

CURRICULUM VITAE

XAVIER LABANDEIRA

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Summary

I am Professor of Economics at the *University of Vigo*, Spain, and (part-time) at the *European University Institute*, Florence (Italy), where I am the Director of the *Florence School of Regulation-Climate*. I am also the Director of *Economics for Energy*, a private non-profit research center in Spain, and coordinator of *Ergon*, a European platform of researchers in the economics of energy efficiency. My teaching and research interests lay on the borderlines of Public, Energy and Environmental Economics. I have published around 25 academic papers in English, most of them in high-impact academic journals. I have also published and edited several books and book chapters, and my research has been repeatedly disseminated in international academic workshops and seminars. I have assiduously organized scientific events, also as a means to disseminate knowledge to interested parties in society. I have been project leader of around 30 research projects since 2000, mostly funded by public institutions and private firms. I have supervised 4 doctoral theses and 7 postdocs, and have been quite active in academic reviewing of papers and peers too. I have usually received good teaching evaluations by students and have coordinated a master's degree on environmental management at the University of Vigo.

PERSONAL DETAILS

Name: Xavier Labandeira

Place of birth: Vigo, Spain

Date of birth: 2 July 1967

WORK ADDRESSES

University of Vigo

Facultade de CC. Económicas, Campus As Lagoas, 36310 Vigo, Spain

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Florence School of Regulation-Climate, Via delle Fontanelle 10, 50014 S. Domenico Fiesole (FI), Italy

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Economics for Energy

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Telephone: (+34) 986 128016, Fax: (+34) 986 812504

CURRENT POSITIONS

Professor of Economics at the Department of Applied Economics, University of Vigo (Spain)

Professor (part time) at the European University Institute, Florence (Italy), and director of the Florence School of Regulation-Climate

Director of *Economics for Energy*, a private non-profit research centre on Energy Economics in Spain

Coordinator of Ergon, a European research platform on the Economics of Energy Efficiency

Director of FENOSA Chair on Energy, Economics and Sustainable Development, University of Vigo

EDUCATION

Bachelor (Licenciado) in Economics. University of Santiago (Spain), June 1990

Master Sc. in Environmental and Natural Resource Economics, Department of Economics, University College London, July 1994

European PhD in Economics, Department of Applied Economics, University of Vigo, February 1998 (Extraordinary Award).

TEACHING (see the Spanish CV for more detailed information)

1990/98: Associate Lecturer. Department of Applied Economics, University of Vigo

1998/2009: Associate Professor. Department of Applied Economics, University of Vigo

July 2009/present: Professor of Economics, Department of Applied Economics, University of Vigo

Undergraduate and graduate teaching in Public Economics, Environmental Economics and Energy Economics.

PUBLICATIONS IN ENGLISH (see the Spanish CV for papers in Spanish)

A) ARTICLES, with ISI Impact Factor, Quartile, and position in its field.

1. 'A Meta-analysis on the Price Elasticity of Energy Demand', *Energy Policy*, Vol 102 (2017), págs 549-568 (con Labeaga, J.M. y López-Otero, X.); IF2015: 3.045 (**Q1**, Environmental Studies).
2. 'Pro-environmental Households and Energy Efficiency in Spain', *Environmental and Resource Economics*, Vol 62, 2 (2016): 367-393 (with Ramos, A. and Löschel, A.); IF2015: 1.667 (**Q1**, Economics).
3. 'The Role of Information for Energy Efficiency in the Residential Sector', *Energy Economics*, Vol 52, S1 (2015): S17-S29 (with Ramos, A., Gago, A. and Linares, P.); IF2015: 2.862 (**Q1**, Economics).
4. 'Frontiers in the Economics of Energy Efficiency', *Energy Economics*, Vol 52, S1 (2015): S1-S4 (with de Miguel, C. and Löschel, A.); IF2015: 2.862 (**Q1**, Economics).
5. 'The Price of Energy Efficiency in the Spanish Tax Market', *Transport Policy*, 36 (2014): 272-282 (with Galarraga, I., Ramos, A. and Lucas, J.); IF2014: 1.492 (**Q1**, Economics).
6. 'A Panorama on Energy Taxes and Green Tax Reforms', *Hacienda Pública Española. Review of Public Economics*, 209 (2014): 145-190 (with Gago, A. and López-Otero, X.); IF2014: 0.150 (**Q4**, Economics).
7. 'Transport and Low-carbon Fuel: A Study of Public Preferences in Spain', *Energy Economics*, Vol. 40, S1 (2013): S122-S133 (with Loureiro, M. and Hanemann, M.); IF2013: 2.580 (**Q1**, Economics).
8. 'Renewable Generation and Electricity Prices: Taking Stock and New Evidence for Germany and Austria', *Energy Economics*, Vol. 40, S1 (2013): S159-S171 (with Würzburg, K. and Linares, P.); IF2013: 2.580 (**Q1**, Economics).
9. 'Estimation of Elasticity Price of Electricity with Incomplete Information', *Energy Economics*, Vol. 34, 3 (2012): 627-633 (with Labeaga, J. M. and López-Otero, X.); IF2012: 2.538 (**Q1**, Economics).

