen. Qualification: *Grade A (sehr gut)*.

Experience

2024– **Staff Researcher (Científico Titular)**, *IAA-CSIC*, Granada.

2022–2024 **Ramón y Cajal fellow**, *IAA-CSIC*, Granada.

2019–2022 **Marie Skłodowska-Curie FELLINI fellow**, *INFN*, Padova.

2017–2019 **INFN Postdoctoral fellow**, *INFN*, Padova.

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- 2015–2017 **Postdoctoral Researcher**, *MPIK*, Heidelberg.
- 2011–2015 **FPI-PhD-Fellow**, *IFAE*, Barcelona.
- 2010–2011 **Researcher**, *CSIC*, Granada, Instituto de Astrofísica de Andalucía.
- 2009–2010 **Master student**, *Münster Universität*, Münster, Institut für Kernphysik.
- 2009 **JAE Intro-Fellow**, *CSIC*, Granada, Instituto de Astrofísica de Andalucía.
- 2008 **JAE Intro-Fellow**, *CSIC*, Sevilla, Instituto de Microelectrónica de Sevilla.

Collaboration Responsibilities

- 2024–Present **Galactic Working Group Coordinator of CTAC.**
- 2022–Present **Member of the Coordination Committee of Gammapy.**
- 2021–Present **Member of the LST Physics Committee.**
- 2020–Present **Deep Learning Working Group coordinator of MAGIC.**
- 2020–Present **Speakers and Publications Office member of MAGIC.**
- 2018–Present **Executive Board member of the LST of CTAO.**
- 2018–Present **Software Co-Coordinator of the LST of CTAO.**
- 2023–2025 **Speakers and Publications Office member of CTAC.**
- 2022–2023 **Galactic Working Group Coordinator of LST.**
- 2020–2022 **Galactic Working Group Coordinator of SWGO.**
- 2018–2021 **Galactic Working Group Coordinator of MAGIC.**
- 2014–2015, **Member of the MAGIC Software Board, *MAGIC Collaboration.***
- 2017–Present

Committees Membership

- October 2025 **I CTAO’s Werner Hofmann Scientific Award Evaluation Committee.**
- 2021–Present **Member of the LST Time Allocation Committee.**
- 2021–Present **Member of the MAGIC Time Allocation Committee.**

Institutional Responsibilities

- 2024–Present **Gamma-ray Astronomy coordinator of the Red Nacional RENATA.**

Research projects

Only included those as PI or as Investigator from Spanish institutions.

- 2024-2028. **Title: Momentum CSIC: MOTHER: Clasificación de imágenes en el universo extremo.**, *PI: Rubén López Coto*, Amount: 480.681,86 €, Role: Principal Investigator.
- 2024-2026. **Title: Proyecto de Consolidación Investigadora: Deep Learning in the Very hIgh eNErgy GAMMA Ray Universe (MRR-46QD-CNS2023-144504).**, *PI: Rubén López Coto*, Amount: 399.715 €, Role: Principal Investigator.
- 2023-2026. **Title: Astronomía de rayos gamma con CTA-Norte y MAGIC, Proyecto 2 - contribución del IAA-CSIC (PID2022-139117NB-C44).**, *PI: Rubén López Coto*, Amount: 232.375 €, Role: Principal Investigator.
- 2022-2027. **Title: Dotación adicional de contrato Ramón y Cajal de Rubén López Coto (RYC2020-028639-I).**, *PI: Rubén López Coto*, Amount: 42.000 €, Role: Principal Investigator.

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- 2022-2025. **Title:** Proyecto intramural, **Atracción al Talento 2020 (OTR08334 - RYC2020-028639-I): Deep Learning reconstruction of Very High Energy Gamma-ray data**, *PI: Rubén López Coto*, Amount: 120.000 €, Role: Principal Investigator.
- 2019-2023. **Title:** **Astronomía de rayos gamma con MAGIC y CTA Norte - contribución del IAA-CSIC (PID2019-107847RB-C44).**, *PI: Iván Agudo*, Amount: 77.500 €, Role: Investigator.
- 2019-2022. **Title:** **Machine Learning of the Extreme Universe (Marie Skłodowska-Curie grant agreement No. 754496).**, *PI: Rubén López Coto*, Amount: 206.100 €, Role: Principal Investigator.
- 2017-2019. **Title:** **Cosmic ray studies using VHE gamma-ray observations (Fondi INFN Cap. U.1.04.02.03.001).**, *PI: Rubén López Coto*, Amount: 86.800 €, Role: Principal Investigator.
2015. **Title:** **Participación Española en el Diseño y Prototipado de CTA (FPA2014-55819-C4-1-P).**, *PI: Abelardo Moralejo*, Amount: 76.500 €, Role: Investigator.
2014. **Title:** **Participación Española en el Diseño y Prototipado de CTA (FPA2013-48381-C6-1-P).**, *PI: Abelardo Moralejo*, Amount: 130.600 €, Role: Investigator.
- 2011-2013. **Title:** **Participación Española en la Fase Preparatoria de CTA (FPA2010-22056-C06-01).**, *PI: Manuel Martínez*, Amount: 528.600 €, Role: Investigator.
- 2010-2012. **Title:** **Astrofísica a la máxima resolución angular (AYA2009-13036-C02-01).**, *PI: Antonio Alberdi*, Amount: 122.210 €, Role: Investigator.

