

# Ana Espinola – Arredondo

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Washington State University  
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## EDUCATION

Ph.D. in Economics, University of Pittsburgh, 2008.  
M.Sc. in Economics, University of Barcelona, Spain, June 2002.  
B.S. Industrial Engineering with Honors, University of Valparaiso, Chile, 1999.  
B.A. Business Administration with Honors, University of Valparaiso, Chile, 1999.

## RESEARCH INTERESTS

Environmental Economics, Game Theory and Industrial Organization.

## POSITIONS

Professor, School of Economic Sciences, Washington State University, August 2020-  
Associate Director, School of Economic Sciences, Washington State University, August 2019-  
Visitor, University of Barcelona, School of Economics. January – May 2017.  
Associate Professor, School of Economic Sciences, Washington State University, August 2014-2020  
Assistant Professor, School of Economic Sciences, Washington State University, August 2009-2014  
Visitor, University of California, Berkeley, April 2010.  
Visiting Professor, University of Granada, Spain, Summer 2009.  
Postdoctoral Research Associate, School of Economic Sciences, WSU, 2008-2009.  
Researcher, Barcelona Economics Institute (IEB), Spain, 2001-2002.

## EDITORIAL POSITIONS

Co-Editor-in-chief International Review of Environmental and Resource Economics, May 2022-  
Co-Editor, *Environmental and Resource Economics (ERE)*, February 2021-  
Co-Editor, *Economic Inquiry*, September 2018-  
Editorial Board, *PLOS ONE*, January 2019-2022.  
Guest Editor, *Games (MDPI open access journal)*, January-May 2020

## ACADEMIC AWARDS

- 2017-18 Fulbright U.S. Scholar Grant.
- The Sylvia Lane Mentor Fellowship. AAEA Foundation, 2010
- Second Place in Research Medal Award of the Global Development Network (sponsored by International Development Research Center, Canada (IDRC) and the World Bank) with the paper “Free-riding and Cooperation in Environmental Games.” Kuwait, February 2009.
- Nominated Outstanding Mentor, Women and Leadership Forum, WSU, 2009.
- Junta de Andalucía Research Fellowship, Spain. Summer 2009.
- Arts & Sciences Research Fellowship, University of Pittsburgh, Summer and Fall 2007.

