



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

CV date	2021-12-24
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Part A. PERSONAL INFORMATION

First name	Julio		
Family name	Berbel Vecino		
Gender (*)	Male	Birth date (dd/mm/yyyy)	1961-07-27
Social Security, Passport, ID number	30481186E		
e-mail	berbel@uco.es	URL Web	
Open Research and Contributor ID (ORCID)(*)		Research ID: L-1450-2014; ORCID 0000-0001-6483-4483	

(*) *Mandatory*

A.1. Current position

Position	Professor / Head of Department		
Initial date	1989-5-2		
Institution	Universidad de Córdoba		
Departament/Center	Dpt. Agricultural Economics and Finance		
Country	ESP	Tel.. number	34651850602
Key words	Agricultural economics, Water policy, Bioeconomics		

A.2. Previous positions (research activity interruptions, art. 45.2.c)

Period	Position/Institution/Country/Interruption cause
1985-88	Fundación Juan March Scholarship / Univ. Manchester / UK

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD. Agricultural Engineer	Universidad de Córdoba	1988
Master M.A. Econ	University of Manchester (UK)	1986
Agricultural Engineer	Universidad de Córdoba	1985

Part B. CV SUMMARY (max. 5000 characters, including spaces)

Julio Berbel (UCO): Professor of Agricultural Economics in the University of Cordoba, founder of the research group ‘WEARE’ (Water, Environmental, Agriculture and Resource Economics) (<http://www.uco.es/investiga/grupos/weare/>), and currently the Head of the Department of Agricultural Economics and Finance. I hold a PhD in Agricultural Engineering from the University of Cordoba and a Master’s in Agricultural Economics (University of Manchester).

I have published more than 130 articles in JCR Journals with ‘h index’=25, and 1865 citations in WOS and ‘h index’=36, and >4.600 citations on G. Scholar. My ‘normalized impact’ is 2,29 (Jan/2022). Additionally, I have published many reports and articles in alternative journals and books. According to G. Scholar, I am in the top ten authors in the field of ‘water policy’.

During the years 1986-1987, I was granted a scholarship from the Juan March Foundation that allowed me to complete a Master's degree in Agricultural Economics at the University of Manchester. I continued my education with a PhD under the direction of Prof. Carlos Romero and finishing my PhD in the field of multi-criteria decision-making and modelling (1987-1988). In 1989, I joined the University of Cordoba as a lecturer, starting my academic life with teaching and research responsibilities in the Department of Agricultural Economics.

In addition to my academic career, and before joining the University of Cordoba, I worked as an agronomist in various agribusiness firms (QUASH, SA, ESP, and Explot. Belasteguigoitia, Mexico) (1984-1985). Once I had finished my PhD, I worked as the managing director for Bodegas Nueva Andalucía (Montilla, Cordoba). During the period 1995-1999 I assumed management responsibilities in the municipal public sector (Cordoba City Council) with management positions in various municipal companies: Sadeco (waste management), Royal Botanic Garden (environmental conservation), and Mercacórdoba (food distribution and logistics).

Since 1999, I have been exclusively dedicated to academic activity in the Department of Agricultural Economics, where I was appointed as a Professor in October 2008. I have held several university positions, such as a member of the Royal Botanic Garden Management Board (1995-2007).

In my academic experience, I have focused on agrarian and environmental economics, applying operational research methods under the multi-criteria decision-making paradigm to the field of agricultural economics and water policy. I have carried out work on agricultural economics in many fields, such as farm efficiency (application of DEA to the dairy sector), prospective and foreign trade models, commercial planning and business management, impact of GMOs in agriculture in the EU, adoption of innovations, forest management, and other topics of interest to the discipline.

My research has been funded by the European Union and the Ministry of Science, supplemented by technical assistance contracts for the Ministry of the Environment and the European Commission.

My main field of research has been environmental economics, and water policy has been my principal field where my contributions have been linked to the following topics: a) implementation of the Water Framework Directive, where I have investigated the economic instruments that the DMA proposes; b) contributions to the regional economy necessary for the characterisation of the basins; c) the analysis of the cost recovery of water services and its repercussion on the agricultural sector; d) the estimation of environmental costs; e) cost-effectiveness analysis, including the management of uncertainty in the impacts and costs of the measures; and f) cost-benefit analysis and the application of the disproportionate cost criterion.

Recently my research has included the design of hydro-economic and agro-economic models to study the impact of various measures such as: a) water-saving investment and the rebound effect; b) impact of uncertainty in the use of inputs such as fertiliser and water; c) economic and environmental impacts of deficit irrigation techniques including changes; d) irrigation water pricing response; and e) development of the hydro-economic model to study the basin-wide impact of water policy measures and climate change.

In addition to academic production, I have supported many policy-makers: European Commission (DG Agri, DG Env, and DG Research-JRC), Spanish National Government, and Regional Governments (Andalucía, the Basque Country). I have supported Hydrological Plans working for Water Agencies (Guadalquivir, Guadalete-Barbate, Tinto, Odiel y Piedras, Ceuta, Melilla). My activity has gained recognition in my University with the Galileo Transference Prize for 2020, and the Premio Andalucía Medioambiente 2021.