Fellowships, prizes and honours

- **MAGIC Florian Goebel Prize** “for the swift and rigorous analysis and modeling of the observations of the RS Oph August 2021 outburst, leading to the establishment of proton acceleration in recurrent novae”, 2022.
- **Ramón y Cajal fellowship**, 2021.
- **Atracción de Talento senior** de la Comunidad Autónoma de Madrid, 2021 - declined.
- **Marie Skłodowska Curie FELLINI** fellowship, 2019.
- **Seal of Excellence** by the European Commission for the Marie Skłodowska-Curie actions, 2018.
- **NVIDIA winner** of a scholarship for research using GPUs, 2018.
- **PhD extraordinary Prize** by the Universitat Autònoma de Barcelona, 2018.
- Ranked first in the INFN Postdoctoral fellowship program, 2017.
- PhD thesis selected and published on **Springer Theses series**, 2016.
- FPI PhD Fellow, Institut de Física d’Altes Energies, 2011.
- University collaboration scholarship, 2011.
- Erasmus double degree scholarship, 2009.
- Universia-Fernando Alonso scholarship to study abroad, 2009.
- CSIC JAE Intro-Fellow, Instituto de Astrofísica de Andalucía, 2009
- CSIC JAE Intro-Fellow, Instituto de Microelectrónica de Sevilla, 2008

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3/17

- Excellence scholarship of Madrid Community for the best grades, 2006.
- Honour degree at Computer Programming, Basic Electronics, Electronics, Electrodynamics and Electrodynamics Laboratory.
- Honour degree at high school. Best student of the promotion, 2005.

Major collaborations

- 2021–Present **IXPE Collaboration**, 100 members, Associated member.
- 2019–Present **SWG0 Collaboration**, 230 members, Activities: Galactic Science, Fundamental Physics.
- 2011–Present **CTAC Collaboration**, 1500 members, Activities: Galactic physics, simulations and software development.
- 2010–2015, 2017–Present **MAGIC Collaboration**, 300 members, Activities: Cosmic ray studies, simulations, software and hardware development.
- 2015–Present **HAWC Collaboration**, 170 members, Activities: Outrigger electronics, Galactic physics, Cosmic ray propagation. Full member until 2021, associated member since then..
- 2015–2017 **H.E.S.S. Collaboration**, 260 members, Activities: Galactic physics.
- 2009–2010 **SPECTRAP Collaboration**, 25 members, Activities: Detector development.

Scientific societies

- 2021–Present **Member of the European Astronomical Society (EAS).**
- 2019–Present **Member of the International Astronomical Union (IAU).**
- 2018–Present **Member of the Spanish Astronomical Society (SEA).**
- 2018–Present **Member of the Società Italiana di Fisica (SIF).**
- 2010–2011 **Member of the German Physical Society (DPG).**

Observation proposals granted

- VHE γ rays More than 300 hours of observations with MAGIC
- X-rays 20 hours of observations with *Swift*
- Optical More than 50 hours of observations with the KVA telescope.
- Radio 2 hours with VLA

Organization of International Conferences or Workshops

- May 2026 **III CTAO Summer school**, *Scientific Organizing Committee*, 30 participants, La Palma, Spain.
- November 2025 **TeVPa 2025**, *Scientific Organizing Committee*, 400 participants, Valencia, Spain.
- November 2024 **III HONEST Workshop: The High Energy End of Pulsar Spectra**, *Main organizer*, 200 participants, (remote).
- July 2024 **XVI SEA meeting**, *Local organizing committee*, 600 participants, Granada, Spain.

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- January 2024 **II LST Analysis School**, *Main organizer, 150 participants*, (remote).
- April 2023 **CTAC/O General meeting**, *Main organizer, 150 participants*, Granada, Spain.
- December 2022 **II HONEST Workshop: PeVatrons and their environments**, *Main organizer, 250 participants*, (remote).
- July 2022 **44th COSPAR Scientific Assembly**, *Scientific Organizing Committee of the Gamma ray session, 500 participants*, Athens, Greece.
- January 2022 **I LST Analysis School**, *Main organizer, 120 participants*, (remote).
- October 2021 **LST Low Energy Workshop**, *Main organizer, 50 participants*, Munich, Germany.
- July 2021 **ICRC 2021**, *Convener of the Gamma Ray Indirect session, 700 participants*, Berlin, Germany (remote).
- February 2021 **43rd COSPAR Scientific Assembly**, *Convener of the Gamma Ray session, 500 participants*, Sydney, Australia (hybrid).
- December 2020 **I HONEST Workshop: Gamma-ray Halos around Pulsars**, *Main organizer, 180 participants*, Padova, Italy (remote).
- June 2020 **MAGIC Collaboration meeting**, *Local organizing committee, 100 participants*, (remote).
- October 2019 **First SWGO Collaboration meeting**, *Local Organizing Committee, 60 participants*, Padova, Italy.
- May 2019 **Wide Field-of-View gamma-ray observatory in the Southern Hemisphere**, *Scientific Organizing Committee, 50 participants*, Lisbon, Portugal.
- November 2018 **LST Analysis Bootcamp**, *Main Organizer, 60 participants*, Padova, Italy.
- August 2018 **TeVpa 2018**, *Scientific Organizing Committee, 400 participants*, Berlin, Germany.
- September 2016 **HESS Collaboration meeting**, *Local organizing committee, 100 participants*, Heidelberg, Germany.
- April 2016 **Workshop on a wide FoV gamma-ray observatory in the Southern Hemisphere**, *Main organizer, 20 participants*, Heidelberg, Germany.

Main Publications

The list below includes the 29 publications with a short author list as well as collaboration publications signed in alphabetical order in which Rubén López-Coto is corresponding author since he led the publication.

Books

- 2017 Very-high-energy Gamma-ray Observations of Pulsar Wind Nebulae and Cataclysmic Variable Stars with MAGIC and Development of Trigger Systems for IACTs, Springer Theses, DOI: 10.1007/978-3-319-44751-3.

High Impact articles

- 2024 de Oña Wilhelmi, López-Coto, R., et al., *The hunt for PeVatrons as the origin of the most energetic photons observed in the Galaxy*, **Nature Astronomy**, 8, 425-431.
- 2022 de Oña Wilhelmi, López-Coto, R., et al., *On the potential of bright, young pulsars to power ultra-high gamma-ray sources*, **ApJ Letters**, 930 L2.
- 2022 Sitarek, J., & López-Coto, R., *Gamma rays reveal proton acceleration in nova explosions*, **Nature Astronomy**, Research Briefing, 6, 643-644.

