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Education

- 1983-1989 Ph. D. in Economics, 1989, University of Valencia, Spain.
Dissertation: "Non-renewable natural resource extraction under perfect competition."
- 1982-1983 Master in Energy Economics, University of Dijon and French Institute of Petrol, Paris, France.
- 1977-1982 Bachelor of Economics with Honours. University of Valencia, Spain.

Academic Appointments

- 2007- Professor, University of Valencia
- 1992-2006 Associate Professor, University of Valencia.
- 1989-1992 Assistant Professor, University of Valencia
- 1985-1989 Spanish Open University (UNED), Alcira-Valencia. Tutor.
- 1984-1989 Teaching Assistant, University of Valencia

Other Academic Appointments

- 10/01-01/02 Department of Economics, University of Southampton. Visiting Fellow.
- 10/95-11/95 Department of Agricultural & Resource Economics, University of California, Berkeley. Consultant.
- 06/94-08/94 Department of Agricultural & Resource Economics, University of California, Berkeley. Consultant.
- 1992-1993 Department of Agricultural & Resource Economics, University of California, Berkeley. Visiting Scholar.

Research and Teaching Interests

Environmental and natural resource economics; Intermediate and advanced microeconomics; Global environmental problems; Green innovation and taxation; Environmental policy in a dynamic setting.

Publication List

Articles in English in Refereed Journals

- [33] "Cournot Competition and Green Innovation in a Dynamic Oligopoly", (with Guiomar Martín-Herrán), *Environmental and Resource Economics*, Special Issue. Environmental Economics and Economic Dynamics, forthcoming.

- [32] "Porter Hypothesis vs. Pollution Haven Hypothesis: Can an Environmental Policy Generate a Win-Win Solution?", (with Francisco J. André and Claudia Ranocchia), *Energy Economics*, **146** (108477), 2025.
- [31] "The Strategic Role of Adaptation in International Environmental Agreements" (with Anna Viktoria Rohrer), *Journal of Environmental Economics and Management*, **124** (102938), 2024. Special Issue. Transboundary and Global Environmental and Resource Problems.
- [30] "Efficiency-Inducing Policy for Polluting Oligopolists" (with Guiomar Martín-Herrán), *Dynamic Games and Applications*, **14**: 195-222, 2024. Special Issue. Dynamic Games in Economics in Memory of Ngo Van Long.
- [29] "An Adaptation-Mitigation Game: Does Adaptation Promote Participation in International Environmental Agreements?" (with Miguel Borrero), *International Environmental Agreements: Politics, Law and Economics*, **22**:439-479, 2022.
- [28] "On Coincidence of Feedback and Global Stackelberg Equilibria in a Class of Differential Games" (with Guiomar Martín-Herrán), *European Journal of Operational Research*, **293**: 761-772, 2021.
- [27] "Emission Taxes and Feed-In Subsidies in the Regulation of a Polluting Monopoly" (with Ángela García-Alaminos), *SERIEs, Journal of the Spanish Economic Association*, **12**: 255-279, 2021.
- [26] "Optimal Environmental Policy for a Polluting Monopoly with Abatement Costs: Taxes versus Standards" (with Guiomar Martín-Herrán), *Environmental Modeling & Assessment*, **23**: 671-689, 2018.
- [25] "Second-Best Taxation for a Polluting Monopoly with Abatement Investment" (with Guiomar Martín-Herrán), *Energy Economics*, **73**:178-193, 2018.
- [24] "Sharing R&D Investments in Breakthrough Technologies to Control Climate Change", *Oxford Economic Papers*, **69** (2): 496-521, 2017. Special Issue. Transnational Environmental Protection.
- [23] "The Strategic Use of Innovation to Influence Environmental Policy: Taxes versus Standards" (with Rafael Moner-Colonques), *BE Journal of Economic Analysis & Policy*, **16**(2): 973-1000, 2016.
- [22] "The Timing of Environmental Policy in a Duopolistic Market" (with Rafael Moner-Colonques), *Economía Agraria y Recursos Naturales*, **15** (1): 11-40, 2015.
- [21] "Sharing R&D Investments in Cleaner Technologies to Mitigate Climate Change" (with Abeer El-Sayed), *Resource and Energy Economics*, **38**, 168-180, 2014.
- [20] "Dynamic Models of International Environmental Agreements: A Differential Game Approach" (with Emilio Calvo), *International Review of Environmental and Resource Economics*, **6** (4): 289-339, 2012.
- [19] "On Capturing Rent from a Non-Renewable Resource International Monopoly: Prices Versus Quantities", *Dynamic Games and Applications*, **1** (4): 558-580, 2011.
- [18] "Can International Environmental Cooperation Be Bought?" (with Cristina Fuentes-Albero), *European Journal of Operational Research*, **202**(1): 255-264, 2010.
- [17] "Neoclassical Growth Model, Environment and Technological Change: The Environmental Kuznets Curve" (with J.R. García and J.L. Hueso), *Energy Journal*, **30**: 143-168, Special Issue # 2, 2009.

