

Dr. Juan A. Añel

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PERSONAL INFORMATION: Birth: December 5th, 1978; Ourense, SPAIN; Citizenship: SPAIN

FIELDS OF EXPERTISE: Atmospheric Sciences (Meteorology, Climate, Extreme weather); Renewable Energy; Climate Modelling; Climate Data; Open Science.

RELEVANT IPCC/UN COP /WMO EXPERIENCE:

- Expert reviewer for IPCC-WGI Fifth and Sixth Assessment Reports and the IPCC Special Report on 1.5 °C.
- Observer for the United Kingdom at the UN COP19 Conference (11/2013, Warsaw, Poland).
- Coauthor of the WCRP/SPARC report on 'Assessment of stratospheric trace gas and aerosol climatologies from satellite limb sounders' (2017).
- Coauthor of the WCRP/SPARC CCMVal2 Report on Validation of Chemistry Climate Models (2010).
- Member of the European Geosciences Union Database of Experts on Policy (2016-...).
- Coauthor of the 2013 and 2014 American Meteorological Society reports on Extreme Weather Events.
- Co-leader of the WMO/SPARC Tropopause Initiative (08/2009–09/2011).

EDUCATION

- *Ph.D., Physics*, Universidade de Vigo (Ourense, Spain), 2003-2007. Dissertation: *Climatic analysis of the tropopause from radiosonde data - Sobresaliente* CUM LAUDE (highest qualification).
- *Advanced Studies Diploma in Physics*, 2004, Univ Vigo Sobresaliente (highest qualification).
- *BSc., Physics - Atmospheric and Environmental Physics track -*, 2002, Universidade de Vigo.

PROFESSIONAL EMPLOYMENT

- 'Ramón y Cajal' Senior Scientist, Univ. de Vigo (11/2014-...) – listed in the 1st position in Earth Sciences.
- Senior Visiting Research Associate, Univ. of Oxford (11/2014-10/2016).
- Research Fellow in Climate & Climateprediction.net Science Coord., Univ. of Oxford (10/2011-09/2014).
- Project Scientist, Univ. de Vigo (01/2013-10/2014)
- 'Ángeles Alvariño Research Fellow' in Climate Sciences, Univ Vigo (2009-09/2011).
- Portuguese National Science Foundation Postdoctoral Researcher, CESAM, Univ Aveiro (2008-2009).
- Research Fellow, Universidade de Vigo (10-12/2007).
- Research Assistant, Universidade de Vigo (2004-2007).
- Research Assistant, Universidad Complutense de Madrid (2003).
- Others:
 - Secretary/Treasurer of the Atmosphere & Ocean Sciences Chapter of the Royal Spanish Society of Physics (2016-...)
 - Codirector of the [NATURGY Chair](#) at the Universidade de Vigo (05/2017-...)
 - Evaluator for the Deutscher Akademischer Austauschdienst (DAAD)(2017-2022)

- Affiliate in [Economics for Energy](#) (SPAIN) (2013-...)
- Research stays: *Institute for Systems and Computer Engineering, Technology and Science, Univ. of Porto (Portugal)* (07-12/2018); *Dept. Applied Mathematics & Theoretical Physics, Univ of Cambridge (U.K.)* (09-11/2010); *National Center for Atmospheric Research (USA)* (06/2009-12/2009 & 11/2016); *Supercomputing Center of Galicia (SPAIN)* (11/2008); *Camagüey Lidar Center (CUBA)* (02/2008); *Dept of Physics, Univ Aveiro (PORTUGAL)* (06-09/2005; 07-10/2006; 01-10/2007).

HONORS AND AWARDS

- [Universidade de Vigo 'Water Campus' Best Outreach Activity 2017](#)
- [Best abstract in Environmental Sciences - Symposium Society of Spanish Researchers in the UK 2013](#)
- [Profiled by SCIENCE 01/2009 \(Vol. 323, Issue 5914\)](#)
- [Gulbenkian Young Researcher Prize in Geosciences 2008](#)
- [Universidade de Vigo Outstanding PhD Thesis Award 2008](#)

TEACHING AND MENTORING

- **BSc. and MSc. in Physics, Hertford College, Univ. of Oxford:** Flows, Fluctuations and Complexity (2013/2014-2014/2015).
- **MSc. in Climate Sciences, Universidade de Vigo:** Computational Resources for Climate Research (2009/2010-2011/2012); Observed Atmospheric Change (2009-2010; 2010-2011); Atmospheric Wave Fluxes (2012/2013).
- **MSc. in Applied Physics, Universidade de Vigo** (85 hours/year): Physics of variability and climate change (2007/08-2009/10); Atmospheric & Environmental Physics (2007/08-2009/10); Fundamentals of Atmospheric & Climate Models (2007/08-2009/10).
- **MSc. in Computer Sciences, Universidade de Vigo:** Introduction to Free Software (2010-2011).
- **BSc. in Food Technology, Universidade de Vigo:** Physics II (2009-2010; 2010-2011).
- **BSc. in Physics, Universidade de Vigo:** Atmospheric Physics Lab (from 2004/05 to 2007/08); Energy and Environment (from 2004/05 to 2007/08); Remote Sensing Lab.; Meteorological Analysis and Forecast (2006- 15 hours -;2007-2008).
- **BSc. in Environmental Sciences & Technology, Universidade de Vigo:** Introduction to Atmospheric and Environmental Physics Lab. (from 2004/05 to 2007/08). & **Physics II & Air quality analysis & Remote sensing & GIS** (since 2016/17)
- **Ph.D. students supervision:** Victor Manuel Chávez Pérez - ongoing - (Physics) & Manuel Fernández González - ongoing - (Physics) & Diego Antonio Pérez Montes - ongoing - (Computational Sciences) & Ignacio Ramírez González -ongoing (Physics) & Michael García Fernández (Computational Sciences) & Susana Bayo Besteiro (Physics)
- **Master students supervision:** Gabriel A. González Reyes 9.5/10.0 - MSc. in Management of Sustainable Development (NATURGY Best MSc Project Award, UVigo Best MSc Project in Sustainability) & Michael García Fernández 9.2/10.0 and 2nd place Free Software Awards of Galicia - MSc. in Computational Sciences & Pablo Vázquez Caderno 7.0/10 - MSc. in High Performance Computing & Diego Pérez Montes 10.0/10.0 and Best Master Project Award - MSc. in High Performance Computing & M. Blanco-Durán 10.0/10.0 - Adv. Studies Diploma in Applied Physics & M. D. Valentí-Pía 10.0/10.0 (highest qualification).- MSc. in Climate Sciences