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- 2022 Acciari, V., et al. (López-Coto, R. corresponding author), *Proton acceleration in thermonuclear nova explosions revealed by gamma rays*, **Nature Astronomy**, 6, 689-697.
- 2022 López-Coto, R., et al., *Gamma-ray haloes around pulsars as the key to understanding cosmic-ray transport in the Galaxy*, **Nature Astronomy**, 6, 199-206.
- 2018 López-Coto, R., et al., *Undiscovered pulsar in the Local Bubble as an explanation of the local all-electron spectrum*, **Phys. Rev. Lett.**, 121, 251106.
- 2017 Abeysekara, A. U., et al. (López-Coto, R. corresponding author), *Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth*, **Science**, 358, 911-914

Articles as one of the main authors

- 2025 López-Coto, R. et al., *Cosmic Ray bubbles from nova super remnants and their contribution to local cosmic ray spectra*, **A&A**, 696, A24.
- 2025 Abe, K, et al., (López-Coto, R. corresponding author) *Detection of RS Oph with LST-1 and modelling of its HE/VHE gamma-ray emission*, **A&A**, 695, A152.
- 2024 Abe, K, et al., (López-Coto, R. corresponding author) *A detailed study of the very-high-energy Crab pulsar emission with the LST-1*, **A&A**, 690, A167.
- 2023 Abe, H., et al., (López-Coto, R. corresponding author) *Observations of the Crab Nebula and Pulsar with the Large-sized Telescope Prototype of the Cherenkov Telescope Array*, **ApJ**, 956, 80.
- 2023 de Oña Wilhelmi, López-Coto, R., et al., *High-energy gamma-ray emission powered by a young protostar: the case of S255 NIRS 3*, **MNRAS**, 523, 105D.
- 2021 López-Coto, R., et al. *Prospects for the observation of Primordial Black Hole evaporation with the Southern Wide field of view Gamma-ray Observatory*, **JCAP**, 08, 040.
- 2020 Giacinti, G., Mitchell, A., López-Coto, R., et al. *Halo fraction in TeV-bright pulsar wind nebulae*, **A&A**, 636, A113.
- 2019 Schoorlemmer, H., Hinton, J., López-Coto, R., *Characteristics of extensive air showers around the energy threshold for ground-particle-based gamma-ray observatories*, **EPJC**, 79, 5, 427.
- 2019 Joshi, V., Hinton, J., Schoorlemmer, H., López-Coto, R. & Parsons. D., *A Template-based γ -ray Reconstruction Method for Air Shower Arrays*, **JCAP**, 01, 012.
- 2018 López-Coto, R. & Giacinti, G., *Constraining the properties of the turbulent magnetic fields in the Geminga region using HAWC VHE γ -ray measurements*, **MNRAS**, 479, 4526L
- 2018 López-Coto, R. et al., *Effect of the diffusion parameters on the observed γ -ray spectrum of sources and their contribution to the local all-electron spectrum: the EDGE code*, **APh**, 102, 1-11.
- 2017 Sánchez, R., et al., *Laser spectroscopy measurement of the 2s-hyperfinesplitting in lithium-like bismuth*, **JPhB**, 50, 8
- 2016 Gascón, D., et al. (López-Coto, R. corresponding author), *Reconfigurable ASIC for Low Level Trigger system in Cherenkov Cameras*, **JInst**, 11, P11017
- 2016 Ahnen, M., et al. (López-Coto, R. corresponding author), *Search for VHE gamma-ray emission from Geminga pulsar and nebula with the MAGIC telescopes*, **A&A**, 591, A138

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- 2016 López-Coto, R. et al., *The Topo-trigger: A new stereo trigger for lowering the threshold of IACTs*, JInst, 11, P04005
- 2015 Ahnen, M., et al. (López-Coto, R. corresponding author), *Very-high-energy gamma-ray observations of novae and dwarf novae with the MAGIC telescopes*, A&A, 582 A67
- 2015 Cortina, J., López-Coto, R., Moralejo, A. , *MACHETE: A transit Imaging Atmospheric Cherenkov Telescope to survey half of the Very High Energy γ -ray sky*, APh, 72 46-54
- 2014 Lochmann, M., et al., *Observation of the hyperfine transition in lithium-like bismuth $^{209}\text{Bi}^{80+}$: Towards a test of QED in strong magnetic fields*, Phys. Rev. A, 3, 030501
- 2014 Aleksić, J., et al. (López-Coto, R. corresponding author), *Discovery of TeV gamma-ray emission from the pulsar wind nebula 3C 58 by MAGIC*, A&A, 567, L8
- 2014 Aleksić, J., et al. (López-Coto, R. corresponding author), *MAGIC search for VHE gamma-ray emission from AE Aquarii in a multiwavelength context*, A&A, 568, A109
- 2013 Tejedor, L.A., et al., *An Analog Trigger System for Atmospheric Cherenkov Telescope Arrays*, IEEE, 60, 3
- 2013 Hannen, V., et al., *Detection system for forward emitted photons at the Experimental Storage Ring at GSI*, JInst, 09, P09018

Publications

The list below includes the 19 publications in which Rubén López-Coto gave a contribution either through the coordination of working groups, internal refereeing or supervision of the leading author.

Articles as Galactic Convener of MAGIC or LST

- 2023 Acciari, V. A., et al., *Multi-wavelength study of the galactic PeVatron candidate LHAASO J2108+5157*, A&A, 673, A75.
- 2023 Acciari, V. A., et al., *Study of the GeV to TeV morphology of the γ -Cygni SNR (G78.2+2.1) with MAGIC and Fermi-LAT*, A&A, 670, A8.
- 2020 Acciari, V. A., et al., *Detection of the Geminga pulsar with MAGIC hints at a power-law tail emission beyond 15 GeV*, A&A, 643, L14.
- 2020 Acciari, V. A., et al., *MAGIC observations of the diffuse gamma-ray emission in the vicinity of the Galactic center*, A&A, 642, 190.
- 2020 Acciari, V. A., et al., *Studying the nature of the unidentified gamma-ray source HESS J1841-055 with the MAGIC telescopes*, MNRAS, 497, 3734.
- 2020 Ahnen, M. L. et al., *Statistics of VHE gamma-Rays in Temporal Association with Radio Giant Pulses from the Crab Pulsar*, A&A 634, A25.
- 2019 Ahnen, M. L. et al., *MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources*, MNRAS, 485, 356A.
- 2019 Acciari, V. A., et al., *Discovery of TeV γ -ray emission from the neighbourhood of the supernova remnant G24.7+0.6 by MAGIC* MNRAS 483, 4578.
- 2019 Acciari, V. A., et al., *Deep observations of the globular cluster M15 with the MAGIC telescopes*, MNRAS, 484, 2876.