- [16] "Foreign Monopoly and Self-enforcing Tariff Agreements under Integrated Markets: Prices versus Quantities" (with Dolores Alepuz), *Investigaciones Económicas*, **33**: 39-68, 2009.
- [15] "An Infinite-horizon Model of Dynamic Membership of International Environmental Agreements" (with Alistair Ulph), *Journal of Environmental Economics and Management* **54**: 296-310, 2007. Reprinted in *Game Theory and International Environmental Cooperation: Essential Reading*, edited by Michael Finus and Alejandro Caparrós. Edward Elgar, Chapter 45, 2015.
- [14] "Self-enforcing International Environmental Agreements Revisited" (with Alistair Ulph), *Oxford Economic Papers* **58**:233-263, 2006. Reprinted in *Game Theory and International Environmental Cooperation: Essential Reading*, edited by Michael Finus and Alejandro Caparrós. Edward Elgar, Chapter 7, 2015.
- [13] "On the Coincidence of the Feedback Nash and Stackelberg Equilibria in Economic Applications of Differential Games", *Journal of Optimization Theory and Applications* **128**: 203-220, 2006.
- [12] "Self-enforcing International Environmental Agreements with a Stock Pollutant", (with Begoña Casino). *Spanish Economic Review* **7**:89-109, 2005.
- [11] "Strategic Behavior and Efficiency in the Common Property Extraction of Groundwater", (with Begoña Casino). *Environmental and Resource Economics* **26**: 73-87. 2003. Also published in *Current Issues in the Economics of Water Resource Management: Theory, Applications and Policies*, edited by P. Pashardes, T. Swanson and A. Xepapadeas, Kluwer Academic Publishers, 105-122, 2002.
- [10] "A Note on Cooperative versus Non-Cooperative Strategies in International Pollution Control", (with Begoña Casino). *Resource and Energy Economics* **24**: 251-261. 2002.
- [9] "Competitive versus Efficient Extraction of a Common Property Resource: The Groundwater Case" (with Begoña Casino). *Journal of Economic Dynamics and Control* **25**: 1117-1137. 2001.
- [8] "Strategic Pigovian Taxation, Stock Externalities and Polluting Non-Renewable Resources", (with Luisa Escriche). *Journal of Public Economics* **79**: 297-313. 2001.
- [7] "Optimal Growth and Land Preservation", (with Renan Goetz). *Resource and Energy Economics* **20**: 345-372. 1998.
- [6] "Adjusting to Climate Change: Implications of Increased Variability and Asymmetric Adjustment Costs for Investment in Water Reserves", (with Anthony C. Fisher). *Journal of Environmental Economics and Management* **34**: 207-227. 1997.
- [5] "Long-Run Groundwater Reserves under Uncertainty" (co-author: J.P. Castro), *Investigaciones Económicas* **20**:71-88. 1996.
- [4] "Optimal Management of Groundwater with Increasing Demand", (with Juan P. Castro and Constantino Martínez). *Revista Española de Economía*, Special Issue: Natural Resources and Environment 161-189. 1994.
- [3] "Optimal Capital Accumulation and Stock Pollution: The Greenhouse Effect", (with Anthony C. Fisher). *Revista Española de Economía*, Special Issue: Natural Resources and Environment, 119-140. 1994.
- [2] "Adjustment Costs, Uncertainty and the Theory of Investment: The Case of Non-Renewable Natural Resources". *Journal of Environmental Economics and Management* **23**: 139-53, 1992.

- [1] "Returns to Scale, Adjustment Costs, and the Optimal Investment of the Mining Firm". *Energy Economics* **14**: 163-170. 1992.

Chapters in Books

- [34] "Sustainable Endogenous Growth and Pigovian Taxation", (with Juana Aznar). In *Progress In Economic Research*. Edited by A. Tavidze. New York: Nova Science Publishers, Chapter 6. 2002.
- [35] "Strategic Pigouvian Taxation and Optimal Pricing of Polluting Non-Renewable Resources". In *Spatial Economics and Ecosystems. The Interaction between Economics and the Natural Environment*. Edited by N. Georgantzis and I. Barrera Southampton: WIT Pres, Chapter 4. 2000.

Articles in Spanish in Refereed Journals

- [36] "Sustainable Growth and Environmental Policies in an AK Model with Abatement", (with Juana Aznar). *Ekonomiaz, Revista Vasca de Economía* **49**, 14-35. 2002.
- [37] "The Problem of Hydrologic Policy in Spain", (with Arturo González). *Revista de Economía Aplicada* **1**: 33-66. 1993.
- [38] "The Problem of Hydrologic Policy in Spain: An Economic Argument for the Transfers", (with Arturo González). *Revista de Economía Aplicada* **1**: 217-222. 1993.
- [39] "Competitive Equilibrium and Socially Optimal Exploitation of a Non-Renewable Resource with Decreasing Costs". *Revista Española de Economía* **8**: 219-238. 1991.
- [40] "Price and Quantity Competition in a Non-Renewable Natural Resource Duopoly with Product Differentiation", (with Juan P. Castro and Dolores Alepuz). *Investigaciones Económicas* **15**:555-573. 1991.

