

Part A. PERSONAL INFORMATION		CV date	06/11/2025
First and Family name	Francisco Javier Guillén Gerada		
Social Security, Passport, ID number		Age	
Researcher codes	WoS Researcher ID (*)		
	SCOPUS Author ID(*)	K-8307-2014	
	Open Researcher and Contributor ID (ORCID) **	0000-0003-4351-9286	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	University of Extremadura		
Department	Applied Physics (Faculty of Veterinary Sciences)		
Address and Country	Avda. Universidad, s/n, 10003 Cáceres (Spain)		
Phone number		E-mail	
Current position	Associate Professor (Profesor Titular Universidad)	From	17/08/2018
Key words	Radioecology, radiological protection, environmental radioactivity		

A.2. Education

PhD	University	Year
Graduate in Physics	University of Seville	1996
Ph.D. in Physics	University of Extremadura	2002

A.3. JCR articles, h Index, thesis supervised...

Number of six-year terms (sexenios): 4 (2001-2006, 2007-2012, 2013-2018, 2019-2024)

Supervised Ph. D. Thesis: 4

Total number of JCR articles: 56

Total citations: 593

Mean value of citation per year: 41.9 (2015-2019)

Number of publications in 1st quartil (Q1): 19

h Index: 17

Part B. CV SUMMARY (max. 3500 characters, including spaces)

The main research field is the radiological protection of men and environment. There are two specific research lines in this field: transfer and dynamics of radionuclides in the environment, either anthropogenic or naturally occurring; and modification of drinking water treatment plants to remove radionuclides from drinking water. Research is focused on ingestion pathway of radioactive contamination to men. Radionuclide transfer to non-human biota as part of the new definition of radiological protection of the environment was also researched. In this field of expertise I have collaborated in several surveillance programs of radiological protection within grants and contracts with well-known and prestigious agencies and companies, such as Consejo de Seguridad Nuclear, Centro de Investigaciones Energéticas, Medio Ambientales y Tecnológicas (CIEMAT), ENRESA and Junta de Extremadura. Several nuclear techniques (Liquid Scintillation Counting, γ - and α -spectrometries) were used in these studies to determine radionuclide concentration in environmental samples of various matrices and origins. At the present, I am Director of the 'Servicio de Apoyo a la Investigación' of the UEx and leader of the research group Laboratorio de Radioactividad Ambiental de la Universidad de Extremadura (LARUEx). I did several national and international scientific visits to academic centres (CIEMAT, University of Seville, Institute of Nuclear Physics of Krakow (Poland), and Centre for Ecology and Hydrology in Lancaster, CEH-NERC (UK)) and courses (Forschungszentrum Karlsruhe, CEH-NERC Lancaster). I was also the main researcher from UEx in the CONFIDENCE project, funded by



EU in the CONCERT-EJP programme and Agencia Estatal de Investigación (MINECO), in which an intensive sampling at national level was carried out. In the laboral and academic experience, I participated in numerous research programmes as young researcher since 1996, and since 2002, shortly after my Ph.D., as lecturer in the Dpt. of Applied Physics in UEx. In 2018 I became associate profesor in the same department.

Part C. RELEVANT MERITS

C.1. Publications (including books)

