



CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

CV date

23/01/2023

First name	Eneko		
Family name	Iriarte Aviles		
Gender (*)	Male	Birth date (dd/mm/yyyy)	
ID number			
e-mail:	eiriarte@ubu.es	URL Web:	https://investigacion.ubu.es/investigadores/35268/detalle
Open Researcher and Contributor ID (ORCID) (*)	0000-0001-8365-5616		

(*) Mandatory

A.1. Current position

Position	Profesor Contratado Doctor Fijo		
Initial date	22/07/2022		
Institution	Universidad de Burgos		
Department/Center	Fac. Historia y Comunicación	Historia, Geografía y Comunicación	
Country	Spain	Teleph. number	947259545
Key words			

A.2. Previous positions (research activity interruptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
1999-2002	Investigador predoctoral (FPU, MCyT)/Universidad del País Vasco
2004	Investigador (no doctor) contratado/ Universidad del País Vasco
2005	Profesor de Enseñanza Secundaria/ Instituto B.V.M. Irlandesas (Leioa, Bizkaia)
2006	Investigador Doctor contratado/ Universidad del País Vasco
2006-2009	Profesor Ayudante/Universidad de Cantabria
2009-2011	Investigador Doctor contratado/ Consejo Superior de Investigaciones Científicas (CSIC)
2011	Investigador Postdoctoral (JAE-Doc)
2011-2015	Profesor ayudante Doctor/Universidad de Burgos
2015-Actualidad	Profesor Contratado Doctor/Universidad de Burgos

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Licenciado en Ciencias Geológicas	EHU/UPV Universidad del País Vasco	1998
Diploma Universitario de Postgrado Internacional UNIGIS en Sistemas de Información Geográfica	Universitat de Girona	2007
Máster Profesional UNIGIS en Gestión de Sistemas de Información Geográfica	Universitat de Girona	2009
Doctor en Ciencias Geológicas	EHU/UPV Universidad del País Vasco	2004

Part B. CV SUMMARY (max. 5000 characters, including spaces) Amount of time as an active researcher



I graduated from my PhD 17 years ago, in 2004, and have since held a number of and postdoctoral positions at different universities and research centers' fellowships interspersed with a total of 5 months unemployment. I have been an Assistant Professor from 2006 to 2009 at the University of Cantabria (Spain), and postdoctoral researcher in the Spanish Research Council (Barcelona) from 2009 to 2011 and since 2011 I have been in an ongoing teaching and research position (Associate Professor) at the University of Burgos.

Academic achievements and contributions

Since moving to Burgos, I have been pioneering geoarchaeological and palaeoclimatic science at the Human Evolution Lab in the University of Burgos. This is a collaborative space for geology and archaeology, and I have focused on collaborations with other research groups covering a wide range of disciplines where my expertise on sedimentology and geochemistry can be applied.

At the University of Burgos, I have mentored 22 Master Degree students and 6 PhD students. In the last 10 years I am also a member of many boards at master's degree and PhD programs. I have had the opportunity to design and launch a master's degree on Human Evolution in Burgos University where I coordinate and teach the Quaternary Science module.

Another focus of my activity has been on hosting students from a number of local and international institutions providing experimental lab work experience and mentoring that can benefit their projects. I have recently had two PhD successes (timely completion in 2021) (4 in total and 2 more ongoing) and I am currently co-supervising and hosting PhD students from La Laguna University, Basque Country University, Valladolid University and Burgos University.

Research achievements and contributions

At the University of Burgos, I have been pioneering at geoarchaeological and palaeoclimatological science that will be further developed with the newly opened IsoTOPIK Stable Isotope Laboratory in which I am the Scientific director. My contribution to these fields had been recognized by grant funding bodies, particularly Fellowships from the Spanish Research Council, the European Commission and the Spanish and regional (Junta de Castilla y León) governments.

My research has been in the field of environment and human interactions during the Quaternary, especially during the late Pleistocene to Holocene in Levant, northern Africa and the Iberian Peninsula. For that purpose, I research on paleoenvironmental reconstruction of Quaternary sedimentary records in both archaeological sites and different sedimentary environments, from lake cores to speleothems through the stratigraphy, sedimentology, geochemistry and statistical analysis.

