

Curriculum Vitae

Personal information

Surname(s) / First name(s)

BLANCO Maria

Office Address

Departamento de Economía Agraria, ETS Ingeniería Agronómica, Alimentaria y de Biosistemas
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[Google Scholar](#)

Nationality

Spanish

Areas of interest

Quantitative analysis of agricultural, trade and environmental policies.

Agricultural sustainability. Development of bioeconomic modelling tools for the integrated assessment of agricultural and environmental policies.

Analysis of food-water-energy nexus in a context of global change.

Agricultural markets, food security, international trade and economy-wide modelling.

Foresight analysis.

Work experience

Current appointment

Associate Professor, Dec 2001 –...

Department of Agricultural Economics, [Technical University of Madrid](#) (Spain).

Main responsibilities

Teaching Master courses in Agro-Economic Modelling and Applied Microeconomics as well as undergraduate courses in Agricultural Economics.

Coordination of the [Master in Agricultural, Food and Resource Economics](#) at the Technical University of Madrid.

Coordination of the innovation group [AgroEcoS](#) (Agroeconomis, Agrofood systems, Agroecosystems).

Research on quantitative analysis of agricultural, trade and environmental policies. Current research work and responsibilities:

- Development of complex agro-economic models for the ex-ante assessment of agricultural and environmental policies.
- Director of Research in H2020 projects: [SIM4NEXUS](#): Sustainable Integrated Management FOR the NEXUS of water-land-food-energy-climate for a resource-efficient Europe (2016-2020).
- Director of Research in Spanish projects: [SYNERCAP](#): Synergies between agricultural and environmental policies aiming at the sustainability of Mediterranean agrosystems (2016-2019).
- Director of Research in EU FP7 projects: [TRUSTEE](#): Towards RUrAl Synergies and Trade-offs between Economic development and Ecosystem services (2013-2017).

Previous academic experience

Senior Researcher, Oct 2008 – Sep 2010

[European Commission Joint Research Centre](#), Seville (Spain).

Assistant Professor, Feb 1995 – Dec 2001

Department of Agricultural Economics, [Technical University of Madrid](#) (Spain).

Visiting Researcher, Feb 2000 – Jan 2001

International Centre for Advanced Mediterranean Agronomic Studies, [Mediterranean Agronomic Institute of Montpellier](#) (France).

Education and training

- 1999 PhD in Agricultural Economics. Universidad Politécnica de Madrid (Spain).
- 1995 M.Sc. in Agricultural Economics and Policy. International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Montpellier (France).
- 1992 First Degree in Agricultural Engineering. Universidad Politécnica de Madrid (Spain).

Personal skills and competences

Mother tongue(s)

Spanish

Other language(s)

Self-assessment

European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

(*) *Common European Framework of Reference for Languages*

Social skills and competences

- High level skills in drafting, presentation and communication of complex results.
- Working knowledge of English and French.
- Communication skills: More than 20 years of teaching/research experience at the University. Since 1996, invited lecturer in several international post-graduate programs, both in French and in English.
- Team work: Member of various research teams and international networks on agro-economic modelling.
- Intercultural skills: Highly experienced at working in intercultural environments. Have worked for several years in international organizations.

Organisational skills and competences

- Teaching management: Coordination of several courses at the University. Extensive experience in organisation of training activities in agro-economic modelling.
- Project management: Director of research in several national and international research projects.

Computer skills and competences

- Competent with most Microsoft Office programmes.
- Expertise in data management and econometric analysis (R software).
- Strong modelling skills in GAMS (high-level modelling system for mathematical programming).

Membership

Modelling consortia

Member of the [CAPRI](#) Consortium since 2005. CAPRI is a partial equilibrium model for the agricultural sector developed for policy impact assessment of the Common Agricultural Policy and trade policies from global to regional scale with a focus on the EU.

Research groups

Member of the Research Centre [CEIGRAM](#), UPM.
 Member of the Research Group ECOAGRENA, UPM.
 Member of the Innovation Center [itdUPM](#).
 Coordinator of the Innovation Group [AgroEcos](#) (Agroeconomics, Agrofood chains, Agroecosystems).

Professional societies

International Association of Agricultural Economists (IAAE)
 European Association of Agricultural Economists (EAAE)
 Asociación Española de Economía Agraria (AEAA)

