MINISTERIO DE CIENCIA E INNOVACIÓN

Cofinanciado por la Unión Europea

AGENCIA ESTATAL DE INVESTIGACIÓN

CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION

First name	Manuel		
Family name	Antón Martínez		

A.1. Current position

Position	Catedrático de Universidad (Full professor)	
Initial date	2025	
Institution	University of Extremadura	
Department/Center	Physics	Faculty of Sciences
Country	Spain	
Key words	ozone, wáter vapour, solar radiation	

A.2. Previous positions

Period	Position/Institution/Country
2002-2005	FPU Fellowship, University of Extremadura, Badajoz (Spain)
2005-2006	Research Fellowship, AEMET, Madrid (Spain)
2006-2007	Profesor Ayudante (Assistant professor), University of Extremadura, Badajoz (Spain)
2007-2008	Posdoc position, University of Extremadura, Badajoz (Spain)
2009-2010	Posdoc position, University of Evora, Evora (Portugal)
2010-2012	“Juan de la Cierva” posdoc position, University of Granada, Granada (Spain)
2012-2017	“Ramón y Cajal” posdoc position, University of Extremadura, Badajoz (Spain)
2017-2020	Profesor Contratado Doctor (Associate professor), University of Extremadura, Badajoz (Spain)
2020-2025	Profesor Titular de Universidad (Tenured professor), University of Extremadura, Badajoz (Spain)

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD in Science	University of Extremadura / Spain	2007
Degree in Physics	University of Extremadura / Spain	2001

Part B. CV SUMMARY

Manuel Antón started his Ph.D. in 2002 at Universidad of Extremadura (UEx) with a **FPU predoctoral fellowship**. In November 2005, he moved to the Spanish Agency of Meteorology (AEMET) in Madrid as a Research Fellow, enjoying this grant until September 2006. In October 2006, he took up the position of **an assistant professor at UEx** which he held until April 2007. In this date, Manuel Antón obtained his Ph.D. with the highest level (cum laude per unanimity), he received the European mention and he was also distinguished with the Extraordinary Award of the UEx.

As a first post-doc position, he enjoyed a **research contract at UEx** (May 2007-November 2008). In December 2008, he was awarded a **postdoctoral position at Geophysics Centre of Évora (CGE) from University of Évora (Portugal)**. He spent 1.5 years at this institution. It must be highlighted that he performed three postdoctoral brief stays in 2007, 2008 and 2010 in DLR (one of them funded by a "José Castillejo" fellowship). From May 2010 to April 2012, he enjoyed a **"Juan de la Cierva" grant at University of Granada**. After this position, Manuel Antón archived a prestigious **"Ramon y Cajal" grant which enjoyed at UEx** from May 2012 to April 2017. He accessed each of his four postdoctoral contracts after a competitive open process of applications. In May 2017, he was hired by UEx as **associated professor "Profesor Contrado Doctor"** and promoted in 2020 to **tenured professor "Profesor Titular de Universidad"** at this institution. Since June 2025 Manuel Antón is a **full professor "Catedrático de Universidad"** at UEx.

Manuel Antón has focused his research on the study of solar radiation with great interest in its ultraviolet region, and in the analysis of the interaction of solar radiation with the main atmospheric agents (clouds, aerosols and gases). He has taken part in **9 national research funded projects (one of them as Principal Investigator)** carried out at UEx, working actively in all them. In addition, in the course of his research career, he has published **106 peer-reviewed articles** included in the Journal Citation Reports (JCR) in top, international journals specialized in Geophysics Sciences: J. Geophys. Res., Geophys. Res. Lett., Atmos. Chem. Phys. Atmos. Environ., Rem. Sens. Environ., J. Climate, Tellus-B, IEEE Trans. Geosc. Rem. Sens. It should be highlighted that Manuel Antón is the first author in 44 of these JCR peer-reviewed articles. As a measure of the work quality, it would be noted that 72 of all articles appears in the first quartile of their subject category (remaining are mainly in the second). Manuel Antón has achieved an **h-index 28** (Scopus Database).

