

Part A. PERSONAL INFORMATION		CV date	01/12/2018
First and Family name	FRANCISCA ALBA SÁNCHEZ		
Social Security, Passport, ID number		Age	
Researcher numbers	Researcher ID	E-7927-2010	
	Orcid code	0000-0003-0387-1533	

A.1. Current position

Name of University/Institution	Universidad de Granada		
Department	Dpto. de Botánica		
Address and Country	Facultad de Ciencias. Av. Fuentenueva, s/n. 18071. Granada		
Phone number	+34958248815	E-mail	falba@ugr.es
Current position	Associate Professor	From	20/06/2011
Espec. cód. UNESCO	2416.03 / 2417.10 / 2505.01-1 / 2505.02		
Palabras clave	Palinology, Paleoecology, Paleoclimatology, Ecological Modelings		

A.2. Education

PhD	University	Year
Biology	University of Granada	1997

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

JCR articles= 45; 15 articles in Q1; 9 in Q2

H index Scopus= 19; Total citation Scopus=944; Average citation per year during the last 5 years= 447

H index Google citation=24; i10 index Google citation=51; Total citation=2200

2 SEXENIOS (ANEP)= 2005-2010; 2011-2016

I have supervised 3 PhD Theses in relation with palynology as well as 6 Máster's Theses in the field of Biodiversity and Conservation.

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

I am interested in palaeoecology, conservation biology, plant-environment relationships and ecological niche modeling. In addition she has focused on glacial/ interglacial refugia for Mediterranean relict plant species. She profoundly knows the physical processes involved in the dispersion-deposition mechanisms of pollen grains and fossil macroremains, a very useful skill for further progress in the field of paleobotany and also to get Quaternary Distribution Models of Western Mediterranean relict species. In the field of Palynology, she has developed his research since 1992 within the framework of several projects of the I+D+i National Plan (PB92-0814-C04-03; AMB97-0457-C07-04; BOS2002-03474; GGL2006-12648-CO3-02), Excellence Research Projects funding programme of Andalusian government (P06-RNM-02034), or **5° EU Framework Programme** for Research and Innovation (SPRING -UE- C26811). In addition my knowledge in Palynology has allowed to collaborate with research groups about Phylogeography and Conservation of Mediterranean Flora through I+D+i National Plan (CGL2010-16357).

In the past five years I have worked further in Quaternary Paleofitogeography of Mediterranean species, participating in more than sixteen projects related to this topic, among which: *National Plan I+D+i 2018-220 " Interglacial refugia in Western Mediterranean Mountains. Implications for montane conifers conservation (Med-Refugia)" RTI2018-101714-B-I00* and *Excellence Research Projects funding programme of*

Andalusian government RNM-7033 “Paleobiogeografía y conservación de *Abies pinsapo* Boiss. y *Cedrus atlantica* (Endl.) Carrière: Dos especies de la flora relictada del Mediterráneo Occidental” as **Leader Researcher**.

I also participate in several I+D+i National Plan Project; MARM National Parks; **CONSOLIDER Program**, etc. (HAR2008-06477-C03-03/HIST; CGL2011-30512-C02-01; REF.083/2009; Orden ARM/1498/2009; CSD2007-00058) or European programs involving several partner countries “**CRC** (Collaborative Research Center project funding programme of German Government) or “**MISTRALS**” (an international meta-program and interdisciplinary research and systematic observations dedicated to understanding the environmental functioning in the Mediterranean basin under the pressure of global change to predict future trends). In these projects, she has developed, from a palaeoecological point of view, the biogeography of some relict plant species of the Iberian Peninsula and the North of Africa, addressing biomization issues, reinterpretation of ancient dynamics linked to pollen rain studies, palaeoclimatic reconstructions at a regional level and habitat modeling using artificial intelligence systems, etc. We are also collaborating closely with the project **VULPES** VULnerability of Populations under Extreme Scenarios (2016 - 2019). This proposal is in relation to Mountains as sentinels of Global change.

In the context of the above mentioned interdisciplinary projects, I have set the foundations for the coordinated operation of complementary methodological approaches, leading to the proposal of new paleofitogeographical hypothesis, reflected in the publication of several scientific papers in JCR indexed journals (45). Francisca Alba-Sánchez is author or co-author of more than 60 peer-reviewed scientific publications in international scientific journals (with an additional 4 in revision/ elaborating) and more than 40 other publications including book chapters, science news.

Part C. RELEVANT MERITS

C.1. Publications (including books)

[Alba-Sánchez Francisca](#), López-Sáez José Antonio, Daniel Abel-Schaad, Sabariego Ruiz Silvia, Pérez-Díaz Sebastián, González-Hernández Antonio and Linares Juan Carlos (2019). The impact of climate and land-use changes on the most southerly fir forests (*Abies pinsapo*) in Europe. *The Holocene* <https://doi.org/10.1177/0959683619838043> CLAVE: A. IF: 2,419 Q2 (Geosciences, Multidisciplinar & Geography, Physical).