Other Publications in Spanish

- [41] "The Climate Change Policy: The National Allocation Plan 2008-2012 and the Market of CO₂ Allowances". *Economistas* **111**: 299-305. 2007.
- [42] "The Popular Party's National Hydrologic Plan Proposal: Contents and Assessment". *Economistas* **87**: 344-348. 2001.
- [43] "The Hydrologic Planning: Ten Years Later". *Economistas* **69**: 514-518. 1996.
- [44] "Some Comments on the Hydrologic Planning in Spain". *Economistas* **55**: 405-410. 1993.
- [45] "Groundwater Management Model", (with Juan P. Castro and Constantino Martínez). In *Economic Analysis and Natural Resource Management*. Edited by Diego Azqueta and Antonio Ferreiro. Madrid:Alianza Editorial, Chapter 13. 1994.
- [46] "Competitiveness Analysis of the Solar Energy for Water Heating in the Valencian Country". In *First Congress of Valencian Economy Proceedings*. Edited by *Generalitat Valenciana*. Valencia:Consellería d'Economia i Hisenda, 339-354. 1984.

Other Publications in French

- [47] "L'Eau Chaude Solaire dans l'Habitat Individuel II. Evaluation des Aides Publiques et Perspectives de Compétitivité". *Revue de l'Energie* **371**: 103-112. 1985.
- [48] "L'Eau Chaude Solaire dans l'Habitat Individuel I. Evaluation Microéconomique". *Revue de l'Energie* **370**: 31-38. 1985.

Press publications in Spanish

- [49] "Balanza energética y prospecciones petrolíferas." El País, January 6, 2013.
- [50] "Los desequilibrios macroeconómicos del sector energético español." El País. May 26, 2013.
- [51] "Nordhaus y la economía del cambio climático." El País. October 21, 2018.
- [52] "El mercado eléctrico y el sistema marginalista de fijación de precios" El País. September 23, 2021.

Contract and Grant Support

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|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023-2026 | The challenges of the digital economy: information, competition policy, regulation, transport, industry transformation, environment, inequality, and gender. <i>Generalitat Valenciana</i> (CIPROM/2022/29) |
| 2023-2025 | Clean technologies, sustainable transport, and international environmental agreements. Spanish Ministry of Science and Innovation (Grant PID2022-136805OB-I00) |
| 2020-2022 | Modelling transportation systems and environmental issues in imperfect competitive markets affected by innovation. Spanish Ministry of Science and Innovation (Grant PID2019-107895RB-I00) |
| 2019-2022 | Strategic Behavior Economics. <i>Generalitat Valenciana</i> (PROMETEO/20197095) |
| 2017-2019 | R&D, energy and transport policies in a context of imperfect competition and externalities. Spanish Ministry of Economics and Competitiveness (Grant ECO2016-77589-R) |
| 2014-2016 | Competition in transportation systems and innovation: how the interactions of various externalities affect Industrial and Environmental Policy. Spanish Ministry of Economics and Competitiveness (Grant ECO2013-45045-R) |
| 2011-2013 | Economic analysis of the international cooperation to face global environmental problems. Spanish Ministry of Science and Innovation (Grant ECO2010-21539) |
| 2009-2017 | Excellence Research Group on Strategic Behavior Economics. Program. Valencian Government. |
| 2008-2010 | International cooperation and global environmental problems. Spanish Ministry of Education and Science (Grant SEJ2007-67400) |
| 2005-2007 | International environmental agreement stability: heterogeneity, rationality and dynamic analysis. Spanish Ministry of Education and Science (Grant SEJ2004-05704) |
| 2004-2005 | International environmental agreement stability: heterogeneity, rationality and dynamic analysis. Research contract with <i>Banco Bilbao Vizcaya Argentaria</i> Foundation. |
| 2003 | International environmental agreement stability: dynamic analysis and leadership. Research contract with the Valencian Institute of Economic Researches. |

