
ENCARNA ESTEBAN

University of Zaragoza
School of Social Sciences and
Humanities
Department of Economic Analysis

Email: encarnae@unizar.es
Calle Atarazanas 4
44003 Teruel
Tfno.: (+34) 978.645394

EDUCATION

B.A. in Economics, University of Zaragoza, 2004
M.A. in Economics, University of Zaragoza, 2006
M.Sc. Agricultural and Resource Economics. University of Connecticut,
2008 Ph.D. in Economics, University of Zaragoza, 2010

ACADEMIC POSITIONS:

2016- present: Associate Professor, Department of Economic Analysis, School
of Humanities and Social Sciences, University of Zaragoza.
2012- 2016: Assistant Professor, Department of Economic Analysis, School
of Humanities and Social Sciences, University of Zaragoza.
2011-2012: Assistant Professor, Centro Universitario de la Defensa,
Zaragoza. 2009-2010: Teaching Assistant. University of Zaragoza.

OTHER POSITIONS

2010-2011: Post-doctoral Researcher. University of California, Riverside.
2009-2010: Research Fellow. Agrifood Research and Technology Center
Government of Aragon (CITA-DGA).
2007-2008: Research and Teaching Assistant. Department of Agricultural
and Resource Economics, University of Connecticut.
2005-2009: Research Assistant. Agrifood Research and Technology Center
– Government of Aragon (CITA-DGA).

FIELD OF RESEARCH

Water Economics, Environmental and Natural Resource Economics, Natural Resource
Modeling, Political Economy

HONORS, FELLOWSHIPS, AND AWARDS

- 2016: Rollie Lamberson Research Award – For the most outstanding papers in natural resource modeling published in the previous two years.
- 2012: Spanish National Research Council (CSIC). Post-doctoral Contract JAE-DOC.
- 2007-2008: Research Assistant Fellowship, University of Connecticut.
- 2005-2009: Fellowship, Spanish Ministry of Education and Science, FPI-INIA. PhD.
- 2004: B.A. Award - Caja Inmaculada (CAI)
- 2004-2005: Fellowship, IberCaja-University of Zaragoza. M.A.
- 2004-2004: Research Fellowship, University of Zaragoza. (3 months)
- 2003-2004: Collaboration Fellowship, University of Zaragoza.

FUNDED RESEARCH PROJECTS AS PRINCIPAL INVESTIGATOR

- 2020-2021: Jóvenes Investigadores Universidad de Zaragoza - Research Project.
Total: 2,500€.
- 2020-2021: Fundación Antonio Gargallo - Research Project in Social Sciences.
Total: 1,982€.
- 2018-2019: Projects CUD-UNIZAR. Centro Universitario de la Defensa and University of Zaragoza. P Research Project (IP). Total: 1,500€.
- 2015: Research Fellowship Grant ‘José Castillejo’ - Conduct research projects abroad, Spanish Ministry of Education and Science.
Total: 11.600€
- 2015: Jóvenes Investigadores Universidad de Zaragoza. Research Project (P).
Total: 2,000€.

PUBLICATIONS

Referred Journals

1. Esteban E., Dinar A., and Albiac J. 2019. “Determinants of Water Lobbying: Irrigators’ Behavior in a Water-Stressed Basin.” **Water Policy**, 21(5), 1107-1122.
2. Berbel J. and Esteban E. 2019. “Droughts as a catalyst for water policy change: Analysis of Spain, Australia (MDB), and California.” **Global Environmental Change** 58, 101969.
3. Sanz-Hernández A., Esteban E., and Garrido P. 2019. "Transition to a bioeconomy: Perspectives from social sciences". **Journal of Cleaner Production** 224, 107-119.
4. Crespo D., Albiac J., Kahil T., Esteban E., and Baccour S. 2019. “Tradeoffs between Water Uses and Environmental Flows: A Hydroeconomic Analysis in the Ebro Basin”. **Water Resources Management** 33, 2301-2317.