## PUBLICATIONS

1. Chelsea, P., Espinola-Arredondo, A. and M. Moyer. 2022. Cooperation and Compensation to Mitigate Fungicide Resistance. Forthcoming in *American Journal of Enology and Viticulture*.
2. Choi, P., Espinola-Arredondo, A. and F. Munoz-Garcia. Environmental policy helping antitrust decisions: socially excessive and insufficient merger approvals. *Resource and Energy Economics*. 2022, 67, 101267.
3. Strandholm, J., A. Espinola-Arredondo and F. Munoz-Garcia. Pollution Abatement with Disruptive R&D Investment. *Resource and Energy Economics*. 2021, 66, 101258.
4. Strandholm, J., A. Espinola-Arredondo and F. Munoz-Garcia. 2022. Green Alliances: Are They Beneficial when Regulated Firms are Asymmetric? *Journal of Industry, Competition and Trade*. <https://doi.org/10.1007/s10842-022-00384-w>
5. Espinola-Arredondo, A., E. Stathopoulou and F. Munoz-Garcia. Regulators and Environmental Groups: Better Together or Apart? *Environment and Development Economics*. 2021, 27(1), pp. 40-66.
6. Pardini, C. and A. Espinola-Arredondo. Violence, Coercion and Settler Colonialism. *Journal of Theoretical Politics*. 2021, 33(2), pp. 236-273.
7. Garrido, D., Espinola-Arredondo and F. Munoz-Garcia. Can Mandatory Certification Promote Greenwashing? A Signaling Approach. *Journal of Public Economic Theory*. 2020, 22(6), pp. 1801-1851.
8. Strandholm, J. and A. Espinola-Arredondo. Investment in Green Technology and Entry Deterrence. *The B.E. Journal of Economic Analysis and Policy*. 2020, 20 (2), 20180355.
9. Espinola-Arredondo, A., F. Munoz-Garcia and A. Jung. Organic Mergers: When are they welfare improving? *Journal of Industry, Competition and Trade*. 2020, 20, 59-91.
10. Espinola-Arredondo, A., F. Munoz-Garcia and I. Duah. Anticipatory Effects of Taxation in the Commons: When Do Taxes Work, and When Do They Fail? *Ecological Economics*. 2019, 166, 106433.
11. Bayham, J., F. Munoz-Garcia and A. Espinola-Arredondo. International Coordination of Environmental Policies: Is it Always Worth the Effort? *Environment and Development Economics*. 2019, 24(3), pp. 294-316.
12. Espinola-Arredondo, A., F. Munoz-Garcia and B. Liu. Strategic Emission Fees: Using Green Technology to Deter Entry. *Journal of Industry, Competition and Trade*. 2019, 19, pp. 313-349.
13. Choi, P., Espinola-Arredondo, A. and F. Munoz-Garcia. Conservation Procurement Auctions with Bidirectional Externalities. *Journal of Environmental Economics and Management*. 2018, 92, pp. 559-579.
14. Strandholm, J., A. Espinola-Arredondo and F. Munoz-Garcia. Regulation, Free-Riding Incentives, and R&D investment with Spillover. *Resource and Energy Economics*. 2018, 53, pp. 133-146.
15. Espinola-Arredondo, A., F. Munoz-Garcia and P. Tantihkarnchana. Information Transmission during the Trial: The Role of Punitive Damages and Legal Costs. *Journal of Public Economic Theory*. 2018, 20(2), pp. 136-155.
16. Zaikin, A., Espinola-Arredondo, A. and A. Prera. Water Allocation Strategies: Experimental Evidence from Uzbekistan. *Journal of Water Resource and Protection*. 2018, 10, pp. 20-40.

17. Espinola-Arredondo, A. and F. Munoz-Garcia. Profit-Enhancing Environmental Policy: Uninformed Regulation in an Entry-Deterrence Model. *Journal of Regulatory Economics*. 2016, 50(2), pp. 146-163.
18. Tongzhe Li, Espinola-Arredondo, A. and Jill McCluskey. Promoting Residential Recycling: An Alternative Policy Based on a Recycling Reward System. *Games*. 2016, 7(3), pp. 1-18.
19. Espinola-Arredondo, A. and F. Munoz-Garcia. An Excessive Development of Green Products? *Economics of Governance*. 2016, 17(2), pp. 101-129.
20. Espinola-Arredondo, A. and F. Munoz-Garcia. Can Poorly Informed Regulators Hinder Competition? *Environmental and Resource Economics*. 2015, 61(3), pp. 433-461.
21. Espinola-Arredondo, A. and F. Munoz-Garcia. Why do Firms Oppose Entry-Detering Regulation? Environmental Regulation and Entry Deterrence. *Environment and Development Economics*. 2015, 20(2), pp.141-160.
22. Espinola-Arredondo, A. and F. Munoz-Garcia. The Signaling Role of Subsidies. *The B.E. Journal of Economic Analysis and Policy*. 2015, 15(1), pp. 157-178.
23. Espinola-Arredondo, A., Munoz-Garcia, F. and J. Bayham. The Entry-Detering Effects of Inflexible Regulation. *Canadian Journal of Economics*, 2014, 47(1), pp. 298-324.
24. Espinola-Arredondo, A. and F. Munoz-Garcia. Asymmetric Information May Protect the Commons: The Welfare Benefits of Uninformed Regulators. *Economics Letters*, 2013, 121(3), pp. 463-467.
25. Espinola-Arredondo, A. and F. Munoz-Garcia. Don't Forget to Protect Abundant Resources. *Strategic Behavior and the Environment*, 2013, 3(4), pp. 251-278.
26. Espinola-Arredondo, A. and F. Munoz-Garcia. When does Environmental Regulation Facilitate Entry-Detering Practices? *Journal of Environmental Economics and Management*, 2013, 65(1), pp. 133-152.
27. Espinola-Arredondo, A. and F. Munoz-Garcia. Uncovering Entry Deterrence in the Presence of Learning-by-Doing. *Journal of Industry, Competition and Trade*, 2013, 13(3), pp. 319-338.
28. Espinola-Arredondo, A. and F. Munoz-Garcia. The Entry-Detering Effects of Environmental Policy. *Review of Environment, Energy and Economics (Re3)*, January 10, 2013. Available at <http://www.feem.it/getpage.aspx?id=5259>
29. Espinola-Arredondo, A. and H. Zhao. Environmental Policy in a Linear City Model of Product Differentiation. *Environment and Development Economics*, 2012, 17(4), pp. 461-47.
30. Espinola-Arredondo, A. and F. Munoz-Garcia. When do Firms Support Environmental Agreements? *Journal of Regulatory Economics*, 2012, 41(3), pp. 380-401.
31. Espinola-Arredondo, A. and F. Munoz-Garcia. Can incomplete information lead to under-exploitation in the commons? *Journal of Environmental Economics and Management*, 2011, 62(3), pp. 402-413.
32. Espinola-Arredondo, A., E. Gal-Or and F. Munoz-Garcia. When should a firm expand its business? The Signaling Implications of Business Expansion. *International Journal of Industrial Organization*, 2011, 29(6), pp. 729-745.