PROFESSIONAL COMMUNITY INVOLVEMENT

- Reviewer of research projects for the Spanish National Agency of Evaluation (ANEP).
- Member of the Editorial Board of PLoS ONE (07/2008–12/2013) and Section Editor on Physics of Climate and Atmospheric Sciences since 12/2013.

- Member of the Editorial Board of Geosc. Mod. Dev. since 06/2018.
- Editor-in-Chief for the Atmospheric Sciences Newsletter of AGU (01/2009-12/2010).
- Reporter for the Atmospheric Sciences Newsletter of AGU (12/2006–12/2008).
- Reviewer of research projects for the Spanish National Science Agency: 9 projects
- Manuscript Reviewer for SCI Journals: 87 reviews for 26 journals
- Book reviewer for 'Contemporary Physics'
- Memberships: Royal Spanish Physics Society, Free Software Foundation, European Geosciences Union (formerly American Geophysical Union)

PUBLICATIONS RECORD (full list available from the web page)

- 44 SCI papers
- 2 scientific books (editor) + 11 chapters in books.
- 6 book reviews for Contemporary Physics
- 28 invited oral presentations/seminars in courses, workshops and international congresses and the Royal Academy of Sciences of Galicia.
- > 40 communications in international congresses as lead author. + > 100 presentations as coauthor.
- 15 articles in other publications

GRANTS AND PARTICIPATION IN FUNDED PROJECTS THROUGH COMPETITIVE OPEN CALLS

- **21 Grants for personal development funded by:** *International Astronautical Federation/European Space Agency; European Science Foundation (ESF); SPARC/WCRP and several European Institutions and Research Centres.*
- **As Principal Investigator:** 2 research projects funded by the Government of Spain (443757 euros) + 1 project funded by the Regional Government of Galicia (90000 euros) + 1 project funded by Microsoft Research (USD 40000) + 2 projects funded by Google Enterprise (USD 25000) + 1 Research Contract with Royal Bank of Scotland (£50000 + VAT) + 1 project by the Calouste Gulbenkian Foundation (10000 euros) + 1 project by the EPSRC-Univ. Oxford (£8320) + 2 Naturgy Chair (120000 euros) + 1 contract with Chair GAS NATURAL FENOSA (£6000) + 3 project for Scientific Dissemination by Consello Social Universidade de Vigo (10767 euros) + 4 projects by the Supercomputing Centre of Galicia and the Barcelona Supercomputing Centre (co-PI) (3545240 hours – aprox. equivalent £950.000)
- Participation in another **32 research projects** funded with more than **3 million euros** (for all the participants) by: *European Union, Government of Spain and Regional and Local Institutions.*
- **International scientific cooperation:** participation in 4 international scientific cooperation projects and 2 COST Actions funded by the European Science Foundation.

OTHERS

- Offers to serve as Invited Editor for the board of journals: 'Frontiers in Atmospheric Sciences', 'Frontiers in Environmental Sciences', 'Advances in Meteorology', 'The Open Atmospheric Sciences Journal' and 'International Journal of Water conservancy and Environmental Engineering' (all declined)
- Moderator of a discussion panel on Planetary Sciences at the Spanish Embassy in the UK (09/2013)
- Attended 3 Teaching Courses + 3 courses on Scientific Communication and public speaking + 12 Courses in Geosciences and Computational Sciences + 1 Course on Project Management + 1 course on recruitment techniques
- Partnership with Hegglin Scientific (Switzerland) for the evaluation of the PREMIER satellite mission
- I impulsed the University of Oxford - Universidade de Vigo ERASMUS Agreement

- Member of the jury in the Universidade de Vigo Competitive Debate Championship
- Member of the Executive Committee of Atmospheric Sciences of the American Geophysical Union (2009-2010).
- Member of the Ph.D. Thesis dissertation panel of Ana María Durán Quesada (07/2012 - Univ. Vigo); external reviewer for the Ph.D. Thesis of Alexandre Manuel da Fonseca Ramos (07/2012 - Univ. Vigo)
- 2012-2014 Academic Visitor at Somerville College (Oxford)
- 2012-2015 Research Membership of the Common Room at Wolfson College (Oxford) (declined)
- Organizer and co-organizer of 11 workshops on High Performance Computing, Climate Sciences and Free Software. Convener of the "FLOSS for Scientist" devroom in the FOSDEM 2013 Congress.
- Editor in chief for GNUticias (2004–present)(online bulletin of the GNU Project in Spanish & GNU Spain Chapter official speaker (2004–present).
- >90 interviews for TV, newspapers and radio + 10 opinion articles in newspapers. Media coverage of research results in media in the USA, United Kingdom, Spain, Portugal, Middle East, etc.

November 18, 2019