- 2001-2004 Economic growth, environmental quality and international cooperation on global environmental problems. Spanish Ministry of Science and Technology (Grant BEC2000-1432)
- 2001 University of Valencia Fellowship for visiting foreign Universities.
- 2000 International cooperation on a carbon tax. Research contract with the Valencian Institute of Economic Researches.
- 1999-2000 Growth, international trade and environmental quality: The Pigovian taxes as an instrument of environmental policy. Valencian Autonomous Government (Grant GV98-08-104)
- 1998 Economic analysis of the relation between growth and environmental quality. Research contract with the Valencian Institute of Economic Researches.
- 1998 Dynamic economy, natural resources and environment. Spanish Ministry of Education and Science (Grant PB96-0664-C02-02)
- 1994-1995 Adjusting to global climate change: A theoretical analysis with an application to California water resources. U.S. Department of Commerce, National Oceanic & Atmospheric Administration grant NA46GP0220 and Western Regional, National Institute for Global Environmental Change grant WEGEC Project 94-037. Main Researcher: Anthony C. Fisher, University of California, Berkeley.
- 1993-1996 Analysis of water resource optimal management: Environmental implications and economic policy design. Ministry of Education and Science (Grant SEC93-1163)
- 1992-1993 Spanish Ministry of Education and Science Fellowship for Visiting Foreign Universities.
- 1991-1992 Sharing scarce fresh water resources in the Mediterranean basin: An economic perspective. European Science Foundation Grant.
- 1983-1984 Spanish Ministry of Education and Science Graduate Fellowship.
- 1982-1983 French Ministry of Foreign Affairs Graduate Fellowship.

Teaching activities

- Microeconomics (Master course)
- Environmental Economics (optional fourth year undergraduate course)

Conference and Workshop Presentations

- Spanish Symposium of Economic Analysis/Symposium of the Spanish Economic Association 1990, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2002, 2004, 2005, 2008, 2015, 2016, 2019, 2021, 2023, 2024.
- Conference of the Spanish-Portuguese Association of Environmental and Resource Economics 2004, 2006, 2008, 2010 (Invited Speaker), 2014, 2016, 2018 (Invited Speaker), 2021, 2022, 2024.
- Annual Conference of the European Association for Research in Industrial Economics, 2007, 2024.
- International Symposium on Dynamic Games and Applications, International Society of Dynamic Games, 2005 (Invited Speaker), 2016, 2018, 2024.

- Oligo Workshop, 2024.
- 2nd Workshop on Dynamic Games and Applications, 2023.
- Spanish-Portuguese Association of Environmental and Resource Economics Workshop on Game Theory and the Environment, 2015, 2017, 2023.
- Jornadas de Economía Industrial 1990, 2017, 2023.
- First Young Spanish-Portuguese Association of Environmental and Resource Economics Day 2023 (Discussant).
- International Society of Dynamic Games Workshop, 2017, 2023.
- Annual Conference of the European Association of Environmental and Resource Economists 1994, 1996, 1999, 2000, 2001, 2003, 2005, 2009, 2015, 2017, 2019, 2022.
- Environmental Protection and Sustainability Forum, University of Exeter Business School, Exeter, United Kingdom, 13-15 April 2011 (Invited Speaker). University of Graz, Austria, 28-30 September 2022 (Invited Speaker).
- Florence School of Regulation Climate Annual Conference 2022.
- Annual Conference of the Italian Association of Environmental and Resource Economists 2020.
- Urban Economics Workshop, "Pressing and Challenging Changes", University of Alberta, Canada, 27-29 May, 2019 (Invited Speaker)
- 2019 World Conference on Natural Resource Modelling, HEC Montréal, Canada, 22-24 May, 2019.
- 3rd International Workshop on the Economics of Climate Change and Sustainability, University of Bologna, Italy, 3-4 May, 2019 (Invited Speaker)
- World Congress of Environmental and Resource Economists 1998, 2002, 2006, 2014, 2018.
- Annual Congress of the European Economic Association 1995, 1996, 2000, 2006, 2009, 2014, 2015, 2018.
- First Joint Congress of Mathematics RSME-SCM-SEIO-SEMA MAT.ES 2005, Valencia, Spain, January 31 – February 4, 2005 (Invited Speaker). IV Joint Congress RSME-SMM 2017, Valladolid, Spain, June 19-22, 2017 (Invited Speaker).
- 19th Annual BIOECON Conference, University of Tilburg, 2017.
- Singapore Economic Review Conference 2017.
- Annual Summer Conference of the Association of Environmental and Resource Economists 2016.
- 2015 Spring Conference: Global Harmonized Carbon Pricing. Looking Beyond Paris. Yale Center for the Study of Globalization, New Haven, CT, USA, 27-28 May, 2015 (Invited Speaker).
- Fifth Workshop on Game Theory in Energy, Resources and Environment, HEC Montréal, Montréal, Canada, 26-27 May 2014 (Invited Speaker).