33. Espinola-Arredondo, A. and F. Munoz-Garcia. Free-riding in International Environmental Agreements: A Signaling Approach to Non-Enforceable Treaties. *Journal of Theoretical Politics*, 2011, 23(1), pp. 111-134.
34. Espinola-Arredondo, A. and F. Munoz-Garcia. The Intuitive and Divinity Criterion: Interpretation and Step-by-Step Examples. *Journal of Industrial Organization Education*, 2010, 5(1), Article 7.
35. Espinola-Arredondo, A. Free-riding and cooperation in environmental games. *Journal of Public Economic Theory*, 2009, 11(1), pp. 119-158.
36. Espinola-Arredondo, A., Yoder, J. and P. Wandschneider. Biofuel policy for the pursuit of multiple goals: The case of Washington State. *Western Economics Forum*, 2009, 8 (1), pp. 1-9.
37. Espinola-Arredondo, A. Green Auctions: a biodiversity study of mechanism design with externalities, *Ecological Economics*, 2008, 67(2), pp. 175-183.

### **BOOKS AND BOOK CHAPTERS**

1. Espinola-Arredondo, A. and F. Munoz-Garcia. “Common Pool Resources: Strategic Behavior, Inefficiencies, and Incomplete Information.” Cambridge University Press. October 2021.
2. Espinola-Arredondo, A. and F. Munoz-Garcia. “Intermediate Economic Theory: Tools and Step-by-Step Examples.” The MIT Press, November 2020.
3. Dunaway, E., Strandholm, J., Espinola-Arredondo, A. and F. Munoz-Garcia. “Practice Exercises for Intermediate Economic Theory.” The MIT Press, November 2020.
4. Espinola-Arredondo, A. and F. Munoz-Garcia. Editors of the volume dedicated to “*Game Theory*,” in the WSCP reference of natural resources and environmental policy in the era of global change, World Scientific Publishing Company (WSPC)/Imperial College Press (IPC). October 2016.
5. Espinola-Arredondo, A. and F. Munoz-Garcia “Environmental Negotiations under Uncertainty,” in the *Analyzing Global Environmental Issues: Theoretical and Experimental Applications and their Policy Implications*, Ariel Dinar and Amnon Rapoport, eds. Routledge. February 14th, 2013, pp. 53-68.
6. Munoz-Garcia, F. and A. Espinola-Arredondo. “The Role of Information in the Tragedy of the Commons,” in the *Analyzing Global Environmental Issues: Theoretical and Experimental Applications and their Policy Implications*, Ariel Dinar and Amnon Rapoport, eds. Routledge. February 14th, 2013, pp. 29-52.
7. Instructor’s Manual to Accompany *Environmental and Natural Resource Economics*, 8th edition. (Tom Tietenberg and Lynne Lewis), Prentice Hall, 2009.