10. 'Some Economic Aspects of Energy Security', *European Research Studies*, Vol. 15 (2012): 47-64 (with Manzano, B.).
11. 'Climate Change, Energy and Social Preferences on Policies: Exploratory Evidence for Spain', *Climate Research*, Vol. 48 (2011): 343-348 (with Hanemann, M. and Loureiro, M.); IF2011: 1.994 (**Q2**, Environmental Sciences; **Q2**, Meteorology & Atmospheric Sciences).
12. 'Economics of Energy and Environmental Policies', *Energy Economics*, Vol. 33, S1 (2011): 2-3 (with de Miguel, C. and Manzano, B.); IF2011: 2.344 (**Q1**, Economics).
13. 'An Ex-post Analysis of the Effect of Renewables and Cogeneration on Spanish Electricity Prices', *Energy Economics*, Vol. 33, S1 (2011): 59-65 (with Gelabert, L. and Linares, P.); IF2011: 2.344 (**Q1**, Economics).
14. 'Energy Efficiency: Economics and Policy', *Journal of Economic Surveys*, Vol. 24 (2010): 573-592 (with Linares, P.); IF2010: 1.581 (**Q1**, Economics).
15. 'Wide and Narrow Approaches to National Climate Policies: a Case Study for Spain', *Climate Policy*, Vol. 10, 1 (2010): 51-69 (with Rodríguez, M.); IF2010: 1.630 (**Q2**, Environmental Studies; **Q1** Public Administration).
16. 'An Integrated Economic and Distributional Analysis of Energy Policies', *Energy Policy*, Vol. 37, 12 (2009): 5776-5786 (with Labeaga, J. M. and Rodríguez, M.); IF2009: 2.436 (**Q1**, Environmental Studies).
17. 'Introduction and Overview: Climate Change Policies after 2012', *Energy Journal*, Vol. 30, 2 (2009): 1-5 (with Martín, J. M.); IF2009: 1.857 (**Q1**, Economics; **Q1**, Environmental Studies).
18. 'An Integrated Approach to Simulate the Economic Impacts of Carbon Emissions Trading', *Energy Journal*, Vol. 30, 2 (2009): 217-237 (with Linares, P. and Rodríguez, M.); IF2009: 1.857 (**Q1**, Economics; **Q1**, Environmental Studies).
19. 'Specific and General Taxation of Tourism Activities. Evidence from Spain', *Tourism Management*, Vol. 30, 3 (2009): 381-392 (with Gago, A., Picos, F. and Rodríguez, M.); IF2009: 1.882 (**Q1**, Environmental Studies; **Q1**, Hospitality, Leisure, Sport & Tourism; **Q2**, Management).
20. 'Barriers to the Introduction of Market-based Instruments in Climate Policies: an Integrated Theoretical Framework', *Environmental Economics and Policy Studies*, Vol. 10 (2009): 41-68 (with Del Río, P.).
21. 'A Residential Energy Demand System for Spain', *Energy Journal*, Vol. 27, 2 (2006): 87-112 (with Labeaga, J. M. and Rodríguez, M.); IF2006: 1.038 (**Q2**, Economics; **Q2**, Environmental Studies).
22. 'Estimation and Control of Spanish Energy-Related CO₂ Emissions: an Input-Output Approach', *Energy Policy*, Vol. 30, 7 (2002): 597-611. (with Labeaga, J. M.); IF2002: 0.726.
23. 'Towards a Green Tax Reform Model', *Journal of Environmental Policy and Planning*, Vol. 2, 1 (2000): 25-37. (with Gago, A.).
24. 'Combining Input-Output and Microsimulation to Assess the Effects of Carbon Taxation on Spanish households', *Fiscal Studies*, Vol. 20, 3 (1999): 303-318. (with Labeaga, J. M.); IF2003: 0.128 (**Q4**, Economics; **Q4**, Business, Finance).
25. 'Green Tax Reform: Facts and Experiences', *Australian Tax Forum*, Vol. 14, 1 (1998): 361-379. (with Álvarez, J. C. and Gago, A.).

26. 'Market Instruments and the Control of Acid Rain Damage, Effects of a Sulphur Tax on the Spanish Electricity Generating Industry', *Energy Policy*, Vol. 24, 9 (1996): 841-854; IF1996: 0.799.