Publications

Articles and books

- Blanco M, Ramos F, Van Doorslaer B, Martínez P, Fumagalli D, Ceglar A, Fernández FJ (2017). [Climate change impacts on EU agriculture: A regionalized perspective taking into account market-driven adjustments](#). *Agricultural Systems*, 156: 52-66. doi: 10.1016/j.agsy.2017.05.013
- Vega-Quezada C, Blanco M, Romero H (2016). [Production of Bioenergy in the Framework of Circular Economy: A Sustainable Circular System in Ecuador](#). In Singh and Chaudhary (Eds.): *Advances in Biofeedstocks and Biofuels, Volume One: Biofeedstocks and Their Processing*, p. 1-32. Scrivener Publishing/Wiley. doi: 10.1002/9781119117322.ch1
- Vega-Quezada CA, Blanco M, Romero H (2016). [The circular agriculture applied in neighboring countries: the case of biogas on the border between Ecuador and Perú](#). *New Biotechnology*, 33, 66-67. doi: 10.1016/j.nbt.2016.06.953
- Blanco M (2016). Policy Impact Assessment. In Shrestha et al. (Eds.): [Farm-level Modelling: Techniques, Applications and Policy](#), pp. 1-13. UK: CAB International. ISBN: 9781780644288.
- Vega-Quezada C, Blanco M, Romero H (2016). [Synergies between agriculture and bioenergy in Latin American countries: A circular economy strategy for bioenergy production in Ecuador](#). *New Biotechnology*. doi: 10.1016/j.nbt.2016.06.730.
- Fernández FJ, Ponce RD, Blanco M, Rivera D, Vásquez F (2016). [Water Variability and the Economic Impacts on Small-Scale Farmers. A Farm Risk-Based Integrated Modelling Approach](#). *Water Resources Management*, 30: 1357. doi: 10.1007/s11269-016-1227-8.
- Araujo-Enciso S.R., Blanco M., Artavia M., Ramos F., M'Barek R., Van Doorslaer B., Stanca L., Donmez A. (2016). Medium-term Drivers of Food Markets Variability and Uncertainty. In Garrido et al. (Eds.), ["Agricultural Markets Instability: Revisiting the Recent Food Crises"](#), pp. 59-73. London and New York: Routledge.
- Blanco M., Witzke HP, Perez-Domínguez I, Salputra G, Martínez P (2015). [Extension of the CAPRI model with an irrigation sub-module](#). Luxembourg: Publications Office of the European Union, EUR 27737 EN. doi: 10.2791/319578.
- Ponce R, Blanco M, Giupponi C (2015). [Welfare Effects of Water Variability in Agriculture. Insights from a Multimarket Model](#). *Water*, 7(6), 2908-2923.
- Fernández FJ, Blanco M (2015). [Modelling the Economic Impacts of Climate Change on Global and European Agriculture. Review of Economic Structural Approaches](#). *Economics*, 9(10), 1-53.
- Ponce R, Blanco M, Giupponi C (2014). [The economic impacts of climate change on the Chilean agricultural sector. A non-linear agricultural supply model](#). *Chilean journal of agricultural research*, 74 (4), 404-412.
- Blanco M, Viladrich M (2014). [La creación de un centro de intercambio de derechos de agua en la Cuenca del Segre y la contribución de los flujos de retorno](#). *ITEA - Información Técnica Económica Agraria*, 110 (4).
- Louhichi K, Gomez y Paloma S, Belhouchette H, Allen T, Fabre J, Blanco M, Chenoune R, Acs S, Flichman G (2013). [Modelling Agri-Food Policy Impact at Farm-household Level in Developing Countries \(FSSIM-Dev\): Application to Sierra Leone](#). JRC Scientific and Policy Report EUR 25962 EN, doi: 10.2791/14527. Luxembourg: Publications Office of the European Union, 2013.
- Blanco M, Adenauer M, Shrestha S, Becker A (2013). [Methodology to assess EU Biofuel Policies: The CAPRI Approach](#). JRC Scientific and Policy Report EUR 25837 EN. Luxembourg: Publications Office of the European Union, 2013.
- Blanco M, Van Doorslaer B, Britz W, Witzke HP (2012). [Exploring the feasibility of integrating water issues into the CAPRI model](#). JRC Scientific and Policy Report EUR 25649 EN. Luxembourg: Publications Office of the European Union, 2012.
- Belhouchette H, Blanco M, Wery J, Flichman G (2012). [Sustainability of irrigated farming systems in a Tunisian region: A recursive stochastic programming analysis](#). *Computers and Electronics in Agriculture*, 86, 100-110.