### **RESEARCH PAPERS**

1. Fungicide Resistance and Misinformation: A Game Theoretic Approach. (with Chelsea Pardini)
2. Signaling under Bilateral Uncertainty: Do Green Consumers Lead to More Greenwashing? (with Dolores Garrido and F. Munoz-Garcia)
3. Optimal Patent Lengths in Polluting Industries (with F. Munoz-Garcia, Park-Sing Choi and Eugenio Diaz-Farina)

4. Don't Leave the Regulator Alone in the Commons: How Fishing Cooperatives Can Help Ameliorate Inefficiencies (with F. Munoz-Garcia and Juan Rosas)
5. Strategic Merger Approvals Under Incomplete Information (with F. Munoz-Garcia and Kiriti Kanjilal)

## RESEARCH GRANTS

- Moyer, M. (PI), W. Mahaffee, A. **Espinola-Arredondo** (Co-PI), T. Miles, R. Naegele, R. Stoll, P. Brannen, M. Cooper, M. Lewis- Ivey, I. Stergiopoulos. "Fungicide Resistance Assessment, Mitigation and Extension Network for Wine, Table and Raisin Grapes (FRAME)." The U.S. Department of Agriculture's National Institute of Food and Agriculture. \$2.4 million. September 2018.
- Yoder, J., C. R. Shumway, P. Wandschneider, D. Young, H. Chouinard, A. **Espinola-Arredondo**, S. Galinato, C. Frear, D. Holland, E. Jessup, J. LaFrance, K. Lyons, M. McCullough, K. Painter, L. Stodick. Biofuel Economics and Policy for Washington State. A Report to the Washington State Legislature and the Washington State Governor's Office. December 2008.
- The Sylvia Lane Mentorship Fund. (\$2,500)

## TEACHING EXPERIENCE

### – *Washington State University:*

- Microeconomic Theory I (Graduate Level), Fall 2021, 2020, 2019, 2018, 2017.
- Environmental Economics (Graduate Level), Spring 2020, 2019, 2015; Fall 2021, 2017, 2016, 2015, 2013, 2012, 2011, 2010 and 2009.
- Master's Microeconomic Analysis II, Spring 2018, Fall 2018, 2016, 2015.
- Natural Resource Economics (Undergraduate Level), Fall 2013, 2012, 2011, 2010, 2009 and 2008.
- Industrial Organization (Undergraduate Level), Spring 2016, 2015, 2014, 2013, 2012 and 2011.
- Game Theory (Undergraduate Level) Spring 2021
- Economics Capstone (Undergraduate Level), Spring 2010.
- *University of Pittsburgh.* Introduction to Environmental Economics, Summer 2006.
- *University of Granada – Spain.* Game Theory (Graduate Level), Summer 2009.
- *University of Loyola (Seville) – Spain.* Applications of Game Theory (Undergraduate Level), Summer 2021.

