



Rubén López-Coto

Curriculum Vitae

Personal Information

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

Nationality Spanish.

ORCID 0000-0002-3882-9477

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

2019–2025 **Abilitazione Scientifica Nazionale 02/A1**, *Fisica Sperimentale delle Interazioni Fondamentali*, Italy.

2019–2025 **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

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

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

2015–2017 **Postdoctoral Researcher**, *MPIK*, Heidelberg.

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- 2011–2015 **FPI-PhD-Fellow**, *IFAE*, Barcelona.
2010–2011 **Research scientist**, *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.

Responsibilities

- 2020–Present **Deep Learning Working Group coordinator of MAGIC.**
2020–Present **Speakers and Publication Office member of MAGIC.**
2020–Present **Galactic Working Group Coordinator of SWGO.**
2018–Present **Executive Board member of the LST of CTA.**
2018–Present **Software Co-Coordinator of the LST of CTA.**
2018–Present **Galactic Working Group Coordinator of MAGIC.**
2014–2015, **Member of the MAGIC Software Board**, *MAGIC Collaboration.*
2017–Present

Funds managing

- 2019–Present **Marie Skłodowska-Curie FELLINI funds (206,100 €).**

Scholarships and honours

- **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
- 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

- 2019–Present **SWGO Collaboration**, *165 members*,
Activities: Galactic Science, Fundamental Physics..
2015–Present **HAWC Collaboration**, *130 members*,
Activities: Outrigger electronics, Galactic physics, Cosmic ray propagation.

- 2011–2015, **CTA Collaboration**, *1500 members*,
 2017–Present Activities: Galactic physics, simulations and software development.
- 2010–2015, **MAGIC Collaboration**, *170 members*,
 2017–Present Activities: Cosmic ray studies, simulations, software and hardware development.
- 2015–2017 **H.E.S.S. Collaboration**, *200 members*,
 Activities: Galactic physics.
- 2009–2010 **SPECTRAP Collaboration**, *25 members*,
 Activities: Detector development.

Scientific societies

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

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

- December 2020 **1st Workshop on Gamma-ray Halos around Pulsars**, *Main organizer, 180 participants*, Padova, Italy (remote).
- June 2020 **MAGIC Collaboration meeting**, *Local organizing committee, 100 participants*, Padova, Italy (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 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 or made a significant contribution as it is indicated in every of the subsections.

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

- 2021 López-Coto, R., et al., *Progress in unveiling the physical mechanisms governing Gamma-ray Halos around pulsars*, **Nature Astronomy**, solicited review in preparation.
- 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

- 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.
- 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), *Observations of the Geminga pulsar and pulsar wind nebula with MAGIC*, **A&A**, 591, A138
- 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

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2013 Hannen, V., et al., *Detection system for forward emitted photons at the Experimental Storage Ring at GSI*, JInst, 09, P09018

Articles as Galactic Convener of MAGIC

2020 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*, accepted by A&A.

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 γ -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

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

2021 Acciari, V. A., et al., *Search for Very High Energy Emission from the millisecond pulsar J0218+42*, in preparation.

2021 Albert, A., et al., *Spectrum and Morphology of the Very-High-Energy Source HAWC J2019+368*, accepted by ApJ, arXiv:2101.01649

2021 Abdalla, H., et al., *TeV emission of Galactic plane sources with HAWC and H.E.S.S.*, submitted to ApJ.

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.

+ More than 100 collaboration articles, for a total of 151

Presentations

23 invited talks and seminars, 10 conference talks and more than 50 posters.

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5/10

Invited talks

- 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 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).

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6/10

- 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
- February 2021 An undiscovered pulsar as the origin of the cosmic ray all-electron spectrum. Conference: 43rd COSPAR Assembly, Sydney (Australia).
- November 2020 Title: 1stchain: 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).
- September 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).

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7/10

- + More than 50 conference proceedings
- + Several talks at MAGIC, HAWC, HESS, CTA and LST Collaboration meetings

Teaching activities

- 2021 Lecturer at the Master Course “Laboratory of computational physics” (24 hours), University of Padova, Italy.
- 2021 Lecturer at the Doctoral Course “Experimental Methods in Astroparticle Physics” (10 ECTS credits), University of Rijeka, Croatia.
- 2021 Lecturer at the MAGIC Software School.
- 2020 - Present Cultore della materia in “Astrofisica”, Department of Physics and Astronomy, Padova, Italy.
- 2019 Lecturer at the “Multimessenger Data Analysis in the Era of CTA”, Sexten, Italy.
- 2019 Google Summer of Code co-supervision of Juan Redondo Pizarro.
- 2018-Present PhD thesis co-supervision of A. Spolon, University of Padova.
- 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 co-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 co-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 co-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.
- 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.

Referee activities

- Journal Referee of Nature Astronomy, Nature Communications, Physical Review Letters, Physical Review D, Astrophysical Journal, Astroparticle Physics and EPJP Journal.
- 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 - Present Analysis and Quality Assurance referee of MAGIC.
- August 2019 Member of the PhD Thesis Committee of Maxim Laletin, University of Liège.
- April 2019 Project Referee of the Polish Academy of Science.

Internal referee of HAWC and MAGIC.

Research Sojourns

- 2019-2020 Two LST-1 shifts as Commissioning leader, La Palma (Spain)
 - 2016 Readout installation for the HAWC upgrade, HAWC Site (Mexico).
 - 2016 HESS Data taking shift, H.E.S.S. site (Namibia)
 - 2016 HAWC Data taking shift, HAWC Site (Mexico).
- 2013-2014 Six month sojourn to work on the development of a new concept of trigger for IACTs, the Topo-trigger at MPP, Munich (Germany).
 - 2012 One week Integration test of the Analog Trigger for CTA, Paris (France).
 - 2011 Commissioning of the upgraded MAGIC telescopes, La Palma (Spain).
- 2010-2015 Several data taking shifts as Shift Leader in MAGIC, La Palma (Spain)
- 2009-2010 Several sojourns during beamtimes for test and commissioning of detection systems, GSI, Darmstadt (Germany).
 - 2009 Commissioning of a high-voltage divider for measurements at CERN.

Outreach activities

- November 2020 “Descrizione di uno strumento MAGICo alle isole Canarie”, European Researchers’ Night, Padova (Italy).
- November 2020 Speed Date for the European Researchers’ Night, Bologna (Italy).
- October 2020 “Best Practices for Colour Blind Friendly Publications and Descriptions” as part of CTA’s Astrodiversity project.
- June 2020 Press release and coverage: “CTA Prototype LST-1 Detects Very High Energy Emission from the Crab Pulsar”.
- December 2019 Press release and coverage: “The LST-1 Detects its First Gamma-Ray Signal”.
- November 2019 International Cosmic Ray Day, Legnaro (Italy).
- October 2019 Astrochat Night of CTA’s Around the World Program, Bologna (Italy).
 - 2019 - Member of the CTA outreach committee.
 - Present
- September 2019 European Researchers’ Night, Padova (Italy).
- January 2018 “Origen Exótico de los positrones cósmicos”. Podcast interview Ciencias.com.
- 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
- March 2015 “El bosón de Higgs y los límites de la física” . Outreach talk for high-school students, Institut Narcís Xifra, Girona (Spain).
- December 2012 “El bosón de Higgs”. Outreach talk for high-school students, Col·legi Sant Josep, Tàrrrega (Spain).

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9/10

Languages

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