- Challenges of Oil E&P in Spain, ACIEP, Madrid, Spain, 16 April 2013 (Invited Speaker).
- Second Workshop on Dynamic Games in Economics, Rimini Center for Economic Analysis, Rimini, Italy, 13-14 December 2010 (Invited Speaker).
- 2nd Valencia-Louvain Workshop on Game Theory and Economic Behavior, CORE, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 28 May 2010.
- Resource Economics, Environmental Economics, and Climate Change – 2009, Krasnoyarsk, Russia, 1-7 July 2009 (Invited Speaker).
- Coalitions for Climate Change. A Game-Theoretic Analysis of Post 2012 Climate Policy, Venice, 15-16 June 2009 (Invited Speaker).
- 3rd Atlantic Workshop on Energy and Environmental Economics, A Toxa, Spain, 4-5 July, 2008 (Invited Speaker).
- Workshop on Natural Resource Management and Dynamic Optimization, Girona, Spain, 30-31 May, 2008 (Invited Speaker).
- 1st International Conference. Small Open Economies in a Globalized World, Rimini, Italy, 29 August – 2 September, 2006 (Invited Speaker).
- 6th Meeting on Game Theory and Practice Dedicated to Development, Natural Resources and the Environment, Saragossa, Spain, 10-12 July 2006.
- Monte Verità – Conference on Sustainable Resource Use and Economic Dynamics SURED 2006, Ascona. Switzerland, 4-9 June 2006.
- European Meeting of the Econometric Society 1991, 1994, 1996, 1997, 1999, 2002, 2006.
- VII National Congress of Economics, A Coruña, Spain, 28-30 September, 2005 (Invited Speaker).
- Workshop on Public Economics and the Environment, Andalusian Studies Centre Foundation, Seville, Spain, November 12-13, 2005 (Invited Speaker).
- VI Spanish Meeting on Game Theory and Practice, Elche, Spain, July 12-14, 2004.
- Summer Meeting of Economic Analysis, University of Vigo, Spain, September 12-13, 2003 (Invited Speaker).
- Sevilla Workshop on Dynamic Economics and the Environment, Andalusian Studies Centre Foundation, Seville, Spain, July 2-3, 2003 (Invited Speaker).
- VIII Viennese Workshop on Optimal Control, Dynamic Games and Non-linear Dynamics, Vienna University of Technology and University of Vienna, Vienna, Austria, May 14-16, 2003.
- CLIMNEG Workshop on International Environmental Agreements, K.U. Leuven-Center for Economic Studies – Energy, Transport and Environment, Leuven, Belgium, March 14, 2003 (Invited Speaker).
- Seminar on Environmental and Resource Economics, University of Girona, 1997, 1999, 2001.
- Annual Congress of the Association of Southern European Economic Theorists, Lisbon, Portugal, 2-3 November, 2000 (Invited Speaker).

- Symposium on Water Resource Management – Efficiency, Equity and Policy, University of Cyprus and University College London, Nicosia, Cyprus, 22-24 September, 2000.
- Spanish Workshop of Environmental and Resource Economics, Institute of Public Economics, University of Basque Country, January 23-24, 1998. (Invited Speaker).
- World Congress of the Econometric Society 1995.
- Summer Sea University, Water Resource Management and Economics Course, Murcia, Spain, September 25-29, 1995 (Invited Speaker).
- VI Symposium of Industrial Economy, Madrid, Spain, September 27-28, 1990.
- I Congress of Economy of Valencian Country, University of Valencia, Valencia, Spain, December 1984.

Seminar Presentations

- Institute of Economics, School of Business, Economics and Social Sciences, University of Graz, March 12, 2024.
- Dynamic Games and Applications Webinar, GERAD, University of Montreal, February 9, 2023.
- AERNA – CE3 Durham – UAM webinar, November 30, 2022.
- Department of Economic Analysis: Economic Theory and Economic History, Autonomous University of Madrid, March 4, 2020.
- Department of Quantitative Methods for Economics and Business, University of Murcia, May 10, 2019.
- GERAD (Groupe d'Études et de Recherche en Analyse des Décisions), Montreal, June 15, 2016.
- Department of Economic Theory and History, University of Malaga, March 6, 2015.
- Mathematics Institute, University of Valladolid, November 27, 2014.
- *Palais Brongniart*, Climate Change Chair, Paris, June 5, 2014.
- CER-ETH Center of Economic Research at ETH Zurich, Switzerland, November 21, 2011.
- Department of Economics, *Pablo de Olavide* University, Sevilla, Spain, April 9, 2007.
- *Complutense* Institute of Economic Analysis, *Complutense* University of Madrid, Spain, June 20, 2003.
- Department of Economics and CSERGE, University College of London, U.K., November 15, 2001.
- Department of Economic Analysis, University of Santiago de Compostela, Spain, May 23, 1997.
- Economics Department, *Universitat Jaume I*, Spain, March 20, 1997.
- Applied Economics Department, University of Valladolid, Spain, June 13, 1996.

- Department of Economics, Public University of Navarre, Spain, May 22, 1996.
- Department of Economics, *Universitat Jaume I*, Spain, November 28, 1995.
- Department of Economic Analysis, University of Basque Country, November 10, 1995.
- Department of Economic Analysis, University of Saragossa, January 18, 1991.

Conference Organization Activities

Member of the Scientific Committee

- Chairman, Congress of the Spanish Association for Energy Economics 2013.
- Conference of the Spanish-Portuguese Association of Environmental and Resource Economics 2004, 2012, 2018
- Annual Conference of the European Association of Environmental and Resource Economists 2003.
- Seminar on Environmental and Resource Economics, University of Girona, Girona, Spain 1999, 2001.