5. Esteban E., A. Dinar, J. Albiac, F. Calera, F. Avella and M. García-Molla. 2018 “Interest groups perceptions on water policy reforms: insight from a water stressed basin” **Water Policy** 20 (4): 794-810.
6. Esteban E. and J. Albiac. 2016. “Salinity pollution control in the presence of farm heterogeneity: An empirical analysis”. **Water Economics and Policy** 2(2): 1650017-1 – 1650017-20.
7. Esteban E. and A. Dinar. 2016. “Groundwater Dependent Ecosystems and Groundwater Management”. **Natural Resource Modeling** 29(1): 98-129. ***Rollie Lamberson Research Award – Most outstanding paper in natural resource modeling.***
8. Kahil T., J. Albiac, A. Dinar, E. Calvo, E. Esteban, L. Avellá and M. García-Molla. 2016. "Improving the Performance of Water Policies: Evidence from Drought in Spain". **Water** (8): 34-49.
9. Martínez Y. and E. Esteban. 2014. “Social choice and groundwater management: application of the uniform rule”. **Ciencia e Investigación Agraria** 41: 153-162.
10. Esteban E. and A. Dinar. 2013. “Packaging and sequencing of policy interventions for sustainable groundwater management”. **Journal of Environmental Management**, 119: 93-102.
11. Esteban E. and A. Dinar. 2013. “Cooperative Management of Groundwater Resources in the Presence of Environmental Externalities”. **Environmental and Resource Economics** 54(3): 443-469.
12. Esteban E. and J. Albiac. 2012. “The problem of sustainable groundwater management: the case of La Mancha aquifers, Spain”. **Hydrogeology Journal** 20(5): 851-863.
13. Esteban E. and J. Albiac. 2012. “Reflections on nonpoint pollution instruments for Spanish agriculture”. **International Journal of Water Resource Development** 28(1): 73-88.
14. Esteban E. and J. Albiac. 2011. “Groundwater and ecosystems damages: questioning the Gisser-Sánchez effect”. **Ecological Economics** 70(11): 2062-2069.
15. Esteban E., J. Tapia, Y. Martínez and J. Albiac. 2011. “Pigouvian taxation to control nonpoint pollution in the Ebro Basin”. **Spanish Journal of Agricultural Research** 9(4): 957-970.

Book Chapters

16. Esteban E., D. Crespo and J. Albiac. 2017. “El agua subterránea en España: Modernización, gestión de acuíferos y ecosistemas”. En Julio Berbel y Carlos Gutiérrez. Efectos de la modernización de regadíos en España. Colección de Economía. Fundación Cajamar. Vol. 30. ISBN: 978-84-95531-83-4
17. Albiac J., A. Dinar, M. Taher Kahil, E. Esteban. 2015. The debate on sustainable water management: Evidence from drought in the Jucar basin. En J. Andreu, A. Solera, J. Paredes, D. Haro, H. Van Lanen (Eds.) Drought Research-Policy

Interfacing. CRC Press/Bakelma. Leiden.

18. Albiac J., Calvo E. and Esteban E. 2014. "River basin governance and water policies in Spain". Editors: D. Garrick, G.R.M. Anderson, D. Connell and J.Pittock. Federal Rivers: Managing Water in Multi-Layered Political Systems. Edward Elgar Publishing. ISBN: 978-1 78195 504 8.
19. Albiac J., Kahil M.T. and Esteban E. 2013. "Cambio climático". Editors: J.A. Gómez-Limón and E. Reig-Martínez. La sostenibilidad de la agricultura española. Fundación Cajamar.
20. Albiac J., Esteban E., Tapia J. and Rivas E. 2013. "Water scarcity and droughts in Spain: Impacts and policy measures". Editors: Schwabe K., Albiac J, Connor J., Hassan R. and Meza González L. Drought in Arid and Semi-Arid Regions. Springer.
21. Albiac J., E. Calvo, J. Tapia, and E. Esteban. 2010. "Water quality and nonpoint pollution: comparative global analysis". Editors: A. Garrido, E. Lopez-Gunn, and L. Martínez-Cortina. Re-Thinking Water and Food Security: Fourth Botin Foundation Water Workshop. eds. Balkema (Francis and Taylor Group). ISBN: 978-04155-87907.
22. Esteban E. 2010. "Los servicios de los ecosistemas y la gestión forestal en España". Editor: O. Llorenç. Programa Educatiu Incendi de L'Alcalatén. Eds. IES la Vall d'Alba. ISBN: 978-84-608-1002-5.
23. Esteban E. 2009. "Non-Uniform Input Tax Instrument to Control Nonpoint Saline pollution from Irrigation". Editors: P. Sauer and J. Sauerová. Environmental Economics and Management. Young Scholars Perspective. Eds. Litomyšl Seminar Publishing. ISBN: 978-80-86709-15-4.
24. Esteban E., Tapia J., Martínez Y., y Albiac J. 2009. "Los instrumentos para la gestión de la cantidad y la calidad del agua: revisión crítica". En Gómez-Limón J.A., Garrido A., Calatrava J., y Xabadía A. La economía del agua de riego en España, eds. Fundación Cajamar (Colección de Economía). ISBN: 978-84-95531-45-2.