- Blanco M, García-Germán S, Bardaji I (2011). [El modelo de ayudas directas en la PAC post-2013: Análisis de impactos de escenarios potenciales](#). *Economía Agraria y Recursos Naturales*, 11 (2), 83-108.
- Blanco M, Flichman G, Belhouchette H (2011). *Dynamic Optimisation Problems: Different Resolution Methods Regarding Agriculture and Natural Resource Economics*. In: Flichman G (Ed.), [Bio-Economic Models applied to Agricultural Systems](#), pp. 29-57, doi:10.1007/978-94-007-1902-6. Springer, Dordrecht, Heidelberg, London, New York.
- Louhichi K, Kanellopoulos A, Janssen S, Flichman G, Blanco M, Hengsdijk H, Heckelei T, Berentsen P, Lansink AO, Van Ittersum M (2010). [FSSIM, a bio-economic farm model for simulating the response of EU farming systems to agricultural and environmental policies](#). *Agricultural Systems* 103: 585-597. doi: 10.1016/j.agsy.2010.06.006
- Janssen S, Louhichi K, Kanellopoulos A, Zander P, Flichman G, Hengsdijk H, Meuter E, Andersen E, Belhouchette H, Blanco M, Borkowski N, Heckelei T, Hecker M, Li H, Oude Lansink A, Stokstad G, Thorne P, van Keulen H, van Ittersum MK (2010). [A Generic Bio-Economic Farm Model for Environmental and Economic Assessment of Agricultural Systems](#). *Environmental Management*, 46: 862-877, doi:10.1007/s00267-010-9588-x.
- Blanco M, Burrell A, Gay SH, Henseler M, Kavallari A, M'Barek R, Pérez Domínguez I, Tonini A (2010). [Impacts of the EU biofuel target on agricultural markets and land use: a comparative modelling assessment](#). European Commission Joint Research Centre, Reference Report EUR 24449. Luxembourg: Publications Office of the European Union. doi:10.2791/45105
- Blanco M, Navarro Valbuena D, Viladrich M (2010). [¿Pueden los instrumentos económicos contribuir a la sostenibilidad del regadío en las regiones mediterráneas?](#) *Anales de Economía Aplicada* 2010, ISBN 978-84-92954-15-5.
- Louhichi K, Janssen S, Kanellopoulos A, Li H, Borkowski N, Flichman G, Hengsdijk H, Zander P, Blanco M, Stokstad G, Athanasiadis I, Rizzoli AE, Huber D, Heckelei T, van Ittersum MK (2010). [A generic Farming System Simulator \(FSSIM\)](#). In: Brouwer FM, van Ittersum MK (Eds.), [Environmental and Agricultural Modelling: Integrated Approaches for Policy Impact Assessment](#), doi:10.1007/978-90-481-3619-3_5. Springer, Dordrecht, The Netherlands.
- Delgado A, Blanco M (2009). [Modelo multicriterio para el Análisis de Alternativas de Financiamiento de Productores de Arroz en el Estado Portuguesa en Venezuela](#). *Agroalimentaria*, num. 28: 33-46.
- Iglesias E, Blanco M (2008). [New directions in water resources management: the role of water pricing policies](#). *Water Resources Research*, 44, W06417, doi:10.1029/2006WR005708.
- Iglesias Martínez E, Blanco M (2005). Nuevos enfoques metodológicos para caracterizar la demanda de agua en agricultura. In: De la Orden et al. (eds.), [El análisis económico en la Directiva Marco del Agua: Incidencias e implicaciones para España](#). pp. 367 - 387. Instituto Geológico y Minero de España, Madrid. ISBN 84-7840-630-1
- Blanco M, Iglesias Martínez E. (2005). [Modelling new EU agricultural policies: global guidelines, local strategies](#). In: Arfini F. (Ed.): [Modelling agricultural policies: state of the art and new challenges](#). Monte Università Parma Editore, Parma, Italy, pp. 831-843.
- Varela-Ortega C, Sumpsi JM, Blanco M (2003). Análisis económico de los conflictos entre el regadío y la conservación de humedales en el Alto Guadiana. In: Coletto C. et al. (eds), [Conflictos entre el desarrollo de las aguas subterráneas y la conservación de los humedales: la cuenca alta del Guadiana](#). pp. 257 - 275. Coedición Fundación Marcelino Botín/Ediciones Mundi-Prensa. ISBN 84-95516-63-2
- Varela-Ortega C, Sumpsi JM, Blanco M (2002). [Water availability in the Mediterranean region](#). In: Brouwer F., Van der Straaten J. (eds.): [Nature and agriculture in the European Union](#). International Library of Ecological Economics. Edward Elgar Publishing Ltd. Cheltenham, UK, pp. 117-140.
- Blanco-Fonseca M (2002). [Análisis de políticas de modernización de regadíos en España: Aspectos económicos e institucionales](#). In: Del Moral L. (coord.): [La Directiva Marco del Agua: Realidades y Futuros](#). Universidad de Sevilla, Fundación Nueva Cultura del Agua y Universidad Pablo de Olavide, Sevilla, pp. 196-202.
- Varela-Ortega C, Sumpsi JM, Garrido A, Blanco M, Iglesias E (1998). [Water Pricing Policies, Public Decision Making and Farmers' Response: Implications for Water Policy](#). *Agricultural Economics* 19 (1-2), 193-202.
- Sumpsi JM, Garrido A, Blanco M, Varela-Ortega C, Iglesias E (1998). [Economía y Política de Gestión del Agua en la Agricultura](#). Coedición MAPA/Ediciones Mundi-Prensa, Madrid, 351 p.
- Garrido A, Iglesias E, Blanco M (1996). Análisis de la actitud de los regantes ante el establecimiento de políticas de precios públicos y de mercados de agua. *Revista Española de Economía Agraria* 178 (4), 139-162.