Member of the Program Committee

- Annual Conference of the European Association of Environmental and Resource Economists 2000, 2001, 2005, 2007, 2008, 2009, 2011, 2012, 2015, 2016, 2019, 2020, 2021, 2022, 2023, 2024, 2025.
- Conference of the Spanish-Portuguese Association of Environmental and Resource Economics 2006, 2008, 2010, 2014, 2018, 2024.
- Symposium of the Spanish Economic Association 2021.
- World Congress of Environmental and Resource Economists 2006, 2010, 2014, 2018.
- Congress of the Spanish Association for Energy Economics 2013 (Chairman), 2014.
- Spanish National Congress of Economics on Economic Development and Environment, Seville, Spain, December 9-11, 1992.

Member of the Local Committee

- Chairman of the Organizing Committee of the Third AERNA Workshop on Game Theory and the Environment, Valencia, September 2-3, 2019.
- VIII Congress of the Spanish Association for Energy Economics, Valencia, Spain, January 17-18, 2013.
- XXXIV Symposium of the Spanish Economic Association, Valencia, Spain, December 10-12, 2009.

Refereeing and Professional Activities

- Referee of Research Projects for the *Spanish National Agency of Evaluation and Prospective*, the University of Basque Country, the BBVA Foundation, the Spanish Ministry of Education and Science, the Social Sciences and Humanities Research Council of Canada and the Research Council of the KU Leuven, Belgium. Referee for the Valencian Institute of Economic Research.

- External referee of PhD Dissertations for the University of Girona (2018).
- Member of the Selection Committee of National Program of Legal, Economic and Social Sciences from the National Program of Technological Innovation, Development and Scientific Research 2004-2007. 2005 Call.
- Member of the Scientific-technical Evaluation Committee of the Spanish State Agency of Research for Economics Area for evaluating the applications to the 2018 and 2020 Calls of Research Challenges and Knowledge Generation Plan.
- Referee of Research Projects (3) for the Research State Agency, Ministry of Science, Innovation and Universities. 2023 Call of Projects of Knowledge Generation in the framework of the State Plan of Scientific, Technic Research and Innovation 2021-2023.
- Referee of Research Projects (1) for the Research State Agency, Ministry of Science, Innovation and Universities. 2024 Call of Projects of Knowledge Generation in the framework of the State Plan of Scientific, Technic Research and Innovation 2024-2027.
- External referee for promotion to Professor Band 2 in the Department of Economics at Durham University, UK. External referee for Associate Professor tenure for the Department of Economics, University of Girona, Spain; Department of Economics, *Universidade Nova de Lisboa*, Portugal; Department of Foundations of Economic Analysis I, University of Basque Country, Spain; Department of Economics, *Pablo de Olavide* University, Spain and by drawing lots for the Department of Economic Analysis, *Complutense* University of Madrid; Department of Economic Analysis, University of Saragossa and Department of Economic Analysis, University of Malaga. External member of the jury in the "Provas de Agregação", Nova School of Business and Economics, *Universidade Nova de Lisboa*.
- Reviewer for Springer Publisher of a chapter from the book *Handbook of Dynamic Game Theory* edited by Tamer Basar and Georges Zaccour. May 2016. Reviewer for Springer Publisher of a chapter from the volume 14 of the book series *Annals of the International Society of Dynamic Games* edited by Frank Thuijsman and Florian Wagener. December 2016. Reviewer for Springer Publisher of a chapter from the volume 18 of the book series *Annals of the International Society of Dynamic Games* edited by Guiomar Martín-Herrán, Arne Traulsen and Florian Wagener. April 2025.
- Referee for the Spanish journals: *Economía Agraria y Recursos Naturales* (2), *Hacienda Pública Española/Review of Public Economics* (3), *Investigaciones Económicas* (7), *Revista de Economía Aplicada* (7) and *Revista Española de Economía/Spanish Economic Review* (10).¹
- Referee for the international journals: *American Journal of Agricultural Economics* (1), *Automatica* (2), *BE Journal of Economic Analysis and Policy* (2), *Canadian Journal of Economics* (2), *Dynamic Games and Applications* (11), *Econometrica* (1), *Economic Inquiry* (2), *Economic Modelling* (1), *Economics Bulletin* (1), *Economics Letters* (1), *Energy Economics* (3), *Energy Journal* (1), *Environment and Development Economics* (5), *Environmental and Resource Economics* (15), *Environmental Modeling & Assessment* (1), *European Economic Review* (1), *European Journal of Operational Research* (4), *Games and Economic Behavior* (3), *International Economic Review* (1), *International Environmental Agreements: Politics, Law and Economics* (1), *International Transactions in Operational Research* (1), *Journal of Economic Behavior & Organization* (2), *Journal of Economic Dynamics and Control* (3), *Journal of Economic Surveys* (1), *Journal of Economic Theory* (1), *Journal of Environmental Economics and Management* (24), *Journal of Environmental Management* (1), *Journal of Optimization Theory and Applications* (1), *Journal of Public Economic Theory* (1), *Journal of Public*

¹ Between parenthesis the number of reports written for the journal. It does not correspond necessarily with the number of papers.