[Alba-Sánchez F](#), JA López-Sáez, D Nieto-Lugilde, JC Svenning (2015). Long-term climate forcings to assess vulnerability in North Africa dry argan woodlands. [Applied Vegetation Science](#) 18 (2), 283-296. IF: 2.308. Q1 (Forestry).

[Alba-Sánchez, F](#), López Sáez, J.A., Benito De Pando, B.; Linares, JC, Nieto-Lugilde, D. & López-Merino, L. (2010). Past and present potential distribution of the Iberian *Abies* species: a phytogeographic approach using fossil pollen data and niche-based models. [Diversity and Distributions](#) 16: 214-228. IF: 4.248. Q1 (Biodiversity Conservation).

Liisa Ilvonen¹, José Antonio López-Sáez, Lasse Holmström, [Francisca Alba-Sánchez](#), Sebastián Pérez-Díaz, José S. Carrión, Heikki Seppä (2019). Quantitative reconstruction of precipitation changes in the Iberian Peninsula during the Late Pleistocene and the Holocene. *Climate of the past*. <https://doi.org/10.5194/cp-2019-33>. CLAVE: A. IF: 3,174 Q1 (Meteorology & Atmospheric Sciences & Geosciences, Multidisciplinary)

Garrido-García, J.A., Nieto-Lugilde, D., [Alba-Sánchez F.](#) & Soriguet RC.. (2018). Agricultural intensification during the Late Holocene rather than climatic aridification drives the population dynamics and the current conservation status of *Microtus cabreræ*, an endangered Mediterranean rodent. *Journal of Biogeography* 45(2), 448-460. IF=4.248 Q1 (Ecology).

Abel-Schaad, D., Iriarte, E., López-Sáez, J. A., Pérez-Díaz, S., Sabariego Ruiz, S., Cheddadi, R., & [Alba-Sánchez, F.](#) (2018). Are *Cedrus Atlantica* forests in the Rif Mountains of Morocco heading towards local extinction?. *The Holocene*, 0959683617752842. IF=2.324 (Q2).

Broothaerts, N., Robles-López, S., Abel-Schaad, D., Pérez-Díaz, S., [Alba-Sánchez, F.](#), Luelmo-Lautenschlaeger, R., ... & López-Sáez, J. A. (2018). Reconstructing past arboreal cover based on modern and fossil pollen data: A statistical approach for the Gredos Range (Central Spain). *Review of Palaeobotany and Palynology*, 255: 1-13. IF: 2.145.Q1 (Paleontology).

López-Sáez J. A., Vargas G., Oliva M., Blarquez O., [Alba-Sánchez F.](#), J. Ruiz-Fernández, S. Pérez-Díaz, S. Robles-López, D. Abel-Schaad (2017). Paleofire dynamics in central Spain during the late Holocene: the role of climatic and anthropogenic forcing (2017). [Land Degradation & Development](#). IF=9.787. Q1 (Environmental Sciences).

López-Sáez J.A, Glais A., Robles-López S., [Alba-Sánchez F.](#), Pérez-Díaz S., Luelmo-Lautenschlaeger R., Abel-Schaad, D. (2017). Unraveling the naturalness of sweet chestnut forests (*Castanea sativa* Mill.) in central Spain. [Vegetation History and Archaeobotany](#). IF: 1.9. Q1 (Paleontology).

J. A. López-Sáez' L. López-Merino, [F. Alba-Sánchez](#), S. Pérez-Díaz, D. Abel-Schaad & J. S. Carrión (2010). Late Holocene ecological history of *Pinus pinaster* forests in the Sierra de Gredos of central Spain. [Plant Ecology](#), 206:195–209. IF: 1.730. Q1 (Forestry).

C. de Linares, J. Belmonte, M. Canela, C. Díaz de la Guardia, [Alba-Sánchez F.](#), S. Sabariego & S. Alonso-Pérez (2010). Dispersal patterns of *Alternaria conidia* in Spain. [Agricultural and Forest Meteorology](#) 150 (12): 1491-1500. IF=3.228. Q1 (Meteorology & Atmospheric Sciences).

L. López-Merino, J.A. López-Sáez, [Alba-Sánchez F.](#), S. Pérez-Díaz, J.S. Carrión (2009). 2,000 yr of pastoralism and fire shaping high-altitude vegetation of Sierra de Gredos in central Spain. [Review of Palaeobotany and Palynology](#) 158: 42-51. IF: 2.145.Q1 (Paleontology).