Conference papers

- Laspidou C, Witmer M, Vamvakeriou-Lyroudia L, Domingo X, Brouwer F, Howells M, Susnik J, Blanco M, Bonazountas M, Fournier M, Papadopoulou M (2017). The water-land-food-energy-climate Nexus for a research efficient Europe. 15th International Conference on Environmental Science and Technology (CEST), Rhodes, Greece, 31 August-2 September 2017.
- Masia S, Sušnik J, Mereu S, Spano D, Marras S, Blanco M, Trabucco A (2017). Water-Food-Energy nexus and climate change for multipurpose reservoirs in Sardinia. Dresden Nexus Conference 2017 "SDGs and Nexus Approach: Monitoring and Implementation", Dresden, Germany, 17-19 May 2017.
- Satama-Bermeo M, Blanco M, Vega-Quezada C (2016). Evaluación del impacto de las ferias agroecológicas en el Ecuador. XII Congreso de la Sociedad Española de Agricultura Ecológica/Agroecología. Lugo, España, 21-23 Septiembre 2016.
- Vega-Quezada C, Blanco M, Romero H (2016). The circular agriculture applied in neighbouring countries: the case of biogas on the border between Ecuador and Perú. 17th European Congress on Biotechnology. Krakov, Polonia, July 3-6, 2016.
- Bubbico A., Martínez P., Blanco M., Breen J. (2015). Impact of CAP green payment on different farming systems: the case of Ireland and Spain. 148th EAAE Seminar "Does Europe need a Food Policy?", Brussels, Belgium, November 30 – December 1, 2015.
- Martínez P, Blanco M (2015). Impact of CAP green payment on Spanish agriculture. X Congreso Nacional de Economía Agraria, Córdoba, Spain, September 9-11, 2015.
- Martínez P, Blanco M, Van Doorslaer B, Ramos F, Stanca L (2015). [What role does climate change play in agricultural market uncertainty? An integrated assessment taking into account market-driven adjustments.](#) 29th International Conference of Agricultural Economists "Agriculture in an Interconnected World", Milan, Italy, August 8-14, 2015.
- Ramos F, Blanco M, Van Doorslaer B, Fumagalli D, Ceglar A, Detenter F, Stanca L (2015). Biophysical modeling of climate change impacts on crop yields in Europe by 2030-2050 and socio-economic implications. International Scientific Conference "Our Common Future under Climate Change", Paris, France, July 7-10, 2015.
- Vega CA, Blanco M, Romero H (2014). Synergies between Agriculture and Bioenergy in Latin American Countries: The Potential Bio-economic Biodiesel in Ecuador. 16th International Biotechnology Symposium and Exhibition - IBS 2014 "Biotechnology for the Development of a Green Economy". Fortaleza, Brazil, September 14-19 2014.
- Blanco M, Ramos F, Van Doorslaer B (2014). [Economic impacts of climate change on agrifood markets: A bio-economic approach with a focus on the EU.](#) EAAE 2014 Congress "Agri-Food and Rural Innovations for Healthier Societies", Ljubljana, Eslovenia, August 26-29, 2014.
- Ponce R, Blanco M, Giupponi C (2014). The Economic Impacts Of Climate Change On The Chilean Agricultural Sector. EAAE 2014 Congress "Agri-Food and Rural Innovations for Healthier Societies", Ljubljana, Eslovenia, August 26-29, 2014.
- Ponce R, Blanco M, Giupponi C (2014). Climate Change, Water Scarcity in Agriculture and The Country-Level Economic Impacts. A Multimarket Analysis. 5th World Congress of Environmental and Resource Economists (WCERE 2014), Istanbul, Turkey, June 28-July 2, 2014.
- Blanco M, Viladrich M (2013). Estimación de las ganancias mínimas que debe garantizar la creación de un centro de intercambio de derechos de agua en la Cuenca del Segre. IX Congreso de Economía Agraria, Castelldefels (Spain), September 3-5, 2013.
- Blanco M, Britz W, Witzke HP, Van Doorslaer B (2013). Joint assessment of water and agricultural policies: a Pan-European multidimensional modelling approach. 133 EAAE Seminar on "Developing Integrated and Reliable Modeling Tools for Agricultural and Environmental Policy Analysis", Chania (Greece), June 15-16, 2013.
- Fernandez FJ, Blanco M (2013). Effectiveness of EU sustainability criteria on palm oil-based biodiesel: Literature review and quantitative analysis. 133 EAAE Seminar on "Developing Integrated and Reliable Modeling Tools for Agricultural and Environmental Policy Analysis", Chania (Greece), June 15-16, 2013.