Articles as internal referee of MAGIC/HAWC

- 2023 Eckner, C., et al., *Detecting and characterizing pulsar halos with the Cherenkov Telescope Array*, MNRAS, 521, 3, 3793.

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7/17

- 2023 Acciari, V. A., et al., *Search for Gamma-ray Spectral Lines from Dark Matter Annihilation up to 100 TeV towards the Galactic Center with MAGIC*, Phys. Rev. Lett., 130, 061002
- 2020 Acciari, V. A., et al., *MAGIC very large zenith angle observations of the Crab Nebula up to 100 TeV*, A&A, 635, 158.
- 2018 Abeysekara, A. U., *Very-high-energy particle acceleration powered by the jets of the microquasar SS 433*, Nature, 562, 82A
- 2018 Acciari, V. A., et al., *Constraining very-high-energy and optical emission from FRB 121102 with the MAGIC telescopes*, MNRAS, 481, 2479.
- 2017 Abeysekara, A. U., et al. *The 2HWC HAWC Observatory Gamma Ray Catalog*, ApJ, 843, 40A

Articles as PhD supervisor

- 2025 Méndez-Gallego, J., López-Coto, R. et al., *Exploring the capability of the HH 80-81 protostellar jet to accelerate relativistic particles*, A&A, 695, A11.
- 2023 Albert, A., et al., *Detailed Analysis of the TeV γ -Ray Sources 3HWC J1928+178, 3HWC J1930+188, and the New Source HAWC J1932+192*, ApJ, 942, 96.
- 2021 Acciari, V. A., et al., *Search for Very High Energy Emission from the millisecond pulsar J0218+42*, ApJ, 922, 251.
- 2021 Abdalla, H., et al., *TeV emission of Galactic plane sources with HAWC and H.E.S.S.*, ApJ, 917, 6.
- 2021 Albert, A., et al., *Spectrum and Morphology of the Very-High-Energy Source HAWC J2019+368*, ApJ, 911, 143

+ More than 200 collaboration articles. For a complete list go to: <https://scholar.google.com/citations?user=PTdOLtEAAAAJ&hl=en>

ATels

- July 2021 ATel #14783, “Detection of very-high-energy gamma-ray emission from BL Lac with the LST-1”

Presentations

44 invited talks and seminars, 19 conference talks as first author and more than 100 additional conference contributions.

Invited talks

- September 2025 Title: The Cherenkov Telescope Array Observatory: the future of very high energy gamma-ray astronomy. Conference: RENATA 2025 meeting, *Plenary session*, Zaragoza (Spain).
- October 2024 Title: Galactic gamma-ray PeVatron observations and non-thermal processes in galactic sources. Conference: Searching for the Sources of Galactic Cosmic Rays (SUGAR), *Plenary session*, Wisconsin (USA).
- September 2024 Title: Young pulsars powering ultra-high energy sources. Conference: RICAP 2024 conference, *Plenary session*, Frascati (Italy).
- June 2024 Title: Aftermath of the current generation of IACTs. Conference: 17th Cosmic Ray International Studies and Multimessenger Astroparticle Conference (CRIS), *Plenary session*, Trapani (Italy).

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- June 2024 Title: Introduction to Imaging Atmospheric Cherenkov Telescope Data analysis. Conference: 1st CTLearn workshop, *Plenary session*, Madrid (Spain).
- October 2023 Title: Gamma-ray haloes around pulsars as a key to understanding cosmic-ray transport in the Galaxy. Conference: Exploring Galactic Cosmic Ray accelerators with Ultra High Energy Gamma rays, *Plenary session*, Yerevan (Armenia).
- October 2023 Title: Primordial Black Hole searches in the Very High Energy gamma-ray band. Conference: MAGIC 20 year anniversary, *Plenary session*, La Palma (Spain).
- July 2023 Title: Gamma-ray Rapporteur Talk: a quick walk through the gamma-ray universe. Conference: 38th International Cosmic Ray Conference, *Plenary session*, Nagoya (Japan).
- March 2023 Title: Very High Energy Gamma-ray Astronomy with SWGO: The Southern Wide-Field Gamma-ray Observatory. Conference: Meeting of the Cosmic Ray Division of the Mexican Physical Society, *Plenary session*, Mexico City (Mexico).
- September 2022 Title: Pulsars and their environments. Conference: CTA Spanish Day, *Plenary session*, Madrid (Spain).
- September 2022 Title: TeV halos and related physics. Conference: 108th Meeting of the Italian Physical Society (SIF), Milan (Italy).
- March 2022 Title: Very-High-Energy gamma-ray detection of RS Oph with the MAGIC telescopes. Conference: 56th Rencontres de Moriond, Moriond (Italy).
- March 2022 Title: The future of gamma-ray astronomy with the Cherenkov Telescope Array. Conference: XIII CPAN days, Huelva (Spain).
- October 2021 Title: Contribution of nearby hidden sources to the cosmic ray all-electron spectrum. Conference: Paris Saclay Astroparticle Symposium 2021, Paris (France).
- August 2021 Title: The MAGIC view of the very high energy gamma-ray sky. Conference: 17th TAUP conference, Valencia (Spain).
- February 2021 Title: The very-high gamma-ray sky seen through MAGIC eyes. Conference: 43rd COSPAR Assembly, Sydney (Australia).
- December 2020 Title: Prospects for gamma-ray halos around pulsars detection with SWGO. Conference: 1st Workshop on Gamma-ray Halos Around Pulsars, *Plenary session*, Padova (Italy).
- November 2019 Title: Dark matter searches using charged cosmic rays. Conference: Dark matter searches in the 2020s conference, *Plenary session*, Kashiwa (Japan).
- September 2018 Title: The MAGIC experiment: results and future prospects. Conference: RICAP 2018 conference, *Plenary session*, Rome (Italy).
- May 2018 Title: Extended VHE gamma-ray sources powered by nearby pulsars and their contribution to the positron flux at the Earth. Conference: CRATER Workshop, *Plenary session*, L'Aquila (Italy).
- September 2016 Title: Very high energy gamma-ray astronomy with HAWC. Conference: RICH 2016 conference, *Plenary session*, Bled (Slovenia).
- September 2014 Title: MAGIC Highlights. Conference: RICAP 2014 conference, *Plenary session*, Noto (Italy).
- August 2014 Title: MAGIC Highlights. Conference: VHEPU 2014 conference, *Plenary session* Quy Nhon (Vietnam).