C.2. Research projects and grants

INTERGLACIAL REFUGIA IN WESTERN MEDITERRANEAN MOUNTAINS. IMPLICATIONS FOR MONTANE CONIFERS CONSERVATION (MED-REFUGIA)"
RTI2018-101714-B-I00. National Plan I+D+i 2018-220. IP: M Francisca Alba Sánchez from 2018 to 2020. Funding: 169.582,85 €

[PALEOBIOGEOGRAFÍA Y CONSERVACIÓN DE ABIES PINSAPO BOISS. Y CEDRUS ATLANTICA \(ENDL.\) CARRIÈRE: DOS ESPECIES DE LA FLORA RELICTA DEL MEDITERRÁNEO OCCIDENTAL \(RELIC-FLORA\) P11RNM-7033. PROYECTOS DE INVESTIGACIÓN DE EXCELENCIA DE LA JUNTA DE ANDALUCÍA](#) Departamento de

Botánica. Facultad de Ciencias. Universidad de Granada [IP: M Francisca Alba Sánchez](#) from 2013 to 2017. Funding: 155.582,85 €

OUR WAY TO EUROPE: Culture-Environment Interaction and Human Mobility in the Late Quaternary (CRC 806)

Project C1: Continuity or Discontinuity? Patterns of Land Use and Climatic Changes in the Late Pleistocene of the Iberian Peninsula

Project C2: Early Holocene Contacts between Africa and Europe and their Palaeoenvironmental Context

IP: Dr. Jürgen Richter (University of Cologne, Institute of Prehistoric Archaeology) German Government (Germany). University of Cologne (Alemania). Funding: 10,06 Millions € from 2009 to 2017.

PALÉOMEX-TRANSECT MAGREB (PALEO MEDITERRANEAN EXPERIMENT): ÉTUDE DES RELATIONS CLIMAT-SOCIÉTÉS-ENVIRONNEMENT AU COURS DE L'HOLOCÈNE EN MÉDITERRANÉE. Meta-Programa MISTRALS (Mediterranean Integrated Studies at Regional and Local Scales). C.N.R.S. (Centre National de la Recherche Scientifique), Francia. Université Lyon-2 y Université Montpellier-2 (France). IPs: Jean François Berger & Laurent Dezileau. From 2015-2020. Funding: 1 Million € Partner countries: France, Tunisia, Morocco and Spain

DINÁMICAS SOCIO-ECOLÓGICAS, RESILIENCIA Y VULNERABILIDAD EN UN PAISAJE DE MONTAÑA: EL SISTEMA CENTRAL (9000 Cal. Bc-1850 Cal. Ad). Reference: HAR2013-43701-P. IP José Antonio López Sáez). Ministerio De Ciencia E Innovación. Proyectos De I+D«Excelencia». From 01/01/2014 to 31/12/2016): Funding 65.000 €

DINÁMICA GLACIAL, CLIMA Y VEGETACIÓN EN EL PARQUE NACIONAL DE ORDESA MONTE PERDIDO DURANTE EL HOLOCENO (Reference 083/2009; ORDEN ARM/1498/2009) MINISTERIO DE MEDIO AMBIENTE Y MEDIO RURAL Y MARINO (Organismo autónomo Parques Nacionales). INSTITUTO PIRENAICO DE ECOLOGIA, CSIC, ZARAGOZA I.P.= Dr. Blas Lorenzo Valero Garcés. Funding: 104.324,02 € From 2010 to 2011.

DINÁMICAS SOCIO-ECOLÓGICAS, RESILIENCIA Y VULNERABILIDAD EN UN PAISAJE DE MONTAÑA: EL SISTEMA CENTRAL (9000 CAL. BC-1850 CAL. AD). HAR2013-43701-P. MINISTERIO DE CIENCIA E INNOVACIÓN. Proyectos de I+D«EXCELENCIA» SUBPROGRAMA DE GENERACIÓN DE CONOCIMIENTO 2013. INSTITUTO DE HISTORIA (IH). CENTRO DE CIENCIAS HUMANAS Y SOCIALES (CSIC) IP: José Antonio López Sáez. From 01/01/2014 to 31/12/2016. Funding: 65.000€

C.3. Contracts

Estudios sobre Flora Andaluza (Flora de Andalucía Oriental). Contract: Convenio de colaboración entre Empresa de Gestión Medioambiental S.A. (EGMASA) and Universidad de Granada for the realization of Studies on Andalusian flora. Consejería de Medio Ambiente; Junta de Andalucía. IP: Gabriel Blanca. Funded: 601.012 €

C.4. Patents

Software (EPDr), shaped like a library for the R statistical programming environment (R-project), which enables the use and management of paleoecological data. This software



consists of numerous functions allowing connecting R with the European Pollen Database (EPD), making diverse queries about the database, as well as the standardisation and homogenisation of data for paleoecological studies

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)