- Blanco M, Van Doorslaer B, Britz W (2012). [Assessing agriculture-water relationships: a Pan-European multidimensional modelling approach](#). 126th EAAE Seminar, "New challenges for EU agricultural sector and rural areas. Which role for public policy?" Capri (Italy), June 27-29, 2012.
- Blanco M, Shrestha S, Adenauer M, Becker A (2012). Implications of biofuel support policies in Europe - a quantitative analysis in an open economy. 16th ICABR Conference – 128th EAAE Seminar, "The political economy of the bioeconomy: Biotechnology and biofuel", Ravello, Italy, June 24-27, 2012.
- Blanco M, Viladrich M (2012). Aspectos económicos de la creación de un centro de intercambio en la Cuenca del Segre. V AERNA Conference, Faro (Portugal), May 31-June 2, 2012.
- Becker A, Adenauer M, Blanco M (2010). [Impacts of European biofuel policies on agricultural markets and environment under consideration of 2nd generation technologies and international trade](#). International Agricultural Trade Research Consortium (IATRC) Conference "Climate Change in World Agriculture: Mitigation, Adaptation, Trade and Food Security", Stuttgart-Hohenheim, Germany, June 27-29, 2010.
- Blanco M, Navarro D, Viladrich M (2010). ¿Pueden los instrumentos económicos contribuir a la sostenibilidad del regadío en las regiones mediterráneas? XXIV ASEPELT, Alicante, June 16-19, 2010.
- Blanco M (2009). Water Framework Directive and Agriculture: Decision Support System to Assess Irrigation Sustainability in Southern Europe. EAERE Conference. Amsterdam, The Netherlands, June 24-27, 2009.
- Janssen S, Louhichi K, Kanellopoulos A, Zander P, Flichman G, Hengsdijk H, Li H, Heckelei T, Stokstad G, Borkowski N, Hecker M, Lansink AO, Blanco M, Meuter E, Van Ittersum MK (2009). Farming Systems SIMulator: First generic bio-economic farm model. On: Van Ittersum MK, J Wolf & HH Van Laar (Eds), 2009. Proceedings of the Conference on Integrated Assessment of Agriculture and Sustainable Development: Setting the Agenda for Science and Policy (AgSAP 2009). Egmond aan Zee, The Netherlands, March 10-12, 2009. Wageningen University and Research Centre, Wageningen, pag. 256-257. ISBN: 978-90-8585-401-2.
- Blanco M, Cortignani R, Severini S (2008). [Evaluating Changes in Cropping Patterns due to the 2003 CAP Reform. An Ex-post Analysis of Different PMP Approaches Considering New Activities](#). Paper to the 107th EAAE Seminar "Modeling of Agricultural and Rural Development Policies". Sevilla, Spain, January 29-February 1, 2008.
- Belhouchette H, Blanco M, Hengsdijk H, Wery J, Flichman G (2007). A Bio-Economic Modeling Approach to Assess the Environmental and Economic Sustainability of Farming Practices in a Tunisian Watershed. In: Donatelli M., Hatfield J., Rizzoli A. (Eds): Farming Systems Design 2007, Int. Symposium on Methodologies on Integrated Analysis on Farm Production Systems, Catania (Italy), September 10-12, 2007, Book 1 - Farm-regional scale design and improvement, pag. 23-24. ISBN 978- 88-7830-472-7.
- Blanco M, Iglesias E, Sumpsi JM (2004). Environmental and socioeconomic effects of water pricing policies: Key issues in the implementation of the Water Framework Directive. Paper to the 13th Annual Conference of the European Association of Environmental and Resource Economists (EAERE). Budapest, June 25-28, 2004.
- Belhouchette H, Blanco M, Flichman G (2004). Targeting sustainability of agricultural systems in the Cebalat irrigation district in Northern Tunisia: An economic perspective using a recursive stochastic model. Paper to the 13th Annual Conference of the European Association of Environmental and Resource Economists (EAERE). Budapest, June 25-28, 2004.
- Iglesias Martínez E, Blanco-Fonseca M, Herrero Velasco J (2004). Propuesta para promover la sostenibilidad del arrozal en Doñana: Un banco verde de aguas. Paper to the IV Congreso Ibérico de Gestión y Planificación del Agua. Tortosa (Spain), December 8-12, 2004.
- Iglesias E, Blanco M (2004). Impacto socioeconómico y ambiental de la reforma de la PAC en los regadíos españoles. Paper to the V Congreso de Economía Agraria (AEEA). Santiago de Compostela, September 15-17, 2004.
- Blanco M, Iglesias E, Sumpsi JM (2003). Modelling the Implementation of the Full Cost Recovery Approach in Spanish Irrigated Lands. Paper to the XI World Water Congress: Water Resource Management in the 21st Century. Madrid, October 5-9, 2003.
- Sumpsi JM, Varela-Ortega C, Blanco M (2001). La integración de objetivos ambientales en la política agraria: el caso de los regadíos de Daimiel. Paper to the IV Congreso Nacional de Economía Agraria, Pamplona, September 19-21, 2001.
- Varela-Ortega C, Blanco M, Sumpsi JM (2000). Integrating Irrigation Modernisation Programs and Water Pricing Policies: Empirical Evidence and Water Policy Implications. Poster to the XXVIII International Conference of Agricultural Economists. Berlin, August 13-19, 2000.