## STUDENTS ADVISED

### as Ph.D. Committee Member (role, first placement):

- Nawwaf Aljulaifi (advisor)
- Imisi Aiyetan (co-advisor)
- Tiana Randriamaro (member)
- Chelsea Pardini 2021 (advisor, Post-Doctoral Researcher, NYU (Institute for Policy Integrity))
- Anika Islam 2020 (advisor, Economist Washington DC)
- Dolores Garrido 2020 (co-advisor, Visiting Assistant Professor at Union College)
- Youngran Choi 2020 (member, Assistant Professor, Embry–Riddle Aeronautical University)
- Kiana Yektansani 2020 (co-advisor, Lecturer at University of Illinois at Chicago)
- Aerin Jung 2019 (co-advisor, National Institute of Agricultural Science, Korea)

- Paksing Choi 2018 (co-advisor, Assistant Professor, National Central University, Taiwan)
- Isaac Duah 2018 (member, Senior Regulatory Specialist, Commonwealth Edison, Chicago, IL)
- Kiriti Kanjilal 2018 (member, Indraprastha Institute of Information Technology, Delhi)
- Alisher Mamadzhanov 2017 (co-advisor, United Nations)
- John Strandholm 2017 (advisor, Assistant Professor, University of South Caroline Upstate)
- Ziyang Yang 2017 (member, Southwestern University of Finance and Economics)
- Pitchayaporn Tantihkarnchana 2016 (member, Lecturer, Penn State)
- Gregory Astill 2015 (member, Researcher, USDA)
- Tongzhe Li 2015 (co-advisor, Post-Doctoral Researcher, University of Delaware)
- Boying Liu 2015 (co-advisor, JPMorgan Chase & Co)
- Jude Bayham 2013 (member, Post-Doctoral Fellow, Yale University School of Forestry)
- Jingze Jiang 2013 (member, Assistant Professor, Edinboro University)
- Aysin Tekindor 2013 (member, Visiting Assistant Professor, Cal State Long Beach)
- Tricia Nusius 2013 (co-advisor, Assistant Director, Royal Malaysian Customs Agency)
- Huan Zhao 2012 (member, Economic Analyst, Washington State Dept. of Labor & Industries)
- Andrey Zaikin 2012 (co-advisor, Analyst, T-Mobile)

as M.A. Committee Member:

- Nicole Rouleau 2020 (member)
- Ramazan Acar 2020 (member)
- Yudum Turgut 2020 (member)
- Miles Love 2020 (member)
- John Brunolli 2020 (advisor)
- Hui Luo 2020 (advisor)
- Joe Sandow 2019 (member)
- Rokas Piliusenko 2019 (member)
- Devin Gray 2018 (advisor)
- Tyler Laferriere 2017 (member)
- Wai Yan Siu 2016 (advisor)
- Shuhong Zhang 2016 (member)
- Trang Tran 2015 (advisor)
- Fuad Alagsam 2011 (advisor).
- Gulnara Zaynutdinova 2010 (member)

as Undergraduate Committee Member:

- Ellen Robertson 2014 (member)

**Referee Service:** International Economic Review; Review of Industrial Organization; Canadian Journal of Economics; Journal of Environmental Economics and Management; The B.E. Journal of Economic Analysis & Policy; Journal of Policy Analysis and Management; Ecological Economics; Environmental and Resource Economics; Environment and Development Economics; Resource and Energy Economics; Energy Economics; Energy Journal; Journal of Public Economic Theory; International Review of Economics and Finance; Journal of the Spanish Economic Association; Ecology and Society; Mathematical Methods of Operations Research; Journal of Conflict Resolution; Climate Policy; Economics of Governance; Regional Science and Urban Economics; Social Problems; Journal of Industry, Competition and Trade; Economic Inquiry; Water Research; Strategic Behavior and the Environment; PLOS ONE; Kyklos; Economics Bulletin; Reviews in Fish Biology

and Fisheries; Portuguese Economic Journal; Agricultural and Resource Economics Review; WSU Extension; Revista Economía & Región.

**Reviewer:** (i) Economics and the Environment, Eban S. Goodstein, 6th Edition and ECON306 (Industrial Organization) for the Saylor Foundation. (ii) Global Development Awards 2017, in the category of “Skilling for Agriculture;” (iii) proposals for the 2019 Association for Public Policy Analysis & Management (APPAM) Fall Research Conference on November 7-9, 2019 in Denver, Colorado; (iv) proposals for the 2020 Association for Public Policy Analysis & Management (APPAM) Fall Research Conference; (v) Nazarbayev University Research Review - Summer 2020.