In the last 5 years I have published different papers describing the paleoenvironmental changes and the human-impacts that led to the onset of first Neolithic communities in northern Spain and central Levant. In total I have participated in 80 JCR/JSCR publications, 33 in Q1 position journals, h index=19, and their citations per year have increased from 111 to 227 the last 5 years in SCOPUS). Since 2010 I am part of the research group of the El Portalón site in Atapuerca site complex, where I am in charge of the stratigraphical and geoarchaeological research lines (i.e. Francés-Negro et al., 2019 & 2021). I have already collaborated on archaeological, palaeoenvironmental and isotopic and palaeogenomic work concerning the El Portalón de Cueva Mayor archaeological site (Gunther et al., 2015; Wadsworth et al., 2017; Valdiosera et al., 2018), that contributed to the debate about the origin of the first Neolithic farmers and the genetic dynamics of the Neolithic in Iberia, which featured in a high profile



publication. In the Middle East research, my contributions and ongoing research are directed to the establishment of a different paradigm in the focus of the Neolithisation of the Levant, Eastern Mediterranean. During our research work in Syria, Lebanon and Jordan for the last 15 years we have found evidence that it was a unique focus that involved all the Fertile Crescent, instead of many different loci located in northern Iraq and southern Anatolia. Additionally we contextualize the Neolithisation in the changing environmental conditions of the latest Pleistocene to Holocene period that triggered such a socio-economical major change to Neolithisation (Iriarte et al., 2011; Balbo et al., 2012; Arranz-Otaegi et al., 2017).

Academic service

I was appointed to the Spanish Research Council College of Experts - Humanities panel since 2016 and my international standing has been recognized through being asked to review and being part of the evaluation committee on "Solid earth and fluid envelopes" of the 2022 and 2023 Research Programs of the Académie National de la Recherche (France). I have been asked to review manuscripts for Chemical Geology, PLOSone, Journal of Quaternary Science, Sedimentary Geology, Frontiers in Earth Science, Geoarcheology, Archaeological & Anthropological Sciences, Antiquity, among others.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

TEN CAREER-BEST RESEARCH OUTPUTS (related to this project application)

- [1] Valdiosera, C, Günther, T, Vera-Rodríguez, JC, Ureña, I & Iriarte, E et al. 2018, 'Four millennia of Iberian biomolecular prehistory illustrate the impact of prehistoric migrations at the far end of Eurasia', Proceedings of the National Academy of Sciences of the United States of America, vol. 115, no. 13, pp. 3428-3433
- [2] Günther, T, Valdiosera, C, Malmström, H, Ureña, I & Rodriguez-Varela, R et al. 2015, 'Ancient genomes link early farmers from Atapuerca in Spain to modern-day Basques', Proceedings of the National Academy of Sciences of the United States of America, vol. 112, no. 38, pp. 11917-11922
- [3] Evershed, R.P., et al., 2022. Dairying, diseases and the evolution of lactase persistence in Europe. Nature, 608, 336-345.
- [4] Balbo, AL, Iriarte, E, Arranz, A, Zapata, L & Lancelotti, C et al. 2012, 'Squaring the circle. social and environmental implications of pre-pottery neolithic building technology at tell Qarassa (South Syria)', PLoS ONE, vol. 7, no. 7
- [5] Wadsworth, C, Procopio, N, Anderung, C, Carretero, J & Iriarte, E et al. 2017, 'Comparing ancient DNA survival and proteome content in 69 archaeological cattle tooth and bone samples from multiple European sites', Journal of Proteomics, vol. 158, pp. 1– 8, doi:10.1016/j.jprot.2017.01.004
- [6] Arranz-Otaegi, A, López-Sáez, JA, Araus, JL, Portillo, M & Balbo, A et al. 2017, 'Landscape transformations at the dawn of agriculture in southern Syria (10.7?9.9 ka cal. BP): Plant-specific responses to the impact of human activities and climate change', Quaternary Science Reviews, vol. 158, pp. 145-163.
- [7] Bernall-Wormull, J.L., Moreno, A., Bartolomé, Arriolabengoa, M., Pérez-Mejías, C., Iriarte, E., Osácar, C., Spötl, C., Stoll, H., Cacho, I., Erwards, R.L., Cheng, H.(2023). New insights into the climate of northern Iberia during the Younger Dryas and Holocene: The Mendukilo multi-speleothem record. Quaternary Science Reviews, 305, 108006.