Other publications

- Varela-Ortega C, Sumpsi JM, Garrido A, Blanco M, Iglesias E (1997): Water Pricing Policies, Public Decision Making and Farmers' Response: Implications for Water Policy. Paper to the XXIII International Conference of Agricultural Economists. Sacramento, California, August 10-16, 1997.
- Castaño J, Martínez P, Blanco M (2017). ¿Es posible conocer el impacto socioeconómico de los Programas de Desarrollo Rural en España? *Agrícola Vergel*, 399: 59-62.
- Araujo-Enciso S, Blanco M, Artavia M, Ramos F, Fernández FJ, Van Doorslaer B, Fumagalli D, Ceglar A (2014). [Volatility modelling: long-term challenges and policy implications](#). ULYSSES-Scientific Paper nº 5, ULYSSES project, EU 7th Framework Programme.
- Artavia M, Blanco M, Araujo Enciso SR, Ramos F, Van-Doorslaer B, Fumagalli D, Niemeyer S, Fernández FJ, M'Barek R (2014). [Production and crop roots \(causes?\) of volatility measures including partial stochastic simulations of yields and macroeconomic variables](#). ULYSSES-Scientific Paper nº 2. ULYSSES project, EU 7th Framework Programme.
- Artavia M, Blanco M, Araujo Enciso SR, Ramos F, M'Barek R, Magrini E, Van-Doorslaer B, Donmez A (2014). [Long term drivers of food markets variability and uncertainty](#). ULYSSES-Policy Briefing 2. ULYSSES project, EU 7th Framework Programme.
- Diop D, Blanco M, Flammini A, Schlaifer M, Kropiwnicka MA, Mautner Markhof M (2013). [Assessing the impact of biofuels production on developing countries from the point of view of Policy Coherence for Development](#). Final Report for the European Commission, D.G. Development and Cooperation.
- Fernández FJ, Blanco M, Ceglar A, M'Barek R, Ciaian P, Srivastava AK, Lecerf R, Ramos F, Niemeyer S, Van-Doorslaer B (2013). [Still a challenge - interaction of biophysical and economic models for crop production and market analysis](#), Working Paper 3, ULYSSES project, EU 7th Framework Programme, Project 312182 KBBE.2012.1.4-05, <http://www.fp7-ulysses.eu/>
- Bardaji I, Garrido A, Iglesias E, Blanco M, Bielza M (2011). Las medidas de gestión de mercados en la nueva PAC. *Anuario 2011*. pp. 96 - 102. Fundación de Estudios Rurales, 2011.
- Blanco M, Himics M., Henseler M, Helaine S (2011). Drivers of Supply: EU Outlook - Sensitivity Analysis. In: Fellman T et al. (eds.), *Commodity Market Development in Europe – Outlook*. Proceedings of the October 2010 Workshop, pp. 55-57, doi:10.2791/60616, European Commission Joint Research Centre, 2011.
- Gay S, Kavallari A, Blanco M, Burrell A, Fellmann T, Helaine S, Henseler M, Himics M, M'Barek R (2010). Prospects for Agricultural Markets and Income in the EU 2010-2020, Part II, Scenarios: Quantitative analysis of uncertainties. In: *Prospects for Agricultural Markets and Income in the EU 2010-2020*, p. 53-76. Brussels (Belgium): European Commission - DG Agriculture and Rural Development, 2010.
- Blanco M (2010). [Literature Review of Methodologies to Generate Baselines for Agriculture and Land Use](#). CAPRI-RD Deliverable D4.1. CAPRI-RD collaborative project, EU 7th Framework Programme.
- Becker A, Adenauer M, Blanco M, Witzke HP (2010). [Development of a biofuel database for the CAPRI modelling system](#). Technical Paper, Institute for Food and Resource Economics (ILR), University of Bonn.
- Louhichi K, Flichman G, Blanco M (2009). [A generic Template for FSSIM](#). SEAMLESS Report No. 37. SEAMLESS integrated project, EU 6th Framework Programme, contract no. 010036-2, www.SEAMLESS-IP.org. ISBN 978-90-8585-125-7.
- Janssen SJC, Van Ittersum MK, Meuter E, Louhichi K, Flichman G, Blanco M, Zander P, Borkowski N, Hecker M, Stokstad G, Romstad E, Kanellopoulos A, Berentsen P, Lansink AO, Hengsdijk H, Van Keulen H, Thorne P, Thornton P, Li H, Rizzoli AE, Heckelet T (2009). [Integration of all FSSIM components within SEAMLESS-IF and a stand-alone Graphical User Interface for FSSIM](#). SEAMLESS Report no. 38. SEAMLESS integrated project, EU 6th Framework Programme, contract no. 010036-2, www.SEAMLESS-IP.org. ISBN 978-90-8585-126-4.
- Blanco M, Stokstad G, Rørstad PK, Romstad E (2009). [Perennial activities in FSSIM: Data collection and modelling approaches](#). SEAMLESS PD3.3.5.3. SEAMLESS integrated project, EU 6th Framework Programme, contract no. 010036-2, www.SEAMLESS-IP.org.
- Blanco-Fonseca M (1996). *Analyse des impacts socio-économiques et des effets sur l'environnement des politiques agricoles : Modélisation de l'utilisation agricole des ressources en eau dans la région espagnole de Castille-Léon*. CIHEAM-Institut Agronomique Méditerranéen de Montpellier, Collection Thèses & Masters, N° 32, Montpellier, 132 p.