Invited seminars

- April 2024 Title: Primordial Black Holes and other Transient events seen with Very-High-Energy Gamma-ray eyes. Location: Invited seminar in the KM3Net Astro Meeting, Granada (Spain).
- April 2022 Title: Very-High-Energy gamma-ray detection of RS Oph with the MAGIC telescopes. Location: University of Tor Vergata, Rome (Italy).
- March 2022 Title: Deep Learning techniques applied to Very High Energy Gamma-ray Imaging Atmospheric Cherenkov Telescopes., AIIAA seminars, Location: IAA, Granada (Spain).
- June 2021 Title: TeV Halos and their connection to the Leptonic Cosmic Ray flux measured at the Earth. Location: IAA, Granada (Spain).
- April 2021 Title: TeV Halos and their connection to the local Leptonic Cosmic Ray flux. Location: ECAP, Erlangen (Germany).
- October 2020 Title: Primordial Black Holes and other Transient events seen with Very-High-Energy Gamma-ray eyes. Location: INAF, Bologna (Italy).
- June 2020 Title: Pulsars, TeV Halos and their connection to the Leptonic Cosmic Ray flux measured at the Earth. Location: MPP, Munich (Germany).
- January 2020 Title: The Southern Wide-Field Gamma-ray Observatory. Location: IFAE, Barcelona (Spain).
- August 2019 Title: The local positron flux: the role of pulsars. Location: University of Liège (Belgium).
- January 2019 Title: The local positron flux: the role of pulsars. Location: CIEMAT, Madrid (Spain).
- March 2018 Title: Are we living inside a bubble? The answer from nearby pulsars. Location: MPIK, Heidelberg (Germany).
- February 2018 Title: Are we living inside a bubble? The answer from nearby pulsars. Location: DESY, Zeuthen (Germany).
- June 2017 Title: Latest results and future of the wide Field of View gamma-ray astronomy. Location: INFN Padova (Italy).
- June 2017 Title: Are we living inside a bubble? The answer from nearby pulsars. Location: IFAE, Barcelona (Spain).
- June 2016 Title: Latest results and future of the wide Field of View gamma-ray astronomy. Location: Goddard Space Flight Center, Washington (USA).
- April 2016 Title: Very high energy gamma-ray astronomy with the HAWC observatory. Location: MPIK, Heidelberg (Germany).
- January 2016 Title: The non-thermal universe at the highest energies with the Imaging Atmospheric Cherenkov Technique. Location: UNAM, Mexico City (Mexico).
- June 2015 Title: The present and future of TeV gamma-ray astronomy: Discovery of the pulsar wind nebula 3C 58 and MACHETE, a new IACT to survey half of the gamma-ray sky. Location: MPIK, Heidelberg (Germany).
- April 2015 Title: Glimpse to the present and future of TeV gamma-ray astronomy: Discovery of the pulsar wind nebula 3C 58 and MACHETE, a new IACT to survey half of the gamma-ray sky. Location: UCLA, Los Angeles (USA).
- October 2014 Title: The non-thermal universe at the highest energies: TeV gamma-ray astronomy with the MAGIC telescopes. Location: IAA Granada (Spain).