Other publications

25. Esteban E. 2020. "El reto de la agricultura de regadío ante el deterioro de los recursos hídricos". **Red de Intercambio de Conocimiento Agroalimentario (RICA)**. Opiniones y Experiencias, abril 2020.
26. Albiac J., Dinar A., Esteban E., Kahil T. 2018. "The Role of Policies in Managing Scarce Water Resources". **SCIENTIA**. DOI: 10.26320/SCIENTIA.
27. Crespo, D., J. Albiac, T. Kahil, and E. Esteban. 2018. "Asignación sectorial y espacial del agua en la Cuenca del Ebro: impactos de la escasez y las sequías" **Revista Española de Estudios Agrosociales y Pesqueros**, 250: 127-159.

28. Esteban E. and A. Dinar. 2016. The role of groundwater ecosystems in groundwater management. **Resource Modeling Association Newsletter**, Fall 2016: 2-4.
29. Kahil T., J. Albiac, A. Dinar, E. Esteban, L. Avellá and M. García-Molla. 2016. "El debate sobre las políticas de agua: evidencia empírica de la sequía en el Júcar". **Revista Española de Estudios Agrosociales y Pesqueros**, 243: 115-144.
30. Saz I. and E. Esteban. 2015. "Importancia y valoración económica de los activos ambientales en el turismo de la Sierra de Albarracín". Fuentes, Manantiales y Otros Puntos de Agua de la Sierra de Albarracín: aproximación a su estudio e inventario. Albaqua - Centro de Estudios de la Comunidad de Albarracín.
31. Albiac J., T. Kahil, A. Dinar, E. Esteban, M. García-Molla and L. Avellá. 2015. "El debate sobre la gestión sostenible de los recursos hídricos: evidencia empírica de la Cuenca del Júcar". *Boletín Inter Cuencas - Fenacore* 44: 12-14.
32. Soriano M.A., V. Monterde and E. Esteban. 2014. "Cambio de ciclo en la economía turolense durante el período de la crisis económica, 2007-2013". Forthcoming **Economía Aragonesa**.
33. Esteban E. and J. Albiac. 2012. "Water Nonpoint Pollution Problems in Europe". GWF Discussion Paper 1224, **Global Water Forum**, Canberra, Australia. Available online at: <http://www.globalwaterforum.org/2012/07/03/water>

PRESENTATION IN SCIENTIFIC CONFERENCES

- 2019: *Chapman Conference – Quest for Sustainability of Heavily Stressed Aquifers at Regional to Global Scales*. Valencia (Spain), 21-24 October.
24th Annual Conference of the European Association for the Environmental and Resource Economists (EAERE). Manchester (UK), 26-29 June.
- 2018: *VIII Conference of the Spanish-Portuguese Association of Natural Resources and Environmental Economics (AERNA)*. Madrid (Spain), 3-5 September.
6th World Congress of Environmental and Resource Economists. Gothenburg (Sweden), 25-29 June.
- 2017: *23rd Annual Conference of the European Association for the Environmental and Resource Economists (EAERE)*. Athens (Greece), 28-1 July.
- 2017: *World Conference on Natural Resource Modeling – WCNRM17*, Barcelona (Spain), 6-9 June.
- 2016: *World Conference in Natural Resource Modeling*, Flagstaff (Arizona, USA), 14-17 June.
School of Public Policy Seminar Series. University of California, Riverside (USA). 27 June.