1. J. Guillén, N.A. Beresford, Z. Baigazinov, A. Salas, A. Kunduzbaeva. Can stable elements (Cs and Sr) be used as proxies for the estimation of radionuclide soil-plant transfer factors? *Environmental Pollution* this link is disabled, 2022, 299, 118897
2. A. Baeza, A. Salas, J. Guillén, A. Muñoz-Serrano, J.A. Corbacho. Removal of radium in a working drinking water treatment plant: Radiological hazard assessment and waste management. *J. Haz. Mat.* 371 (2019) 586–591
3. J. Guillén, A. Muñoz-Serrano, A. Baeza, A. Salas. Speciation of naturally occurring radionuclides in Mediterranean soils: bioavailability assessment. *Environ. Sci. Poll. Res.* (2018) 25:6772–6782
4. A. Baeza, J. García-Paniagua, J. Guillén, B. Montalbán. Influence of architectural style on indoor radon concentration in a radon prone area: A case study. *Sci. Total Environ.* 610–611 (2018) 258–266
5. J. Rubio-Delgado, J. Guillén, J.A. Corbacho, Á. Gómez-Gutiérrez, A. Baeza, S. Schnabel. Comparison of two methodologies used to estimate erosion rates in Mediterranean ecosystems: ¹³⁷Cs and exposed tree roots. *Sci. Total Environ.* 605–606 (2017) 541–550
6. J. Guillén, N.A. Beresford, A. Baeza, M. Izquierdo, M.D. Wood, A. Salas, A. Muñoz-Serrano, J.M. Corrales-Vazquez, J.G. Muñoz-Muñoz. Transfer parameters for ICRP's Reference Animals and Plants in a terrestrial Mediterranean ecosystem. *J. Environ. Radioactiv.* 186 (2018) 9e22
7. A. Baeza, A. Salas, J. Guillén, A. Muñoz-Serrano, M.A. Ontalba-Salamanca, M.C. Jiménez-Ramos. Removal naturally occurring radionuclides from drinking water using a filter specifically designed for Drinking Water Treatment Plants. *Chemosphere*, 167, 2017, 107-113
8. J. Guillén, A. Baeza, J.A. Corbacho, J.G. Muñoz-Muñoz. Migration of ¹³⁷Cs, ⁹⁰Sr and ²³⁹⁺²⁴⁰Pu in Mediterranean forests: influence of bioavailability and association with organic acids in soil. *J. Environ. Radioactiv.*, 144, 2015, 96-102
9. J. Guillén, A. Baeza. Radioactivity in mushrooms: a health hazard? *Food Chemistry*, 154, 2014, 14-25.
10. A. Baeza, A. Salas, J. Guillén, A. Muñoz-Serrano. Association of naturally occurring radionuclides in sludges from Drinking Water Treatment Plants previously optimized for their removal. *Chemosphere*, 97, 2014, 108-114.

C.2. Research projects and grants

1. Project reference: PRI IB 20060
Title: Evaluación del impacto radiológico ambiental de la minería metálica en Extremadura
IP-Main researcher: Fco. Javier Guillén Gerada
Funding body: Junta de Extremadura
Duration (initial – end date): 20/06/21-19/06/24
Funding (in euros): 149.911,30€
Type of participation: main researcher by UEx
Project status: granted
2. Project reference: CONCERT-CONFIDENCE 2016-006
Title: Coping with uncertainties for improved modelling and decision making in nuclear emergencies
IP-Main researcher: Fco. Javier Guillén Gerada
Funding body: CONCERT-EJP (EU)
Duration (initial – end date): 01/01/17-31/12/19
Funding (in euros): 6141705 € (1000313 € UEx)
Type of participation: main researcher by UEx
Project status: granted



3. Project reference: PCIN2017-019

Title: Acción sobre el cambio climático y eficiencia en la utilización de materias primas

IP-Main researcher: Fco. Javier Guillén Gerada

Funding body: Ministerio de Economía y Competitividad

Duration (initial – end date): 01/01/17-31/12/19

Funding (in euros): 35948 €

Type of participation: main researcher

Project status: granted

4. Project reference: TRITIUM, SOE1/P4/E0214

Title: Diseño, construcción y puesta a punto de estaciones automáticas para el monitoraje en tiempo real de bajos niveles radioactivos de tritio en aguas

IP-Main researcher: Antonio S. Baeza Espasa

Funding body: Interreg SUDOE (EU)

Duration (initial – end date): 01/07/16-30/16/19

Funding (in euros): 1602981.29 € (375717.77€ UEx)

Type of participation: senior researcher

Project status: granted

5. Project reference: POCTEP III-RAT_PC_II

Title: Implantación de redes de alertas tempranas para Planes de Protección Civil y Sistemas de Emergencias, 2ª Fase

IP-Main researcher: Saturnino Corchero Pérez

Funding body: Programa de Cooperación Transfronteriza España-Portugal

Duration (initial – end date): 01/01/14-31/12/15

Funding (in euros): 2.646.882,27 €

Type of participation: senior researcher

Project status: granted

6. Project reference: POCTEP II-RAT_PC_4E

Title: Implantación de redes de alertas tempranas para Planes de Protección Civil y Sistemas de Emergencias