Economics (5), *Journal of the Association of Environmental and Resource Economists* (3), *Journal of the Operational Research Society* (1), *Optimal Control Applications and Methods* (1), *Oxford Economic Papers* (4), *Resource and Energy Economics* (16), *Review of Economic Studies* (1), *Scandinavian Journal of Economics* (1), *Southern Economic Journal* (1), *Strategic Behavior and the Environment* (3), *Studies in Nonlinear Dynamics & Econometrics* (1) and *Water Resources Research* (3).

- Prize to the 2018 Best Referees awarded by the Editorial Council of Hacienda Pública Española/Review of Public Economics.
- Associate Editor of the Spanish journal *Economía Agraria y Recursos Naturales* (*Agricultural Economics and Natural Resources*) since October, 2003 until January 2015.
- Member of the Editorial Board of the journal *Environmental Modeling & Assessment* since November 2013 until July 2019.
- Member of the Editorial Board of the journal *Environment and Development Economics* since June 2022.
- Member of the Spanish-Portuguese Association of Environmental and Resource Economics, Spanish Economic Association, European Economic Association, European Association of Environmental and Resource Economists, Association of Environmental and Resource Economists and American Economic Association.
- Second Vice-President of the Spanish-Portuguese Association of Environmental and Resource Economics (24-05-02/23-05-05). Incoming President (01-07-17/04-09-18). President (05-09-18/04-09-20).
- Member of the European Association of Environmental and Resource Economists Council (2006-2009). Vice-President (2008-2009). Country representative 2005-08 and 2018-19.
- Chairman of the Nominating Committee for the European Association of Environmental and Resource Economists Outstanding Awards for 2009 and 2011.
- Member of the Nominating Committee for the 2011 elections of the European Association of Environmental and Resource Economists.
- Member of the Nominating Committee for the 2011, 2015, 2022 and 2024 elections of the Spanish-Portuguese Association of Environmental and Natural Resource Economics.
- Chairman of the Nominating Committee for the European Association of Environmental and Resource Economists (EAERE) Fellows Programme 2020 appointed by the Board of EAERE Country Representatives.
- Chairman of the Selection Committee for the Spanish-Portuguese Association of Environmental and Natural Resource Economics (AERNA) Best Publication Award 2019.
- Member of the Jury for the Young Scholar Best Paper Award presented at the 20th International Symposium on Dynamic Games and Applications, July 9-12, 2024, Valladolid.
- National Prize Lucas Mallada of Economics and Environment 2009 awarded by the Spanish Ministry of Environment.

Student Advising

- School Coordinator of the European Summer School in Resource and Environmental Economics on Climate Change Negotiations, Venice, 4-10 July, 2010. The School is organized by the European Association of Environmental and Resource Economics, the Fondazione Eni Enrico Mattei and the Venice International University with the partnership of the International Center for Climate Governance.

Ph. D. Dissertation Advisor

- Abeer El-Sayed Abd El-Mottaleb (2013), "Economic analysis of the international cooperation to face global environmental problems", Ph. D. Program in Industrial Economics, University of Valencia. Main advisor.
- Juan C. Císcar (2002), "Prospective and game-based analysis of regional climate policies", University of Valencia, Tutor.
- Begoña Casino (2001), "Decentralised versus efficient management of common property natural resources. A differential game approach", University of Valencia. Main advisor.

Member of Ph. D. Dissertation Committees

- Mario Martínez Fernández (2025), "FDI Decisions in Imperfectly Competitive Markets, Green R&D with Spillovers and Host-Country Welfare." Universitat de València.
- Carles Mañó-Cabello (2023), "Essays on Dynamic Games, Sustainable Endogenous Growth and Regime Shifts." Universitat de Barcelona.
- Françeska Tomori (2021), "Environmental Policies in International Markets." Universitat Rovira I Virgili.
- Esther Estruch Bosch (2019), "Protecting Biodiversity on Farmland: Which Type of Agri-Environmental Measure Does It Better?" University of Lleida.
- Samar Garrab (2019), "Information Structures and International Environmental Agreements." HEC Montreal, University of Montreal (by Skype).
- Jorge Marco Renau (2018), "Essays on Social Networks and Cooperation: The Use of Natural Resources." University of Girona.
- Nahid Masoudi (2013), "Essays on Economics of Pollution Control." Ph. D. Program in Administration, HEC Montreal, Canada.
- Esteban Gracia, Encarna (2010), "Water as a common pool resource: Collective action in groundwater management and nonpoint pollution abatement." University of Zaragoza.
- Almudí Higuera, Isabel (2008), "Preference change and its role in renewable resource use." University of Zaragoza.
- Tobarra González, Miguel A. (2008), "Water management under asymmetric information, rationing and uncertainty." Polytechnic University of Murcia.
- Nuria Osés (2004), "Essays on common property resources: Preservation and social interaction." Public University of Navarra.
- Raúl Prellezo (2001), "Regulation of fisheries: Problems of technology and distribution." University of Basque Country.