- Seminario sobre La Modernización del Regadío*. Fundación Cajamar. Valencia (Spain), 27 September.
- 2015: *III Workshop Jóvenes Investigadores en Economía y Empresa*, Universidad de Zaragoza. Teruel (Spain), 1-3 September.
- 2014: *VI Congress of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA)*, Girona (Spain), 4-6 September.
World Congress of Environmental and Resource Economics (WCERE). Istanbul (Turkey), 28-2 July.
- 2013: *20th Annual Conference of the European Association for the Environmental and Resource Economists (EAERE)*. Toulouse (France), 26-29 June
- 2012: *19th Annual Conference of the European Association for the Environmental and Resource Economists (EAERE)*. Prague (Czech Republic), 27-30 June
- 2011: *American Environmental and Resource Economics - AERE Summer Conference*. Seattle (USA), 9-10 June
UCOWR/NIRW Annual Conference. Boulder (USA), 12-14 July 2011
- 2010: *7th International Conference Developments in Economics Theory and Policy*. University of Basque Country, Bilbao, 1-2 July
- 2009: *11th International Conference of Postgraduate Students, Young Scientists and Researchers*. Environmental Economics, Policy and International Environmental Relations. Prague (Czech Republic), 12-13 October
Applied Economics Seminar at University of California, Department of Economics, Riverside (USA). Riverside, CA, 1 June
- 2008: *Climate Change: Global Risks, Challenges and Decisions Conference* Copenhagen (Denmark), 10-12 March
III Congreso de la Asociación Hispano-Portuguesa de Economía de los Recursos Naturales y Ambientales (AERNA). Palma de Mallorca, 4-6 June
Cicle de Conferències sobre l'incendi de L'Alcalatén de 2007. IES. Vallid'Alba (Castellón), 8-9 May
- 2007: *15th Annual Conference of the European Association for the Environmental and Resource Economists*. Thessaloniki (Greece), 27-30 June

OTHER SCIENTIFIC ACTIVITIES

Scientific Collaborator: International Center for Research on the Environment & the Economy – ICRE8 (<http://www.icre8.eu/>)

Affiliate Researcher: Water Science and Policy Center, University of California, Riverside.

Coordinator – ‘Environmental Management and Ecosystem Area’ – Circular Society Lab (University of Zaragoza) - <https://circularsocietylabs.unizar.es/#>

European Representative NATURAL RESOURCE MODELING ASSOCIATION

Committee Member:

I Workshop de Jóvenes Investigadores. Facultad de Ciencias Sociales y Humanas de Teruel. Universidad de Zaragoza. 5-6 Septiembre 2013.

WaterScience and Policy Center Spring Seminar Series”. University of California, Riverside (USA). Enero-Mayo 2011

Special Session Organizer:

Groundwater and Ecosystems: Economics of groundwater management and the well-being of ecological systems. 19th Annual Conference of the European Association of Environmental and Resource Economicists (Prague 2012)

Associate Editor:

- *Water Economics and Policy*
- *Frontiers in Marine Science – Ocean Engineering, Technology, and Solutions for the Blue Economy*

Member: Natural Resources Association, European Association of Environmental and Resource Economists (EAERE), Asociación Hispano-Portuguesa de Economistas de los Recursos Naturales (AERNA), Red Española de Economistas del Regadío en España (ECORIEGO).

COURSES TAUGHT

Microeconomics Theory - Consumption and Production, (coordinator). Undergraduate Level. University of Zaragoza.

Introductory Econometrics (coordinator). Undergraduate Level. University of Zaragoza
Business Economics (Theory of the Firm – Microeconomics). Undergraduate Level. Centro Universitario de la Defensa, Zaragoza.

Fundamentals of Business Administration. Undergraduate Level. Centro Universitario de la Defensa, Zaragoza.

World Economy and Spanish Economy. Undergraduate Level. University of Zaragoza.

Environmental and Resource Economics (Teaching Assistant). Undergraduate Level. University of Connecticut, Storrs.

Last update: June 2020