

CURRICULUM VITAE

16 July 2009

D.N.I.: 13.762.716. Santander, 8-5-1996

Surname and name: Carrera Troyano, Francisco Jesús.

Birth: Veracruz, Veracruz, México.

Date: 6-10-1965.

Home address: Barrio El Jurrió, 2.

Postcode: 39612 Parbayón.

Country: Spain.

Phone: (942) 586828

Institution: Universidad de Cantabria.

Department: Instituto de Física de Cantabria

UNESCO: 2101.15

Profile: Astronomy and Astrophysics. Extragalactic Astrophysics. X-ray Astronomy. X-ray background. Observatories: *XMM-Newton*

ACADEMIC TITLES

Degree in Physics. Universidad de Cantabria. June, 1988. Score: 9/10.

Doctor in Physics, Universidad de Cantabria (Departamento de Física Moderna). June, 1992. Score: Apto *cum Laude*. Title: “Anisotropías en el Fondo Cósmico de Rayos X”. Supervisor: Dr. Xavier Barcons.

ACADEMIC POSTS

“Research Fellow” and “Senior Research Fellow” at University College London – Mullard Space Science Laboratory from January 1993 to March 1996 and from April 1999 to February 2000, respectively

CSIC Postdoctoral fellow since April 1996 until March 1999 at the Instituto de Física de Cantabria

Profesor Titular de Universidad at the Departamento de Física Moderna of the Universidad de Cantabria since 28 February 2000.

FUNDED RESEARCH PROJECTS

“Coordinación de las actividades didácticas, divulgativas, observacionales y científicas del Observatorio Astronómico de Cantabria”. Consejería de Medio Ambiente of Gobierno de Cantabria, 1 October 30 to 30 June 2009. P.I.: Francisco J. Carrera. Researchers: 1. Amount: 120000EUR

“Participación en las misiones de Astronomía de rayos X de la Agencia Europea del Espacio”. Plan Nacional del Espacio, ESP 2006-13608-C02-01, 1-10-2006 to 30-9-2009. P.I.: X. Barcons. Researchers: 13. Amount: 609840EUR

Six earlier national projects as P.I. (total amount:123551EUR) and another six as col

PUBLICATIONS

Ebrero J., Mateos S., Stewart G.C., **Carrera F.J.**, Watson M.G., 2009, “High-precision multi-band measurements of the angular clustering of X-ray sources”, *A&A*, 500, 749

Arnaud M., Barcons X., Barret D., Bautz M., Bellazzini R., Bleeker J., Böhringer H., Boller T., Brandt W.N., Cappi M., **Carrera F.J.**, et al., 2009, “XEUS: the physics of the hot evolving universe”, *Experimental Astronomy*, 23, 139

Del Moro A., Watson M.G., Mateos S., Akiyama M., Hashimoto Y., Tamura N., Ohta K., **Carrera F.J.**, Stewart G., 2009, “An extreme EXO: a type 2 QSO at $z = 1.87$ ”, *A&A*, 493, 445

Watson M.G., Schröder A.C., Fyfe D., Page C.G., Lamer G., Mateos S., Pye J., Sakano M., Rosen S., Ballet J., Barcons X., Barret D., Boller T., Brunner H., Brusa M., Caccianiga A., **Carrera F.J.**, et al., 2009, “The XMM-Newton serendipitous survey. V. The Second XMM-Newton serendipitous source catalogue”, *A&A*, 493, 339

Ebrero J., **Carrera F.J.**, Page M.J., Silverman J.D., Barcons X., Ceballos M.T., Corral A., Della Ceca R., Watson M.G., 2009, “The XMM-Newton serendipitous survey. VI. The X-ray luminosity function”, *A&A*, 493, 55

Sixty nine earlier publications, eight as first author

Seven conference proceedings in the *Science Citation Index* and forty more not in that index

PRESENTATIONS IN CONFERENCES

Talk about “Obscured AGN growth and galaxy formation: synergies between low and high energies” in the conference “Impact of ALMA on the Spanish Extragalactic Astronomy”, Granada (Spain), 11-13 February 2009