- May 2014 Title: The Topo-trigger: a new concept for stereo trigger for imaging atmospheric Cherenkov telescopes. Location: IFAE, Barcelona (Spain).
Conference talks
- June 2025 Title: Cosmic ray bubbles from nova super remnants. Conference: European Astronomical Society Annual Meeting 2022, Cork (Ireland).
- July 2024 Title: The hunt of PeVatrons: the origin of the most energetic photons observed in our Galaxy. Conference: XVI SEA meeting, Granada (Spain).
- September 2022 Title: Very-High-Energy gamma-ray detection of RS Oph with the MAGIC telescopes. Conference: XV SEA meeting, Tenerife (Spain).
- June 2022 Title: The relationship between bright pulsars and ultra high energy gamma-ray sources. Conference: European Astronomical Society Annual Meeting 2022, Valencia (Spain).
- November 2021 Title: Prospects for the search for Primordial Black Hole evaporation using the Southern Wide-field Gamma-ray Observatory. Conference: Kashiwa Dark Matter Symposium 2021, Kashiwa (Japan).
- October 2021 Title: Galactic Science with the Southern Wide-field Gamma-ray Observatory. Conference: TeVPa 2021, Chengdu (China).
- July 2021 Title: Physics Performance of the Large-Sized Telescope prototype of the Cherenkov Telescope Array. Conference: ICRC 2021 conference, Berlin (Germany).
- February 2021 Title: An undiscovered pulsar as the origin of the cosmic ray all-electron spectrum. Conference: 43rd COSPAR Assembly, Sydney (Australia).
- November 2020 Title: lstchain: An analysis pipeline for LST-1, the first prototype Large-Sized Telescope of CTA. Conference: ADASS XXX , Granada (Spain).
- November 2020 Title: Search for Primordial Black Hole evaporation using current and next generation very-high-energy gamma-ray facilities. Conference: Less Travelled Path of Dark Matter conference (India).
- August 2019 Title: An undiscovered pulsar in the Local Bubble as an explanation of the local all-electron spectrum. Conference: ICRC 2019 conference, Wisconsin (USA).
- December 2017 Title: Prospects for the detection of electron halos of middle-age pulsars. Conference: SGSO workshop, Buenos Aires (Argentina).
- October 2017 Title: HAWC TeV gamma-ray observations of two extended nebulae surrounding Geminga and PSR B0656+14 constrain the origin of the local positron flux. Conference: Fermi symposium 2017, Garmisch-Partenkirchen (Germany).
- July 2017 Title: Morphological and spectral measurements of 2HWC J1928+177 with HAWC and H.E.S.S. Conference: ICRC 2017, Busan (South Korea).
- November 2016 Title: Astrophysical motivations for the construction of a wide FoV gamma-ray observatory in the southern hemisphere. Conference: Workshop on a wide field of view gamma-ray observatory in the Southern Hemisphere, Puebla (Mexico).
- July 2016 Title: HAWC detection of very extended nearby PWNe powered by old pulsars and their relation to the positrons at the Earth. Conference: Gamma 2016 conference, Heidelberg (Germany).
- August 2015 Title: MACHETE: A transit Imaging Atmospheric Cherenkov Telescope to survey half of the Very High Energy γ -ray sky. Conference: XXIX IAU conference, Honolulu (USA).

- July 2015 Title: Discovery of TeV gamma-ray emission from the pulsar wind nebula 3C 58 by MAGIC. Conference: ICRC 2015, The Hague (Netherlands).
- September 2014 Title: Discovery of TeV Gamma-ray Emission from the Pulsar Wind Nebula 3C 58 by MAGIC. Conference: RICAP 2014 conference, Noto (Italy).
- March 2010 Title: Detector system for hyperfine structure measurements at the Experimental Storage Ring (ESR) at GSI. Conference: 2010 DPG meeting, Bonn (Germany).
 - + More than 50 conference proceedings
 - + Several talks at MAGIC, HAWC, H.E.S.S., CTA and LST Collaboration meetings

Supervision activities

Postdocs

- 2024-Present P. Kornecki
- 2024-Present S. Menchiari
 - 2024-2025 P. Guzmán Sánchez
 - 2023-2025 D. Morcuende Parrilla
 - 2023-2024 J. Otero Santos
 - 2020-2022 M. Bernardos Martín.

PhD

- 2025-Present PhD thesis supervision of J.M. García Morillo , University of Granada.
- 2025-Present PhD thesis supervision of M. Pihet, University of Granada.
- 2024-Present PhD thesis supervision of C. Pozo, University of Granada.
- 2023-Present PhD thesis supervision of J. Méndez Gallego, University of Granada.
 - 2018-2022 PhD thesis supervision of A. Spolon. Title: Study of Pulsars and their Environments through Very High Energy Gamma-ray Observations, University of Padova.
 - 2015-2019 PhD thesis co-supervision of A. Jardin-Blicq. Title: The TeV γ -ray emission of the Galactic Plane, University of Heidelberg.
 - 2015-2019 PhD thesis co-supervision of V. Joshi. Title: Reconstruction and Analysis of Highest Energy γ -Rays and its Application to Pulsar Wind Nebulae, University of Heidelberg.

Master

- 2025 Master thesis supervision of I. Albanese, Title: Constraining the Very High-Energy Pulsed Emission from Crab Pulsar with LST-1, University of Padova (Italy). Grade: 110L/110.
- 2024 - 2025 Master thesis supervision of J. M. García Morillo. Title: Gamma-Ray Spectra from Young Stellar Clusters: A Simulation-Based Approach, University of Granada (Spain).Grade: 9.67/10.
- 2023 - 2024 Master thesis supervision of O. Arquero Peinazo. Title: Uso de herramientas de machine learning para la detección de rayos gamma en telescopios de Cherenkov, University of Granada (Spain). Grade: 9.02/10
- 2023 Master thesis supervision of G. Brunelli. Title: Very-High Energy γ -ray observations of the Geminga pulsar with the LST-1 of CTA, University of Bologna (Italy). Grade: 110L/110.

- 2023 Master thesis supervision of L. Gavira Balmacz. Title: Systematic Uncertainty studies of the Crab Pulsar spectrum using the LST-1 telescope of the Cherenkov Telescope Array Observatory, University of Granada (Spain). Grade: 10/10.
- 2022-2023 Master thesis supervision of R. Neshat. Title: Crab Analysis and Comparison of RF and CNN method of Reconstruction, IISER Kolkata (India). Grade: A+.
- 2020-2021 Master thesis co-supervision of L. Romanato. Title: Implementation of new Convolutional Neural Network methods for Imaging Atmospheric Cherenkov Telescope analysis and application to the Large-Sized Telescope of CTA, University of Milano Bicocca. Grade: 110L/110.
- 2019-2020 Master thesis supervision of P. Grespan. Title: Convolutional Neural Network data analysis development for the Large Sized Telescope of CTA and broadband study of the blazar 1ES 1959+650, University of Padova. Grade: 110L/110.
- 2018-2019 Master thesis supervision of N. Marinello. Title: Convolutional Neural Network Single-telescope reconstruction for the Large Size Telescope of CTA, University of Padova. Grade: 110/110.
- 2018-2019 Master thesis supervision of E. Mariotti. Title: Deep Learning on MAGIC: a Performance Evaluation for Very High Energy Gamma-Ray Astrophysics, University of Padova. Grade: 110L/110.