Part C. RELEVANT MERITS

C.1. Publications

1. **Antón, M.**, R. Román, A. Sanchez-Lorenzo, J. Calbó, and J.M. Vaquero (2017), Variability analysis of the reconstructed daily global solar radiation under all-sky and cloud-free conditions in Madrid during the period 1887–1950, Atmos. Res., 191, 94-100, doi: 10.1016/j.atmosres.2017.03.013.
2. **Antón, M.**, J.M. Vaquero and A.J.P. Aparicio (2014) The controversial early brightening in the first half of 20th century: A contribution from pyrheliometer measurements in Madrid (Spain), Global and Planetary Change 115, 71–75.
3. **Antón, M.**, D. Mateos, R. Román, A. Valenzuela, L. Alados-Arboledas, and F. J. Olmo (2014), A method to determine the ozone radiative forcing in the ultraviolet range from experimental data, J. Geophys. Res., 119, 1860–1873, DOI: 10.1002/2013JD020444.
4. **Antón, M.**, and D. Mateos (2013), Shortwave radiative forcing due to long-term changes of total ozone column over the Iberian Peninsula, Atmos. Environ., 81, 532-537, doi: 10.1016/j.atmosenv.2013.09.047.
5. **Antón, M.**, L. Alados-Arboledas, J. L. Guerrero-Rascado, M. J. Costa, J. C Chiu, and F. J. Olmo (2012), Experimental and modeled UV erythemal irradiance under overcast conditions: the role of cloud optical depth, Atmos. Chem. Phys., 12, 11723–11732, doi:10.5194/acp-12-11723-2012.
6. **Antón, M**., A. Valenzuela, R. Román, H. Lyamani, N. Krotkov, A. Arola, F. J. Olmo, and L. Alados-Arboledas (2012), Influence of desert dust intrusions on ground-based

and satellite-derived ultraviolet irradiance in southeastern Spain, J. Geophys. Res., 117, D19209, doi:10.1029/2012JD018056.

7. **Antón, M.**, and D. Loyola (2011), Influence of cloud properties on satellite total ozone observations, J. Geophys. Res., 116, D03208, doi: 10.1029/2010JD014780.
8. **Antón, M.**, D. Bortoli, M.J. Costa, P.S. Kulkarni, A.F. Domingues, D. Barriopedro, A. Serrano, A.M. Silva (2011), Temporal and spatial variabilities of total ozone column over Portugal, Remote Sensing of Environment, 115, 855–863, doi:10.1016/j.rse.2010.11.013.
9. **Antón, M**., D. Loyola, C. Clerbaux, M. López, J.M. Vilaplana, M. Bañón, J. Hadji-Lazaro, P. Valks, N. Hao, W. Zimmer, P.F. Coheur, D. Hurtmans, L. Alados-Arboledas (2011), Validation of the MetOp-A total ozone data from GOME-2 and IASI using reference ground-based measurements at the Iberian Peninsula, Remote Sensing of Environment, 115, 1380–1386, doi:10.1016/j.rse.2011.01.018.
10. **Antón, M.**, D. Bortoli, P.S. Kulkarni, M.J. Costa, A.F. Domingues, D. Loyola, A.M. Silva, L. Alados-Arboledas. (2011), Long-term trends of total ozone column over the Iberian Peninsula for the period 1979-2008, Atmos. Environ., 45, 6283-6290, doi:10.1016/j.atmosenv.2011.08.058.

C.2. Congress

Invited oral presentation in the Quadrennial International Radiation Symposium held in Berlin (Germany) in August 2012 with the title “Influence of the atmosphere on the UV radiation at ground level in a mid-latitude region, Iberian Peninsula”.

