

Date of the CVA	31/05/2018
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Section A. PERSONAL DATA

Name and Surname	FRANCISCO JESUS CARRERA TROYANO		
DNI	13762716E	Age	52
Researcher's identification number	Researcher ID	H-1471-2015	
	Scopus Author ID	7005307803	
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A.1. Current professional situation

Institution	UNIVERSIDAD DE CANTABRIA		
Dpt. / Centre			
Address	BO El Jurrió 2, 39612, Parbayón		
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Professional category	Catedrático de Universidad	Start date	2018
UNESCO spec. code	210109 - Quasars		
Keywords			

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Doctor en Ciencias (Físicas)	UNIVERSIDAD DE CANTABRIA	1992
Licenciado en Ciencias (De Físicas) (Física Fundamental)	UNIVERSIDAD DE CANTABRIA	1988

A.3. General quality indicators of scientific production

In bibliometric terms my research career can be summarised (ISI) in 123 research articles in Astronomy journals virtually all of the first quartile, with more than 3400 citations (Hirsh index $h=37$), 66 further publications in conference proceedings and 40 more contributions to conferences (most of them international). All this activity has evaluated objectively with the four "tramos de investigación" (six year periods) that are possible for me at the moment (1989-2012).

Section B. SUMMARY OF THE CURRICULUM

General Summary

My academic career started at the Universidad de Cantabria (UC) where I got my Ph. D. in June 1992 (sup. Prof. X. Barcons). I have since held post-doctoral positions in research centres in the UK and Spain, becoming University Lecturer in the UC in February 2000, and full Professor in January 2018. I am a member of the Instituto de Física de Cantabria (IFCA, joint centre of the Spanish Council for Scientific Research -CSIC- and the UC). During this time I have performed extensive research and teaching activities, with an important component of activities dedicated to the public understanding of science (outreach) and academic management.

In broad lines, my research has been mainly on multi-wavelength extragalactic Astronomy, especially Active Galactic Nuclei (in particular the obscured ones) and their influence on their host galaxies

Mission proposals

The European Space Agency (ESA) selected Athena as its second large mission (L2) in June 2014. I played a significant role in the proposal and I am currently co-chair of the Topical Panel "Understanding the Build-up of Supermassive Black Holes and Galaxies" appointed by ESA's Athena Study Science Team. I am Director of the Athena Community Office.

Research projects

All this activity has been funded continuously through competitive national and international research projects. I have been PI of seven of those projects.

Service in committees

I act regularly as referee for international journals, I participate in international Time Allocation Committees for spatial observatories (XMM-Newton, Suzaku), in Science and Local Organizing Committees for conferences, and in national and international panels to evaluate research projects. In addition, I have been a member and have chaired the Gran Telescopio Canarias Users Committee and the Science Advisory Committee of the European Virtual Observatory.

Teaching

During all these years I have taught numerous under- and post-graduate courses, both on compulsory and optional subjects and on the Physics and Mathematics degrees. Creating many of them from scratch and acting as coordinator of several each course.

Supervision of PhD and Bsc Theses

In total I have supervised one Ph. D. Thesis alone and five more in collaboration, all of whom hold currently post-doctoral positions in Astronomy. I am currently supervising another Ph. D. Thesis alone and co-supervising another one, both expected to finish in 2018. I have also supervised one M. Sc. Thesis and three B. Sc. Theses in Physics and Engineering. I am also serving regularly in BSc panels.

Academic management

I was Vice-director of IFCA between 2004 and 2008. I was director (formally appointed on November 19, 2008) of the "Observatorio Astronómico de Cantabria" (a facility of the "Consejería de Medio Ambiente" of the regional government of Cantabria) between April 2007 and September 2009. I designed and started its scientific, observational, didactical and dissemination activities.

Outreach

I have combined all the previous aspects with an intensive outreach activity: I have given many talks about Astronomy in High Schools and amateur astronomer societies, and organised and taught University Summer Courses. Additionally, I was the point of contact in the UC for the International Year of Astronomy 2009. I also collaborate regularly in the dissemination activities organised by IFCA and UC (Weeks of Science, Nights of Researchers, exhibitions...).