Talk about “X-ray source populations from the XMM-Newton Medium Survey” in the conference “X-ray Universe”, Granada (Spain), 26-30 May 2008

Talk about “X-ray source populations from the XMM-Newton Medium Survey” in the Workshop “X-ray Surveys: Evolution of Accretion, Star-Formation and the Large Scale Structure”, Rodas (Greece), 2-6 July 2007

Talk about “Beyond the Lockman Hole: spectroscopy of the absorbed Universe” in the Workshop “XMM-Newton: the Next Decade”, ESAC (Madrid), 4-6 June 2007

Talk about “An XMM-Newton study of Hyper Luminous Infrared Galaxies” in the Workshop “XEUS: Visions of the Extreme Universe”, London (United Kingdom). 2-4 April 2007

Talk about “Obscured and unobscured growth of supermassive black holes from the XMM-Newton Medium sensitivity Survey” in the Workshop “Extragalactic Surveys”, Boston (United States). 6-8 November 2006

Talk about “The XMM-Newton and Spitzer view of galaxy/AGN formation at $z = 2 - 3$ ” in the Workshop “X-ray Universe’05”, El Escorial (Spain). 26-30 September 2005

Twelve earlier talks since 1991

SUPERVISION OF PhD THESES

“Espectroscopía de galaxias activas distantes detectadas con el observatorio *XMM-Newton*”, Silvia Mateos, co-supervised with Prof. X. Barcons. Date: 21 de Diciembre de 2006. Score: Sobresaliente *cum laude*

“Evolution and large-scale clustering of a sample of extragalactic X-ray sources”, Jacobo Ebrero. Date: 11 de Diciembre de 2008. Score: Sobresaliente *cum laude*

PARTICIPATION IN COMMITTEES AND INTERNATIONAL BODIES

Co-Investigator of the “*XMM-Newton* Survey Science Centre” Consortium since January 2004. This consortium is formed by 10 European research Institutes and has the rank of instrument within the *XMM-Newton* mission of the European Space Agency

Member of the Steering Group of *XMM* Survey Science Centre since October 2004

Member of the Euro Virtual Observatory Science Advisory Committee since September 2005 and Chair since July 2009

Member of the *XEUS* Astrophysics Working Group since February 2005 until September 2008

Science Associate of the IXO ESA-NASA-JAXA project (an international X-ray observatory)

Member of the Time Allocation Committee of the *XMM-Newton* observatory in AO-3, AO-4, AO-7 and AO-8 (2003, 2004, 2007 and 2008)

EXPERIENCE IN R&D MANAGEMENT

Coordinator of an international team to develop the data processing software for the EU-RECA project (a prototype for a microcalorimeter for the ESA *XEUS* project) since summer 2007

Vicedirector of the Instituto de Física de Cantabria since 7 January 2004 to 7 January 2008

Coordinator of two earlier X-ray source identification projects

TEACHING EXPERIENCE

Coordinator of two subjects in the third course of the Physics Degree at the Facultad de Ciencias (U. de Cantabria) since 2002 and 2006

Coordinator of two subjects of the Mastter in Physics (U. Cantabria) since 2001 (before 2007 were PhD courses)

Teaching yearly in other PhD and Master courses since 2000

OTHER MERITS

Large Facilities

Regular user of *XMM-Newton* (ESA), La Palma (WHT, INT, NOT, TNG, Spain), Calar Alto (3.5m, 2.2m, Spain)

Occasional user of the VLT (ESO, Chile), GTC (Spain), JCMT (Mauna Kea, United States), *ASCA*, *Ginga*, *ROSAT*, and *IUE*

Others

Full member of the “Sociedad Española de Astronomía” since September 1993

Fellow of the Royal Astronomical Society since July 1998

Director of the “Observatorio Astronómico de Cantabria” since July 2007. This is a local-regional-government-owned astronomical facility oriented to the public understanding of science, organization of activities in schools and astronomical observations, with the collaboration of the U. de Cantabria (through IFCA) and the amateur Agrupación Astronómica Cántabra

Around 15 talks to the general public between 2004 and 2009

Director of three summer courses of the University of Cantabria in years 2007, 2008 and 2009