IP-Main researcher: Saturnino Corchero Pérez

Funding body: Programa de Cooperación Transfronteriza España-Portugal

Duration (initial – end date): 10/05/10-31/12/13

Funding (in euros): 4.519.605,41 €

Type of participation: senior researcher

Project status: granted

7. Project reference: CGG2011-23361

Title: Análisis y Modelización Integral de las Dehesas: Cambios de uso y manejo y repercusiones sobre la sustentabilidad del sistema

IP-Main researcher: Susanne Schnabel, Universidad de Extremadura

Funding body: Secretaría de Estado de Investigación, Desarrollo e Innovación, MICIIN

Duration (initial – end date): 19/07/11-31/12/14

Funding (in euros): 55.000,00 €

Type of participation: senior researcher

Project status: granted

C.3. Contracts

1. Title: Estudio de la problemática existente en la determinación del índice alfa total en aguas potables. Propuesta de Procedimiento

IP-Main researcher: Antonio S. Baeza Espasa

Funding body: Consejo de Seguridad Nuclear

Duration (initial – end date): 16/09/2009 – 16/09/2011

Funding (in euros): 175456.72 €



Type of participation: senior researcher
Project status: granted

2. Title: Estudio del impacto radiológico de las centrales centrales de carbón sobre sus entornos

IP-Main researcher Antonio S. Baeza Espasa

Funding body: CIEMAT

Duration (initial – end date): 23/09/2004 – 23/09/2008

Funding (in euros): 230.911,00 €

Type of participation: senior researcher

Project status: granted

3. Title: Adecuación de los sistemas de potabilización radiológica del agua

IP-Main researcher Antonio S. Baeza Espasa

Funding body: ENRESA

Duration (initial – end date): 26/05/2003 – 26/05/2006

Funding (in euros): 177.804,00 €

Type of participation: senior researcher

Project status: granted

C.4. Patents

C.5, Supervisor of academic works

1. Ph. D. thesis of Juan José Tejado Ramos entitled “Análisis de la Extracción y Transformación de Granitos como actividad NORM. Diseño de protocolo”. UEx, 26/09/2014.
2. Ph. D. thesis of Antonio Rodríguez Perulero entitled "Estudio de la dinámica de la radioactividad atmosférica en Cáceres". UEx, 07/04/2017
3. Ph. D. thesis of Jorge García Paniagua entitled “Evolución de los niveles radioactivos/dosimétricos en diferentes tipologías de viviendas unifamiliares del norte de Extremadura, desde la arquitectura popular a la actualidad”. UEx, 06/09/2017.
4. Ph. D. thesis of Juan Gabriel Muñoz Muñoz entitled “Análisis de la transferencia de radionucleidos naturales desde diversos suelos tipo al trigo. Influencia de enmiendas basadas de subproductos NORM”. UEx, 25/02/2022.
5. Master Final Essay of D. Sergio Durán Álvarez entitled “Análisis de la concentración de radón en diferentes estancias de la Universidad de Extremadura”, UEx, June 2014.
6. Master Final Essay of D. Juan Gabriel Muñoz Muñoz entitled “Análisis de la transferencia de radionucleidos antropogénicos a plántulas de trigo en condiciones controladas de laboratorio”, March 2012
7. Degree Final Essay of Javier Miranda Carpintero entitled “Desarrollo del software básico de análisis en espectrometría alfa”, 2006.

C.6. Participation as reviewer.

At the present, I am Associate Editor of Journal of Environmental Radioactivity, and also an expert for ANEP and external reviewer for “National Centre of Science and Technology Evaluation” in Kazakhstan, and also reviewer for several international JCR journals, such as, ‘Journal of Environmental Radioactivity’, ‘Journal of Hazardous Materials’, ‘Science of the Total Environment’ and ‘Plant and Soil’ among others.

C.7. Membership of scientific societies

I am member of SEPR (Sociedad Española de Protección Radiológica) and member of the scientific and organizing committee of ‘Jornadas de Calidad en el Control de la Radiactividad Ambiental’