Invited Speaker

- Blanco M. (2017). La bioeconomía como motor de cambio. Ponencia invitada en la Jornada Técnica Agroalimentaria "Bioeconomía y Agricultura". ETSIAAB-Cátedra Cajamar, Madrid (Spain), March 2017.
- Blanco M. (2017). La economía circular en el sector agrario: implicaciones económicas. Invited paper to the "X Jornada Fertilización para una agricultura sostenible: Economía circular e innovación". Cátedra Fertilización de Estudios Agroambientales, Madrid (Spain), March 2017.
- Blanco M. (2015). Utilizando Big Data para Evaluar Efectos Agroambientales y Contribuir al Diseño de Políticas más Sostenibles. Invited paper to the XXV Foro INIA "Big Data y sus aplicaciones en el ámbito agroalimentario". Madrid (Spain), December 2015.
- Blanco M. (2015). Bio-economic models: on-going developments at farm and regional level. Invited paper to the FSD Course 2015 "Analysis and Design of Sustainable Agricultural Systems: Concepts, Methods and Applications". Montpellier (France), September 2015.
- Blanco M. (2014). DAHBSIM – Dynamic Agricultural Household Bioeconomic Simulation Model. Invited paper to the Workshop "Household Farm-level Bio-Economic Modeling", Washington DC (USA), December 2014.
- Blanco M. (2014). Bio-economic models: concept and examples of application. Invited paper to the Workshop "Sustainable intensification and resilience of Agricultural Systems: An Integrated Assessment and Modelling of Agricultural Systems (IAAS) approach", Hammamet (Tunisia), November 2014.
- Blanco M. (2013). The food versus fuel debate. Invited paper to the Workshop "Biofuel Policy for a Low Carbon Future". Basque Centre for Climate Change (BC3), Bilbao (Spain), September 2013.
- Blanco M. (2013). EU Biofuel Support Policies: Implications for Agriculture and the Environment. Invited paper, Biofuels Seminar, Università Ca'Foscari Venezia, Venezia (Italy), March 2013.
- Blanco M. Viladrich M. (2013). Estimación de las ganancias que debe garantizar la creación de un centro de intercambio de derechos en la Cuenca del Segre. Invited paper to the seminar "Instrumentos económicos para la gestión del agua en España", Fundación IMDEA Agua, Alcalá de Henares (Spain), March 2013.
- Blanco M. (2011). Future supply and access to NPK. Invited paper to the Workshop "NPK - will there be enough plant nutrients to feed a world of 9 billion in the year 2050?". European Commission's Joint Research Centre, Brussels, 5-6 December 2011.
- Blanco M. et al. (2010). *EU outlook – sensitivity analysis supply*. Invited paper to the Workshop on "Commodity Market Development in Europe - Outlook". European Commission, DG Agriculture and Rural Development, Brussels, 5-6 October 2010.
- Blanco M. (2007). *Advanced Modelling Tools for Integrated Assessment of Water and Agricultural Policies*. Invited paper to the 3rd Regional Workshop on Water and Sustainable Development in the Mediterranean. Plan Bleu, Mediterranean Commission on Sustainable Development, Zaragoza, 19-21 March 2007.
- Blanco-Fonseca M. (2006). *Decision support system to assess environmental and socioeconomic effects of water pricing policies. A PMP approach*. Invited paper to the International Workshop on Hydro-Economic Modeling and Tools for Implementation of the European Water Framework Directive. Technical University of Valence, Valence, January 30-31th 2006.
- Blanco-Fonseca M. (2004). *Uso eficiente del agua en los regadíos*. Invited paper to the VII Congreso Nacional de Medio Ambiente. Madrid, November 22-26 th, 2004.
- Blanco M., Iglesias E. (2002). *Assessing Cost Recovery: Some Critical Issues In Mediterranean Countries*. Invited paper to the Seminar Europe of Water, Water of the Europeans: From economic enigma to operational reality. Implementing the economic elements of the Water Framework Directive. Lille, France, March 18-19th, 2002.