[8] Francés-Negro, M. et al. 2019, 'Storage or cooking pots? Inferring pottery use through archaeomagnetic assessment of palaeotemperatures', *Journal of Archaeological Science*, 110, 104992.

[9] Francés-Negro, M., Iriarte, E. et al. 2021, 'Neolithic to Bronze Age economy and animal management revealed using analyses lipid residues of pottery vessels and faunal remains at El Portalón de Cueva Mayor (Sierra de Atapuerca, Spain)', *Journal of Archaeological Science*, 131, 105380.

[10] Bernal-Wormull, J.L., Moreno, A., Pérez-Mejías, C., ...Edwards, R.L., et al. 2021, 'Immediate temperature response in northern Iberia to last deglacial changes in the North Atlantic', *Geology*, 49, no. 8, pp. 999-1003.

C.2. Congress

I have participated in more than 150 national and international congress communications.

C.3. Research projects

- *Project: Sistema de Espectrometría de Masas para la medida automatizada de Relaciones Isotópicas de Carbono, Nitrógeno, Azufre, Oxígeno e Hidrógeno con Sistema de Ablación Láser (LA-IRMS) Entidad financiadora: Junta de Castilla y León y Fondo Europeo de Desarrollo Regional (FEDER) 2019. Duración, desde: 14/2/2019 hasta: Cuantía de la subvención: 498.950,00 € Investigador responsable: Dr. Eneko Iriarte, Dra. Rebeca García y Dr. José Miguel Carretero*

- *Project: GREENER "InteGRated systems for Effective ENvironmEntal Remediation". H2020 CE-BIOTEC-04-2018 - New biotechnologies for environmental remediation (RIA)*

Entidad financiadora: Comisión Europea: Programa H2020-NMBP-BIO-CN-2018-GREENER-GA-826312 Duración, desde: 5/2019 hasta: 5/2021 Cuantía de la subvención: 5.057.622,50 € Investigador responsable: Dra. Rocio Barros García (UBU)

- *Project: Geología, Geocronología y Paleobiología de los yacimientos de la Sierra de Atapuerca VIII (PID2021-122355NB-C31). Entidad financiadora: Ministerio de Ciencia, Innovación y Universidades Duración, desde: 2022 hasta: 2025 Cuantía de la subvención: 399.300 € Investigador responsable: Dr. Juan Luis Arsuaga y Dr. José Miguel Carretero*

- *Project: Proyecto Poll-Ole-GI SUDOE (SOE1/P5/E0129, 2016-2019): Protección de Polinizadores y Servicios Ecosistémicos en la Región SUDOE: el Papel de las Infraestructuras Verdes en la Sostenibilidad de los cultivos Oleaginosos. Entidad financiadora: Comisión Europea: Programa INTERREG-SUDOE Duración, desde: 2016 hasta: 2019 Cuantía de la subvención: 1.101.709,89 € Investigador responsable: Dr. Carlos Rad Moradillo (UBU)*

- *Project: A new frontier for Prehistory: The submerged Palaeolithic in the Continental Shelf of the Bay of Biscay (PALEOSUB) (HAR2017-91332-EXP) Entidad financiadora: Ministerio de Ciencia, Innovación y Universidades Duración, desde: 2019 hasta: 2021 Cuantía de la subvención: 58.080 € + Campaña oceanográfica en el buque "Ángeles Alvariño" Principal Investigator: Dr. Pablo Arias Número de investigadores participantes: 17*

- *Project: Cereal cultivation as a socioeconomically transformative process prior to domestication: comparing models in the Levant and north China (PREDOM) (PID2019-105767GB-I00). Entidad financiadora: Ministerio de Ciencia, Innovación y Universidades Duración, desde: 2020 hasta: 2022 Cuantía de la subvención: 80.000 € Investigador responsable: Dr. Juan José Ibañez*