

# Bruno Sánchez-Andrade Nuño

Asturias, Spain, 05/06/1981

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## EDUCATION

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- 2005-2008 **PhD in Solar Physics. Observations, Modeling and Analysis of the Sun's atmosphere**  
Max Planck Institute for Solar System Research / University of Göttingen (Germany)
- 2003-2004 **Degree in Astrophysics.** Minors in Instrumentation, observations, data analysis, atmospheric physics  
Universidad de La Laguna. Tenerife (Spain)
- 1999-2003 **B.A. in Physics.** Minors in Numerical simulation, statistics, autonomous systems, fractal geometry  
Universidad de Oviedo (Spain)

## PROFESSIONAL EXPERIENCE

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- 2008-pres. **US Naval Research Laboratory**, Washington, D.C.  
NASA Contractor, Research Assistant Professor from George Mason University, Space Science Division  
Space and Rocket Scientist. Data manager and curator. Lead programmer. Space mission proposals.
- 2008 **Max Planck for Solar System Research** / Institut Für Astrophysics, Göttingen (Germany)  
Postdoc Researcher. Principal Investigator. Project manager. Conference manager. Software & Hardware developer.  
Independent Research. Remote sensing. Signal processing. Lead Software development.

## WORK

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- 2009-pres. Elected member of the Council for Foreign Residents at the Spanish Consulate in Washington DC.
- 2009 Founder and Chairman of the Solar Group for the International Year of Astronomy 2009 (endorsed by UNESCO)
- 2009 Panel reviewer for US National Science Foundation.
- 2008-2003 Project Manager at AEGEE (NGO). Duties both local and european (Treasurer, Secretary, IT, Logistics).
- 2007 AEGEE Summer University Project Manager, Slovenia.
- 2004-1999 Member of **Civil Protection** in Gijón. Firemen, Police & Paramedics support. +400 hours of duty service.
- 2004-2001 Organizer of several European Traveling Summer Universities and other international events.
- 2003 Main IT Manager of AGORA-AEGEE (major international students conference, +1000 attendees).
- 2002-2001 Student representative of the Faculty of Science. University of Oviedo.
- 2002 Faculty Council member of the Faculty of Science. University of Oviedo.

## LANGUAGES

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SPANISH: Native      ENGLISH: Fluent      GERMAN: Working knowledge      FRENCH: Intermediate.

## SKILLS

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- 2009 Invited Lecturer "Cátedra Magistral Mutis". National University of Colombia, Bogotá. (~1600 attendees)
- 2009-2005 Several Scientific articles and interviews on mainstream newspapers (including cover page article).
- Computers:** Advanced user and administrator in Windows, Linux, MacOSX and Sun; Proficiency in MS Office, OpenOffice.org, iWork, LaTeX; Software developer. Web design and scripting (HTML, XML, Wordpress, PHP, CMS, Drupal, Heyu) Expert in scientific/mathematical tools: statistics, image analysis, multithread optimization.
- International Working Experience:** USA, Spain, Germany, Italy, Greece, Turkey, Poland, Estonia, Hungary, Colombia

## SELECTED TRAININGS

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- 2008-2010 US Department of Defense security clearance to work at the Naval Research Laboratory as Foreign National Contractor. Courses included: Information Assurance, Network Security, Environmental Management Systems.
- 2005 Project Management Seminar, Hofgeismar Germany (Max Planck Institute).
- 2003 European School NGO Management (AEGEE), Turkey
- 2004-2002 **Civil Protection** Courses on: Security, Emergency operations, firefighter, traffic warden, medical first aid.

## SELECTED PEER-REVIEWED PUBLICATIONS

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- Sánchez-Andrade Nuno, B. et al. "Spicule emission profiles observed in He I 10 830 Å". 2007A&A...472L..51S
- Sánchez-Andrade Nuno, B. et al. "Fast events and waves in an active region of the Sun observed in H $\alpha$  with high spatial resolution". 2008A&A...486..577S
- Vourlidas, A., [Sánchez-Andrade Nuno, B.] et al. "The Structure and Dynamics of the Upper Chromosphere and Lower Transition Region as Revealed by the Subarcsecond VAULT Observations". 2010SoPh..261...53V

## LEADERSHIP SKILLS AND AWARDS

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Member of the American Association for the Advancement of Science, the Royal Spanish Academy of Physics. PhD fellowship from Max Planck. Practical experience in formal and non-formal outreach events. PhD magna cum laude. Honors in Computing Analysis as undergrad. ESA Astronaut Selection preliminary Candidate (2008). Sports: Running (10M), Climbing (grade 7-).