C.3. Research projects

1.Title: A cell-based approach to evaluate the impact of air quality
Funding entity: Agencia Estatal de Investigación
Reference: TED2021-130560BI00
Participating institutions: Univeridad de Extremadura
Duration: December 2022 – November 2024
Number of researchers: 4
Principal Investigator; Investigador principal: Dr. Jose María Carvajal González
Participation: Collaborating researcher with full dedication

2. Title: Events of interest for Earth and Space Sciences in Extremadura from documents and historical press.
Funding entity: Junta de Extremadura
Reference: IBI20080
Participating institutions: Univeridad de Extremadura
Duration: June 2021 – June 2024
Number of researchers: 5
Principal Investigator; Investigador principal: Dr. José Manuel Vaquero Martínez
Participation: Collaborating researcher with full dedication

3. Title: Total and erythematic solar radiation measurement network in Extremadura
Funding entity: Junta de Extremadura
Reference: IBI18092
Participating institutions: Univeridad de Extremadura
Duration: Junuary 2019 – December 2021
Number of researchers: 3
Principal Investigator; Investigador principal: Dra. María Luísa Cancillo
Participation: Collaborating researcher with full dedication

4. Title: Assessment of the historical climate of SW Iberia and its forcings
Funding entity: Agencia Estatal de Investigación
Reference: CGL2017-87917-P
Participating institutions: Univeridad de Extremadura
Duration: Junuary 2018 – December 2020

Number of researchers: 6
Principal Investigator: Dr. José Manuel Vaquero Martínez y Dra. María Cruz Gallego Herrezuelo
Participation: Collaborating researcher with full dedication

5. Title: Remotely Piloted Aircrafts and CCD-based spectroradiometers: cutting-edge technology for ground-based measurements and vertical profiles of solar radiation
Funding entity: Ministerio de Economía y Competitividad
Reference: CGL2015-56255-C2-1-R
Participating institutions: Univeridad de Extremadura, Instituto Nacional de Técnica Aeroespacial (INTA)
Duration: Junuary 2015 – December 2017
Number of researchers: 4
Principal Investigator: **Dr. Manuel Antón Martínez** y Dr. Antonio Serrano Pérez
Participation: Principal Investigator

6. Title: Spatial-Temporal distribution of the solar UV radiation over SouthWestern Spain. Monitoring and simulation by models (SOLARIUM)
Funding entity: Ministerio de Educación, Cultura y Deportes
Reference: CGL2011-29921-C02-01
Participating institutions: Univeridad de Extremadura, Universidad de Valladolid, Instituto Nacional de Técnica Aeroespacial (INTA)
Duration: Junuary 2012 – December 2014
Number of researchers: 10
Principal Investigator: Dra. María Luisa Cancillo Fernández
Participation: Collaborating researcher with full dedication

7. Title: Monitoring of atmospheric tracers in Antarctica with ground-based remote sensing observations
Funding entity: Portuguese Foundation for Science and Technology (FCT)
Participating institutions: Geophysics Centre of Evora
Duration: Junuary 2010 – December 2012
Number of researchers: 6
Principal Investigator: Dr. Daniele Bortoli
Participation: Collaborating researcher with partial dedication

8. Title: Satellite cloud properties and effects on erythemal UV radiation
Funding entity: Portuguese Foundation for Science and Technology (FCT)
Participating institutions: Geophysics Centre of Evora Participating institutions: Geophysics Centre of Evora
Duration: Junuary 2010 – December 2012
Number of researchers: 8
Principal Investigator: Dra. Maria J. Costa
Participation: Collaborating researcher with partial dedication

9. Title: Long-term measurements networks of solar radiation, UV, ozone and aerosols
Funding entity: Ministerio de Ceincia e Innovación
Reference: CGL2008-05939-C03-02
Participating institutions: Univeridad de Extremadura, Universidad de Valladolid, Instituto Nacional de Técnica Aeroespacial (INTA)
Duration: Junuary 2009 – December 2011
Number of researchers: 11
Principal Investigator: Dr. Antonio Serrano Pérez
Participation: Collaborating researcher with full dedication