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- 1 **Scientific paper.** L. Spinoglio; et al. 2017. Galaxy Evolution Studies with the SPace IR Telescope for Cosmology and Astrophysics (SPICA): The Power of IR Spectroscopy Publications of the Astronomical Society of Australia. 34. ISSN 1448-6083.
- 2 **Scientific paper.** SILVIA MATEOS IBAÑEZ; et al. 2017. Survival of the Obscuring Torus in the Most Powerful Active Galactic Nuclei The Astrophysical Journal. 841-2, pp.18. ISSN 2041-8213.
- 3 **Scientific paper.** G. Mountrichas; et al. 2017. Searching for luminous absorbed sources in the WISE AGN catalogue Monthly Notices of the Royal Astronomical Society. 468-3, pp.3042-3050. ISSN 1365-2966.
- 4 **Scientific paper.** F.-X. Pineau; et al. 2017. Probabilistic multi-catalogue positional cross-match Astronomy & Astrophysics. 597. ISSN 1432-0746.
- 5 **Scientific paper.** S. R. Rosen; et al. 2016. The XMM-Newton serendipitous survey. VII. The third XMM-Newton serendipitous source catalogue Astronomy & Astrophysics. 590, pp.1-22. ISSN 1432-0746.

C.2. Participation in R&D and Innovation projects

- 1 LAS GALAXIAS CERCANAS Y LEJANAS Y SUS NÚCLEOS ACTIVOS (AYA2015-64346-C2-1-P) (MINECO/FEDER, UE) MINISTERIO DE ECONOMIA Y COMPETITIVIDAD. ALMUDENA ALONSO HERRERO. (UNIVERSIDAD DE CANTABRIA). From 01/01/2016. 120.879 €.
- 2 EXPANDIENDO LA CIENCIA: ¡¡¡INVESTIGADORES EN LA ESCUELA!!! FUNDACION ESPANOLA PARA LA CIENCIA Y LA TECNOLOGIA (FECYT). ROCIO VILAR CORTABITARTE. (UNIVERSIDAD DE CANTABRIA). From 15/09/2014. 1.440 €.
- 3 ARCHES: ASTRONOMICAL RESOURCE CROSS-MATCHING FOR HIGH ENERGY STUDIES COMISION EUROPEA; UNIVERSITE DE STRASBOURG. FRANCISCO JESUS CARRERA TROYANO. (UNIVERSIDAD DE CANTABRIA). From 01/01/2013. 201.600 €.
- 4 UNA VISIÓN MULTI-FRECUENCIA DE AGN Y LAS GALAXIAS QUE LOS ALBERGAN A LO LARGO DEL TIEMPO (AYA2012-31447) MINISTERIO DE ECONOMIA Y COMPETITIVIDAD. ALMUDENA ALONSO HERRERO. (UNIVERSIDAD DE CANTABRIA). From 01/01/2013. 215.280 €.
- 5 COMPRENDIENDO EL UNIVERSO ACTIVO: DESDE DETECTORES A NUCLEOS ACTIVOS (AYA2010-21490-C02-01) MINISTERIO DE ECONOMIA Y COMPETITIVIDAD - SECRETARIA DE ESTADO DE INVESTIGACION, DESARROLLO E INNOVACION. FRANCISCO JESUS CARRERA TROYANO. (UNIVERSIDAD DE CANTABRIA). From 01/01/2011. 254.100 €.
- 6 X-ray Astronomy missions: from XMM-Newton to SIMBOL-X and IXO Dirección general de Investigación y gestión del plan nacional de I+D+i. FRANCESC XAVIER BARCONS JAUREGUI. (CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)). From 01/01/2010. 175.450 €.

C.3. Participation in R&D and Innovation contracts

COORDINACION DE LAS ACTIVIDADES CIENTIFICAS, OBSERVACIONALES, DIDACTICAS Y DIVULGATIVAS DEL OBSERVATORIO ASTRONOMICO DE CANTABRIA CENTRO DE INVESTIGACION DEL MEDIO AMBIENTE - CIMA. FRANCISCO JESUS CARRERA TROYANO. 29/11/2007-01/01/2011. 188.935,62 €.

C.4. Patents