**CSWEP CeMENT Workshop:** Mentor for the CeMENT 2022 Doctoral Workshop, January 10-13, 2022.

**USDA’s NIFA/AFRI program:** Member of the panel for the Economics, Markets and Trade, and Environment foundational grant programs, September 2013, Washington DC.

**Scientific Committee.** Latin America and Caribbean Environmental Economics Program (LACEEP), 2010.

**Provost Leadership Academy- WSU.** Participant during September 2017- April 2018.

**Washington State University, SES.** Qualifying Examination Committee – Microeconomics, 2018. SES Communication, 2017; Economics Club Advisor, August 2009-2014; Director’s Advisory Committee, 2013; Graduate Studies Committee, August 2012-2016; Macro Search Committee, 2012 and 2016.

**AEA-CSWEP.** Liaison for Washington State University in the standing committee of the American Economic Association, the Committee on the Status of Women in the Economics Profession (CSWEP), August 2015-present.

**Viking Vanguard at Puyallup High School.** Interview about the impact of the Keystone XL pipeline in North Dakota to the state of Washington. December 5, 2016.

## SELECTED PRESENTATIONS

- Montreal Workshop on Resource and Environmental Economics. April 9<sup>th</sup>, 2021.
- Association of Environmental and Resource Economists at the Southern Economic Association (AERE-SEA), Virtual Meeting, November 2020.
- Agricultural and Applied Economic Association (AAEA) Virtual Meeting, July 2020.
- Western Social Science Association (WSSA) Virtual Conference, June 2020.
- ASSA meeting. San Diego, CA. January 3 - 5, 2020.
- 41<sup>st</sup> Association for Public Policy Analysis & Management (APPAM) Fall Research Conference, Denver, CO. November 7 – 9, 2019.
- Second Catalan Economic Society Conference (CESC). Barcelona, Spain. May 24 – 25, 2019.
- 15<sup>th</sup> Western Economic Association International conference. Tokyo, Japan. March 21<sup>st</sup> – 24<sup>th</sup>, 2019.
- Seminar Session, School of Economic Sciences, WSU. March 1<sup>st</sup>, 2019.
- University of Montreal, HEC-Canada. GERAD. March 11<sup>th</sup>, 2019.
- 40<sup>th</sup> Association for Public Policy Analysis & Management (APPAM) Fall Research Conference, Washington, DC. November 8 – 10, 2018.
- 6<sup>th</sup> World Congress of Environmental and Resource Economists, Gothenburg. June 25-29, 2018.
- 87<sup>th</sup> Annual Conference of the Southern Economic Association. Tampa, FL. Nov.17-19, 2017.
- Workshop in Environmental and Resource Economics in Memory of Pierre Lasserre, Université du Québec à Montréal ( UQAM), Montréal, Canada, October 2017.
- 2017 AAEA Annual Meeting. Chicago, IL. July 30-August 1, 2017.