Part C. RELEVANT MERITS (*sorted by typology*)

C.1. Publications (*see instructions*)

- Espinosa-Tasón, J., J.Berbel C. Gutiérrez-Martín** (2020) Energized water: Evolution of water-energy nexus in the Spanish irrigated agriculture, 1950-2017. *Agricultural Water Management*, vol. 233, p. 106073
- Berbel, J., & E. Esteban.** (2019) Droughts as a catalyst for water policy change. Analysis of Spain, Australia (MDB), and California. *Global Environmental Change*, 2019, vol. 58, p. 101969.
- Berbel, J., et al.** (2019) Analysis of irrigation water tariffs and taxes in Europe. *Water Policy*, 2019, vol. 21, no 4, p. 806-825. <https://doi.org/10.2166/wp.2019.197>
- Berbel, J., Gutierrez-Marín, C., & Expósito, A.** (2018). Impacts of irrigation efficiency improvement on water use, water consumption and response to water price at field level. *Agricultural Water Management*, 203, 423-429.
- Berbel, J., & Expósito, A.** (2018). Economic challenges for the EU Water Framework Directive reform and implementation. *European Planning Studies*, 26(1), 20-34.
- Expósito, A., & Berbel, J.** (2017). Why is water pricing ineffective for deficit irrigation schemes? A case study in southern Spain. *Water Resources Management*, 31(3), 1047-1059.
- Berbel, J., Gutiérrez-Martín, C., Rodríguez-Díaz, J. A., Camacho, E., & Montesinos, P.** (2015). Literature review on rebound effect of water saving measures and analysis of a Spanish case study. *Water Resources Management*, 29(3), 663-678.
- Berbel, J., & Mateos, L.** (2014). Does investment in irrigation technology necessarily generate rebound effects? A simulation analysis based on an agro-economic model. *Agricultural Systems*, 128, 25-34.
- Giannoccaro, G., & Berbel, J.** (2013). Farmers' stated preference analysis towards resources use under alternative policy scenarios. *Land Use Policy*, 31, 145-155.
- Mesa-Jurado, M. A., Martín-Ortega, J., Ruto, E., & Berbel, J.** (2012). The economic value of guaranteed water supply for irrigation under scarcity conditions. *Agricultural water management*, 113, 10-18.

C.3. Research projects

- Boosting Nexus Framework Implementation in the Mediterranean.** PRIMA Section1 project (Grant Number pending, approved Nov 2021 [04/2022 /03/2025])
- New agroecological approach for soil fertility and biodiversity restoration to improve economic and social resilience of Mediterranean farming systems.** PRIMA Section2 (Grant Number pending, approved Dec 2021 [06/2022 /05/2025])
- GOTHAM “Governance tool for sustainable water resources allocation in the Mediterranean through stakeholder's collaboration. Towards a paradigm shift in groundwater management by end-users”.** PRIMA Section 1 Grant. 301011 [01/04/2020 to 31-03-2023]
- CICYT actual Water policy-assessment in a context of water scarcity and climate change: hydro-economic model at river basin level integrating micro and macroeconomic effects.** PID2019-107127RB-I00 CICYT [01/2020 – 12/2023]
- SUWANU Europe** Network for effective knowledge transfer on safe and economic wastewater reuse in agriculture in Europe” for the RUR-15-2018-2019-2020 UE H2020 [01/2019- 06/2021]
- Rural Water and Food Security. China-EU Water Platform Project (CEWP).** Contract no: PI/2017/382-112. UE-External Actions.: [01/2018- 12/2022]

Analysis of public policies on water management in agriculture: uncertainty, climate change and DMA ECO2009-12496-C03-01/CICYT. [01/01/2010 – 31/12/2013]

Water Market Scenarios for Southern Europe: New Solutions for Coping with Increased Water Scarcity and Drought Risk? (CAP&TRADE) IWRM-NET (EUI2009-04151). [07/2012 – 06/2015]

Assessing the multiple impacts of the Common Agricultural Policies (CAP) on Rural Economics. (CAPIRE) UE-FP7-SSH-2007-1 [10/2007 -12/2010]

Prospective analysis of the sustainability of national agricultural systems within the framework of the CAP. CICYT AGL2006-05597-C04-02 [10/2006 – 09/2009]

The Sustainability of European irrigated agriculture under Water Directive and Agenda 2000. EVK1-2000-00640. European project coordinator [06/2000 – /02/2003]

C.4. Contracts, technological or transfer merits

Study of EU integrated policy assessment for the freshwater and marine environment, on the economic benefits of EU water policy and on the costs of its non-implementation. (BLUE2). ENV.C.2/ETU/2016/0030. European Commission. 01/01/2017-31/12/2018. Member of consortium (Responsible for UCO). Final Report available in https://ec.europa.eu/environment/blue2_en.htm

Baseline study for the implementation of lighthouses of Mission ‘Restore our ocean and waters by 2030’. European Commission. 01/01/2017-31/12/2018. Member of consortium. (Project director- UCO)

Support of development of ‘Andalusian Pact for the Water’ Junta de Andalucía. Project director [03/2020 – 12/2020] Budget 10.000 EUR

Irrigation needs and support to hydrological plan ‘Tinto-Odiel y Piedras Hydrological Demarcation’ Junta de Andalucía. Project director [02/2021 – 11/2021] Budget 10.000 EUR

Desarrollo de análisis de la demanda de agua en la agricultura y escenarios con la nueva PAC y análisis de beneficios ambientales. (Analysis of water demand and environmental benefits of water) Ministerio de Medio Ambiente. Project director [08/03/2007 – 08/09/2008] Supporting WFD implementation in Spanish Hydrological Planning. Budget 150.000 EUR

System of Water Accounting in the Guadalquivir River Basin. EU (DG.ENV)- Grant 07.0329/2013/671250/SUB/ENV.C1 [01/2014 – 02/2015]. Coordinator. Implementation of SEEA Water Accounts for River Basin Water Balance and hydro-economic accounting. Budget 50.000 EUR, see results in Borrego et al (2016). Estimation of cost recovery ratio for water services based on the SEEA-Water. *Water Res. Manage.*, 30(2), 767-783.

Investment behaviour in conventional and emerging farming systems under different policy scenarios 150369-2005 F1SC IT. Responsible. Contractor: JRC (IPTS) European Commission: [12/2005 – 09/2007]