Economic modelling trainer

- The basic structure of CAPRI. CAPRI Training Session 2016, Dublin (Ireland), September 2016.
- Agro-economic Modelling with GAMS. Postgraduate Training Course, Universidad Politécnica de Madrid, several years (June 2016, June 2015, June 2014, November 2013, July 2008, July 2005).
- Scenario analysis: Impacts of climate change on EU agriculture. CAPRI Training Session 2015, Madrid (Spain), September 2015.
- Farm Level Modelling with GAMS. SRUC (Scottish Agricultural College), Edimburgo, Reino Unido, February 2014.

CAPRI basic structure. CAPRI Training Session 2014, Braunschweig (Germany), September 2014.

GAMS applied to Agro-economic Modelling. European Commission Joint Research Centre, Institute for Prospective Technological Studies, Sevilla, several years (April 2011, May 2010, February 2010, May 2005).

Training Workshop "Understanding Agro-economic Models and their Role in Policy Analysis". European Commission, DG Agriculture and Rural Development, Brussels. Sessions in March, September and October 2009.

An introduction to stochastic programming using GAMS. Operational Programme for Education and Initial Vocational Training (O.P. "Education"). Department of Agricultural Economics & Rural Development, Agricultural University of Athens, Greece, 17-18 May 2007.

Irrigation water management: economic and environmental aspects. Master of Science "Land and Water Resources Management: Irrigated Agriculture". International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Bari, Italy, several years (April 2008, April and May 2007, April and May 2006).

Programmation mathématique appliquée à l'exploitation agricole. Master of Science "Politiques et Choix Publics en Agriculture et Alimentation". International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Montpellier, France, 9 – 27 January 2006.

Modèles Quantitatifs pour l'Analyse des Politiques. Master of Science "Politiques et Choix Publics en Agriculture et Alimentation". International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Montpellier, France, 10-28 January 2005.

Modelización en Economía Agraria con GAMS (Agricultural Economic Modelling using GAMS). Post-graduate Training Course. Instructor: María Blanco Fonseca. Department of Agricultural Economics, Universidad Politécnica de Madrid, Spain, 5-9 July 2004.

Economie Agricole et Environnement : Méthodes de Modélisation (Agricultural economics and the environment: modelisation methods). Master of Science "Economie et Politique Agricole". International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Montpellier, France. Montpellier, several years (February 2004, March 2002, February 2001, February 2000).

International Workshop "Agricultural Sector Modelling and Applications to the Mediterranean Region". Post-graduate course, organized by IAV Hassan II, Department of Human Sciences, Rabat, Morocco; IRESA, National Agricultural Institute, Tunisia; and CIHEAM, Mediterranean Agronomic Institute of Montpellier, France. Rabat, 8-18 April 2002.

International Workshop "A Modelling Tool: Use of Gams in Agricultural Sector Modelling". Post-graduate course. METU-Department of Economics and CIHEAM-Mediterranean Agronomic Institute of Montpellier. Ankara, April 24 - May 6, 2001.

Les Méthodes de Modélisation pour l'Analyse Economique Quantitative de l'Agriculture Soutenable (Modelisation methods for quantitative economics analysis of sustainable agriculture). Master of Science "Economie et Politique Agricole". International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Montpellier, France. Montpellier, March 1998, March 1996.

Student Supervision

Fernández Jorquera, Francisco. PhD Dissertation: "Economic effects of climate change on agriculture: multi-scale assessment through regional mathematical programming models". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2017.

Satama Bermeo, Maritza. MsC Dissertation: "Impacto de las ferias agroecológicas en la reducción de la pobreza en Ecuador". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2016.

Ponce Oliva, Roberto Daniel. PhD Dissertation: "Economy-wide Impacts of Climate Change on Agriculture. Coupling Modeling Approach". Università Ca'Foscari, Venezia, 2013.

Vega Quezada, Cristhian. MsC Dissertation: "Potencial de las sinergias agrícolas-bioenergéticas en los países en desarrollo: Caso Ecuador". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2013.

Fernández Jorquera, Francisco. MsC Dissertation: "Potencial de Acuerdo de Libre Comercio entre UE-Indonesia y Malasia: Evaluación de impactos al sector agrícola a través del modelo de equilibrio parcial CAPRI". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2012.

Reviewer

García-Germán, Sol. MSc Dissertation: "El modelo de ayudas directas en la PAC post-2013: análisis de impactos de escenarios potenciales". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2011.

Delgado Foucault, Anolaima. PhD Dissertation: "Alternativas de financiación para la empresa agraria venezolana". Department of Agricultural Economics, Universidad Politécnica de Madrid, 2007.

Refereed Journals : European Review of Agricultural Economics, Agricultural Economics, Agricultural Systems, Journal of Agricultural Economics, Ecological Modelling, Environmental Science and Policy, Regional Environmental Change, Revista de Economía Aplicada, Economía Agraria y Recursos Naturales, Revista Española de Estudios Agrosociales y Pesqueros, Land Use Policy, Climatic Change, Water, Energy, Economie Rurale, Sustainability.