Other

- 2024-2025 JAE-Intro supervision of J. García Morillo, IAA-CSIC (Spain).
- 2024 Supervision of P. Crosas Gimeno, Winner of the “XXXIV Certamen Jóvenes Investigadores del CSIC”, IAA-CSIC (Spain).
- 2024 JAE-Intro supervision of C. Pozo González, IAA-CSIC (Spain).
- 2023-2024 Bachelor thesis supervision of G. Cano Amaro. Title: Procesado de imágenes del prototipo del Large-Sized-Telescope del Cherenkov Telescope Array Observatory mediante algoritmo de hormigas, University of Granada (Spain), Grade: 9.66/10.
- 2023 JAE-Intro supervision of L. Gavira Balmacz, IAA-CSIC (Spain).
- 2021 Bachelor thesis supervision of S. Fogliacco. Title: A Primordial Black Hole origin of Planet 9 and its observability through dark matter indirect observations with the MAGIC telescopes, University of Padova, Grade: 30/30.
- 2019 Google Summer of Code supervision of Juan Redondo Pizarro.

Referee activities

Journals: Science, Nature Astronomy, Nature Communications, Physical Review Letters, The Innovation, Science China Physics, Journal of Cosmology and Astroparticle Physics, Astrophysical Journal Letters, Astrophysical Journal Supplements, Astrophysical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Astroparticle Physics, Physical Review D, Physical Letters B, Mechanics & Astronomy, Journal of Astrophysics and Astronomy, Nuclear Instruments and Methods in Physics Research A, Measurements and EPJP Journal.

- September 2025 Expert evaluator of the PhD Thesis of Juan Palacios González, Universitat de València.
- May 2025 Member of the PhD Thesis Committee of Álvaro Más Aguilar, Universidad Complutense de Madrid.

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- January 2025 Project Referee of the Higher Education and Science Committee of the Republic of Armenia.
- May 2024 Member of the PhD Thesis Committee of Elia do Souto, Universitat Autònoma de Barcelona.
- April 2024 Referee of the Proyectos de Generación de Conocimiento 2023 Spanish National Program.
- May 2024 Member of the PhD Thesis Committee of Nicolò Cibrario, University of Torino.
- March 2023 Member of the PhD Thesis Committee of Leonardo Baroncelli, University of Bologna.
- May 2022 Committee member of a Postdoctoral Fellowship at CPPM.
- May 2022 Referee of the Marie Curie UNIPhD Doctoral Programme of the University of Padova.
- March 2022 Referee of the Proyectos de Generación de Conocimiento 2021 Spanish National Program.
- September 2021 Referee of the Italian Research Quality Assurance (VQR) 2015-2019.
- February 2021 Member of the PhD Thesis Committee of Nicolò Parmiggiani, University of Modena e Reggio Emilia.
- June 2020 Selection Announcement for the Awarding of Research Grants (type A), Department of Physics and Astronomy of the University of Padova.
- 2020 - Analysis and Quality Assurance referee of MAGIC.
- Present
- August 2019 Member of the PhD Thesis Committee of Maxim Laletin, University of Liège.
- April 2019 Project Referee of the Polish Academy of Science.

Teaching activities

- 2022, 2024 Lecturer at the LST Software School.
- 2021 Lecturer at the Master Course "Laboratory of computational physics" (24 hours), University of Padova, Italy.
- 2021 Lecturer at the PhD Course "Experimental Methods in Astroparticle Physics" (10 ECTS credits), University of Rijeka, Croatia.
- 2021 Lecturer at the MAGIC Software School.
- 2020 - Cultore della materia in "Astrofisica", Department of Physics and Astronomy, Padova, Italy.
- Present
- 2019 Lecturer at the "Multimessenger Data Analysis in the Era of CTA" school, Sexten, Italy.

Research Sojourns

- 2022 Five-Month visiting scientist at IAA-CSIC, Granada (Spain).
- 2021 Seven-Month visiting scientist at IAA-CSIC, Granada (Spain).
- 2019-2020 Two 2-week LST-1 shifts as Commissioning leader, La Palma (Spain).
- 2016 Readout installation for the HAWC upgrade, 1 week, HAWC Site (Mexico).
- 2016 HESS Data taking shift, 4 weeks, H.E.S.S. site (Namibia)
- 2016 HAWC Data taking shift, 1 week, HAWC Site (Mexico).
- 2013-2014 Topo-trigger development, 6 months, MPP, Munich (Germany).

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- 2012 Integration test of the Analog Trigger for CTA, 1 week, Paris (France).
- 2011 Commissioning of the upgraded MAGIC telescopes, 1 week, La Palma (Spain).
- 2010-2015 Five 3-week data taking shifts as Shift Leader in MAGIC, La Palma (Spain).
- 2009-2010 Three 1-week sojourns for detector tests, GSI, Darmstadt (Germany).
- 2009 Commissioning of a high-voltage divider, 1 week, CERN (Switzerland).

Visitors

- April 2023 Gabriele Panebianco, 13 weeks, Analysis of SGR J1935+2154 with the LST-1.
- October 2021 Iván Agudo, 1 week, LST-1 blazar analysis.
- October 2021 Juan Escudero, 2 weeks, Analysis of BL Lac with the LST-1.
- October 2021 José Enrique Ruiz, 3 weeks, provenance implementation in lstchain.
- July 2019 Abelardo Moralejo, 2 weeks, LST-1 analysis.
- January 2019 Nissim Fraija, 2 weeks, Supernova Remnants.
- January 2019 Yunior Pérez Araujo, 3 weeks, Working on EDGE.
- July 2018 Armelle Jardin Blicq, 4 weeks, HAWC analysis of 2HWC J1928+177.