- Eva Iglesias (2001), "Sustainable management and economics of groundwater: The *Mancha Oriental* aquifer." Polytechnic University of Madrid.
- Catarina Roseta Palma (2000), "Essays on natural resource economics." *Universidade Nova de Lisboa*, Portugal.
- María P. Martínez (1999), "Economic growth, technological change and environmental quality." University of Murcia, Spain.
- Delfina Soria (1998), "Essays on repentant and disappointment theory." University of Valencia.
- Marta Escapa (1996), "International environmental agreements: An approach to the greenhouse effect case." University of Basque Country.
- Salvador del Saz (1996), "The demand of amenity services of natural spaces: Application of contingent valuation method to the Natural Park of *Albufera*." Universidad de Valencia.

Master Dissertation Advisor

- Sallet, Caro (2024), "The Influence of Competition on Innovation in Green Technology", University of Valencia. University of Valencia.
- Ranocchia, Claudia (2022), "Porter Hypothesis vs Pollution Haven Hypothesis: Can an Emission Tax Avoid the Pollution Haven Hypothesis?" University of Valencia.
- Vicente Carrión, Iván (2019), "Cournot Oligopoly and Environmental Policies: Tax, Subsidy and Feed-in Subsidy", University of Valencia.
- Borrero Ridaura, Miguel (2019), "Self-enforcing International Environmental Agreements", University of Valencia.
- García Alaminos, Ángela (2018), "Environmental Policy Strategies and Production Decisions in a Bi-Plant Monopoly: Taxes versus Subsidies", University of Valencia.
- Ferrer Lázaro, Daniel (2017), "Incentives to Corruption: A Policy Game of Environmental Regulation", University of Valencia.
- Centelles Moliner, Ruth (2015), "Emissions Standards versus Performance Standards in the Regulation of a Polluting Monopoly", University of Valencia.
- Miao, Lixiang (2013), "The Strategic Use of Innovation to Influence Environmental Taxation", University of Valencia. Co-Advisor: Rafael Moner.
- Abeer El-Sayed (2009), "The Effect of Investment in R&D on the Participation in International Environmental Agreements", University of Valencia.
- Cristina Fuentes (2004), "An analysis of international environmental agreement stability", University of Valencia.
- Alfonso Cuenca (2001), "Global warming, option value and precautionary policies", University of Valencia.
- Adrià Girbés (2000), "Endogenous growth models, sustainability and environmental policies", University of Valencia.
- María J. Rivilla (2000), "Validation of contingent valuation method in the valuation of environmental changes", University of Valencia.

- Aznar, Juana (1995), "Environmental damages and economic growth", University of Valencia.
- Escriche, Luisa (1995), "Pigovian taxes and strategic behaviour: The inter-temporal properties of a carbon tax", University of Valencia.

Committee Work

University of Valencia

- Member of the Government Board of the Economics Faculty. Academic years 1984-85, 1985-86, 1986-1987, 1987-1988, 1988-1990 and 1990-1991.
- Member of the Board of Directors of the Department of Economic Analysis. Academic years 1987-1988, 1997-1998 and 1998-1999.
- Teaching Supervisor of the Department of Economic Analysis. Academic year 1997-1998.
- Director of the Graduate Program on Economics of the Department of Economic Analysis. Academic years 1998-1999, 2000-2001, 2001-2002 and 2002-2003.
- Member of the Master Diploma Committee of the Department of Economic Analysis. Academic year 2005-06, 2006-07 and 2007-08.
- Member of the Committee for the Elaboration of the Degree in Economics at the University of Valencia. The proposal was approved by the ANECA the 1st of October, 2009.
- Chairman of the Master Thesis Committee for the Master in Industrial Economics. Academic years 2009-10 and 2010-11.
- Chairman of the Recruitment Committee of the Department of Economic Analysis. Academic year 2010-11.
- Member of the interviewer team of the Department of Economic Analysis in the job market of the Symposium of the Spanish Economic Association hold in Madrid and organized by the Autonomous University of Madrid, 16-18 December 2010.
- Member of the interviewer team of the Department of Economic Analysis in the job market of the Symposium of the Spanish Economic Association hold in the Economics Faculty of the University of Málaga, 14-17 December, 2011.
- Head of the Department of Economic Analysis: May 2012 – May 2015.
- Member of the Master Thesis Committee for the Master in Economics. Academic year 2015-16, 2017-18, 2022-23 and 2023-24.