- First Catalan Economic Society Conference (CESC). Barcelona, Spain. May 26 – 27, 2017.
- University of Barcelona, School of Economics. Barcelona, Spain. April 7<sup>th</sup>, 2017.
- 12<sup>th</sup> Spanish Association for Energy Economics (AEEE). Salamanca, Spain. February 2 -3, 2017.
- Center for Environmental Research, Education, and Outreach (CEREO) seminar series, Washington State University. Pullman, WA. November 9, 2016.
- The 91st annual Western Economic Association International conference, Association of Environmental and Resource Economists session. Portland, OR. June 29-July 3, 2016.
- 13<sup>th</sup> Annual International Industrial Organization Conference, Boston, MA. April 24-26, 2015.
- 5<sup>th</sup> Workshop on Game Theory in Energy, Resources and Environment. HEC Montréal, Canada. May 26 - 27, 2014.
- University of Montana. Department of Economics, October 11<sup>th</sup>, 2013.
- The 88<sup>th</sup> annual Western Economic Association International conference. Seattle, WA. June 28- July 2, 2013.
- ASSA meeting. San Diego, CA. January 4 - 6, 2013.
- 4th Workshop on Game Theory in Energy, Resources and Environment. HEC Montréal, Canada. November 29 - 30, 2012.
- Washington State University. October 2012.
- AAEA Annual Meeting. Seattle, WA. August 12-14, 2012.
- The 10<sup>th</sup> annual International Industrial Organization Conference. The George Mason School of Law, Arlington, Virginia, March 16-18, 2012.
- 5<sup>th</sup> Conference on the Political Economy of International Organizations at Villanova University, Philadelphia, January 26–28, 2012.
- 8<sup>th</sup> Meeting on Game Theory and Practice Dedicated to Global and International Issues. University of California, Riverside, July 11-12, 2011
- AERE Summer Conference, June 9-10, 2011.
- Pontificia Universidad Católica de Chile, Chile. May 2011.
- Universidad de Concepción, Chile. May 2011.
- 9<sup>th</sup> Annual International Industrial Organization Conference, Boston, MA. April 8-10, 2011.
- ASSA meeting. Denver, CO. January 6 - 9, 2011
- 4<sup>th</sup> World Congress of Environmental and Resource Economists, Montréal. June 28 – July 2, 2010.
- 3<sup>rd</sup> Workshop on Game Theory in Energy, Resources and Environment. HEC Montréal, Canada. December 10 - 11, 2009.
- Washington State University. November 2009.
- 5<sup>th</sup> Spain, Italy, Netherlands Meeting on Game Theory, Amsterdam July 1-3, 2009.
- 17<sup>th</sup> Annual Conference of the EAERE, Amsterdam June 24-27, 2009.
- The Society of Labor Economists, Fourteenth Annual Meeting, Boston May 8-9, 2009.
- 7<sup>th</sup> International Industrial Organization Conference. Boston, April 3-5, 2009.
- Research Medal Award of the Global Development Network (sponsored by the World Bank). Kuwait, February 3-5, 2009.
- University of Chile, Centro de Economía Aplicada. December 2008.
- 2<sup>nd</sup> Workshop on Game Theory in Energy, Resources and Environment. HEC Montréal, Canada. November 20 - 21, 2008.
- Washington State University. November 2008.
- University of Navarra, Spain; University of the Balearic Islands, Spain; Cleveland State University and Washington State University. February-March, 2008.
- XXXII Simposio de Análisis Económico in Granada, Spain. December 13-15, 2007.
- CU Environmental and Resource Economics Workshop. Department of Economics, University of Colorado at Boulder. September 21-22, 2007.



- Public Economic Theory Conference (PET07). Vanderbilt University, Nashville. July 06-08, 2007.
- Spain-Italy-Netherlands Conference on Game Theory and Applications (SING3), Spain, July 2007.
- Economic Science Association World Meeting, Rome, Italy, June 2007.
- 7<sup>th</sup> Meeting on Game Theory and Practice Dedicated to Energy, Environment and Natural Resources. HEC Montréal, Canada. May 28 - 30, 2007.
- Midwest Economics Association, 71st Annual Meeting. Minnesota. March 23-25, 2007.
- Seminar in Microeconomic Theory. Department of Economics, University of Pittsburgh. Nov. 2006.
- 8<sup>th</sup> Annual BIOECON Conference on the Economic Analysis of Ecology and Biodiversity. Kings College Cambridge, University of Cambridge, UK. August 29-30, 2006.
- The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. November 12-16, 2001.

### **PROFESSIONAL MEMBERSHIP**

Association of Environmental and Resource Economists; American Economic Association; European Association of Environmental and Resource Economists; and Royal Economic Society.