Outreach activities

Talks and organization of events

- December 2024 “A Intelixencia Artificial Aplicada á Exploración do Universo”. Outreach talk at the AstroGalicía 2024. Role: speaker. Arzúa (Spain).
- October 2024 “La inteligencia artificial y sus aplicaciones a la astrofísica”. Outreach talk for high-school students. Role: speaker. IES Olontigi, Aznalcázar (Spain).
- October 2024 “Explorando los misterios del Universo: El Universo extremo revelado por los rayos cósmicos”. Outreach talk organized by the Astromares astronomical association. Role: speaker. Palomares del Río (Spain).
- October 2024 “El Universo Extremo visto con gafas de rayos gamma”. Outreach talk for high-school students. Role: speaker. IES Europa, Espartinas (Spain).
- July 2024 “IV Simposio Julio Palacios: Ciencias del Cosmos”. Role: moderator. Coruña (Spain).
- July 2024 “Los mensajeros del universo extremo”. Outreach talk in “Astronomía made in Spain”. Role: speaker. Granada (Spain).
- June 2024 “Observando os procesos de máis alta enerxía no universo mediante telescopios Cherenkov”. Outreach talk in the Ciclo “Avances en Ciencia e Tecnoloxía” of the Real Academia Galega de Ciencias. Role: speaker. Ferrol (Spain).
- June 2024 “La inteligencia artificial y sus aplicaciones a la astrofísica”. Outreach talk for high-school students. Role: speaker. IES Olontigi, Aznalcázar (Spain).
- Abril 2024 “Canibalismo Estelar en la Vía Láctea”. Outreach talk for high-school students. Role: speaker. Colegio Cooperativo Comfenalco, Santander, Bucaramanga (Colombia) (online).
- March 2024 “El Universo Extremo visto con gafas de rayos gamma”. Outreach talk for high-school students. Role: speaker. IES Europa, Espartinas (Spain).
- March 2024 “Explorando los misterios del Universo a través del viaje de los desconocidos Rayos Cósmicos”. Charla en el ciclo Lucas Lara. Role: speaker. IAA CSIC, Granada (Spain).

- May 2023 “La inteligencia artificial y sus aplicaciones a la astrofísica”. Outreach talk for high-school students. Role: speaker. IES Olontigi, Aznalcázar (Spain).
- April 2023 Outreach event “El Futuro de la Astrofísica de muy altas energías a través del Open Science: Oportunidades con el Cherenkov Telescope Array Observatory (CTAO)”. Role: speaker. Granada (Spain)
- September 2022 “Canibalismo estelar en la Vía Láctea”, European Researchers’ Night. Role: speaker. Granada (Spain).
- May 2022 “El Universo Extremo visto con gafas de rayos gamma”. Outreach talk for high-school students. Role: speaker. IES Olontigi, Aznalcázar (Spain).
- April 2022 Live event: #MeetTheMAGICians : Vampire stars!. Role: speaker.
- November 2021 International Cosmic Ray Day. Role: speaker. Legnaro (Italy).
- November 2021 “Astrofísica ad Alta Energia: L’Esplorazione dell’Universo più estremo”, Futuro Remoto 2021. Role: speaker. Naples (Italy).
- June 2021 Event by F. Aharonian: “PeVatron Physics in the context of LHAASO results”. Role: Host. Location: remote.
- November 2020 “Descrizione di uno strumento MAGICo alle isole Canarie”, European Researchers’ Night. Role: organizer and speaker. Padova (Italy).
- November 2020 Speed Date for the European Researchers’ Night, Role: speaker. Bologna (Italy).
- November 2019 International Cosmic Ray Day. Role: speaker. Legnaro (Italy).
- September 2019 European Researchers’ Night, Padova (Italy). Role: speaker.
- October 2019 Astrochat Night of CTA’s Around the World Program. Role: speaker. Bologna (Italy).
- March 2015 “El bosón de Higgs y los límites de la física”. Outreach talk for high-school students. Role: speaker. Institut Narcís Xifra, Girona (Spain).
- December 2012 “El bosón de Higgs”. Outreach talk for high-school students. Role: speaker. Col·legi Sant Josep, Tàrrrega (Spain).

Articles

- June 2023 Outreach article in the Summer 2023 SEA newsletter “Primeros resultados del LST-1 de CTA”
- July 2022 Outreach article in the IAA-CSIC newsletter, number 67: “Las estrellas de neutrones, sus entornos y su papel dentro de nuestra Galaxia”.

Press releases and media coverage

- August 2023 Press release and coverage: “Observations of the Crab Nebula and Pulsar with the Large-Sized Telescope Prototype of the Cherenkov Telescope Array”. Role: main investigator.
- April 2022 Press release and coverage: “MAGIC telescopes detect the explosion of a "vampire" star”. Role: main investigator.
- February 2022 Press release and coverage: “Pulsars could hide one of the keys to understanding how cosmic rays travel”. Role: main investigator.

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16/17

- June 2020 Press release and coverage: “CTA Prototype LST-1 Detects Very High Energy Emission from the Crab Pulsar”. Role: main investigator.
- December 2019 Press release and coverage: “The LST-1 Detects its First Gamma-Ray Signal”, Role: main investigator.
- November 2017 Press release and coverage: Publication in the Science journal of the article "Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth". More info in https://www.pd.infn.it/~rlopez/Press_coverage/index.htm, Role: main investigator.
- Other
- December 2024 Interview in the Radio Galega: program Efervescencia.
- August 2024 Interview in Sky & Telescope: “Magic in the air”.
- July 2024 Interview in Ser Granada: “Evento Astronomía mad in Spain”.
- August 2022 Interview in Radio 5: “Viajar por el espacio a través del sonido”.
- May 2022 “Explosión termonuclear en RS Ophiuchi.”. Podcast interview Ciencias.com. Role: speaker.
- April 2022 “Excess of antimatter in the vicinity of the Earth: does a pulsar hold the key to the mystery?”. Interview for Ciel & Espace.
- October 2020 “Best Practices for Colour Blind Friendly Publications and Descriptions" as part of CTA’s Astrodiversity project. Role: document editor.
- 2019 - Present Member of the CTA outreach committee.
- January 2018 “Origen Exótico de los positrones cósmicos”. Podcast interview Ciencias.com. Role: speaker.

Languages

Spanish	Native
English	Excellent
Italian	Excellent
Catalan	Excellent
German	Very Good
French	Good