B) BOOKS AND BOOK CHAPTERS IN ENGLISH

1. 'National and Sub-National Policies and Institutions' in Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel y J.C. Minx (eds) *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge and New York (2014) (with Somanathan E., T. Sterner, T. Sugiyama, D. Chimanikire, N.K. Dubash, J. Essandoh-Yeddu, S. Fifita, L. Goulder, A. Jaffe, S. Managi, C. Mitchell, J.P. Montero, F. Teng, and T. Zyllicz).
2. 'Policy Instruments to Foster Energy Efficiency' in Ansuategi, A., Delgado, J. and Galarraga, I. (eds) *Green Energy and Efficiency. An Economic Perspective*. Springer, Heidelberg (2014) (with Markandya, A. y Ramos, A.).
3. 'Climate Change, Buildings and Energy Prices' in Fouquet, R. (ed) *Handbook on Energy and Climate Change*. Edward Elgar, Cheltenham (2013) (with Gago, A., Hanemann, M. and Ramos, A.).
4. 'Second-best Instruments for Energy and Climate Policies' en Galarraga, I., González-Eguino, M. and Markandya, A. (eds) *Handbook of Sustainable Energy*. Edward Elgar, Cheltenham (2011) (with Linares, P.).
5. *Climate Change Policies. Global Challenges and Future Prospects*. Edward Elgar, Cheltenham (2010) (with Cerdá, E.).
6. 'Introduction and Main Messages' in Cerdá, E. and Labandeira, X. (eds) *Climate Change Policies. Global Challenges and Future Prospects*. Edward Elgar, Cheltenham (2010) (with Cerdá, E.).
7. 'Discussion on From Utopia to Common Sense: the Climate Mitigation Challenge' en Cerdá, E. and Labandeira, X. (eds) *Climate Change Policies. Global Challenges and Future Prospects*. Edward Elgar, Cheltenham (2010)
8. 'Environmental Taxes in Spain: A Missed Opportunity', in Martínez-Vázquez, J. and Sanz, J.F. (eds) *Fiscal Reform in Spain: Accomplishments and Challenges*. Edward Elgar, Northampton (USA) (2007) (with Gago, A., Picos, F. and Rodríguez, M.).
9. 'Microsimulation in the analysis of Environmental Tax Reforms: an Application for Spain', in Spadaro, A. (ed) *Microsimulation as a Tool for the Evaluation of Public Policies: Methods and Applications*. Fundación BBVA, Madrid (2007) (with Labeaga, J M. and Rodríguez, M.).
10. *Economic Modelling of Climate Change and Energy Policies*. Edward Elgar, Cheltenham (2006) (with De Miguel, C. and Manzano, B.).
11. 'Introduction and Overview' in De Miguel, C., Labandeira, X. and Manzano, B. (eds) *Economic Modelling of Climate Change and Energy Policies*. Edward Elgar, Cheltenham (2006) (with De Miguel, C. and Manzano, B.).

12. 'The Effects of a Sudden CO₂ Reduction in Spain' in De Miguel, C., Labandeira, X. and Manzano, B. (eds) *Economic Modelling of Climate Change and Energy Policies*. Edward Elgar, Cheltenham (2006) (with Rodríguez, M.).
13. 'Spain: Fast Growth in CO₂ Emissions' in Collier, U. and Löfstedt, R. (eds) *Cases in Climate Change Policy*, Earthscan, London (1997).

OTHER RESEARCH ACTIVITIES

A) RECENT RESEARCH PROJECTS

1. 'Supporting the Implementation and Development of the EUETS' (LIFE15 GIC/IT/000051), funded by the European Commission through the LIFE program. September 2016-May 2018 (Project Leader, EUI).
2. 'Innovation pathways, strategies and policies for the Low-Carbon Transition in Europe' (ID730403), funded by the European Commission through the H2020 program. December 2016-November 2020 (Project Leader, EUI).
3. 'Economía de la Eficiencia Energética en los Sectores Residencial y de Transporte en España' (Economics of Energy Efficiency in the Spanish Residential and Transport Sectors), funded by the Spanish Ministry of Economy and Competitiveness. September 2014-December 2016 (Project Leader).
4. 'Pobreza Energética en España: Precios de la Electricidad y Medidas Paliativas', funded by Fundación Iberdrola within its program of grants to research in energy and the environment. January 2015-December 2015 (Project Leader).
5. 'Estudios Avanzados sobre Demanda de Electricidad' (Advanced Research on Energy Demand), funded by Fundación Iberdrola within its program of grants to research in energy and the environment 2013-2014. October 2013-September 2014 (Project Leader).
6. 'Eficiencia Energética y Comportamientos en los Hogares Españoles' (Energy Efficiency and Behavior in Spanish Households), funded by Fundación Iberdrola within its program of grants to research in energy and the environment 2013-2014. October 2013-September 2014 (Project Leader).
7. 'Desarrollos en la Imposición Energético-ambiental' (Developments in Energy-environmental Taxation), funded by Fundación Iberdrola within its program of grants to research in energy and the environment 2011-2013. October 2011-September 2013 (Project Leader).
8. 'Advanced Research in Energy and Environmental Economics', funded by Alcoa Foundation within its Initiative on Advancing Research for Actionable Solutions. January 2011-January 2014 (Project Leader).
9. 'Cambio Climático y Régimen Regulatorio Post-2012' (Climate Change and post-2012 Regulatory Regime), funded by the Spanish Ministry of Science and Innovation and ERDF. January 2010-December 2012 (Project Leader of the Consortium)
10. 'Escenarios post-2012 y Políticas contra el Cambio Climático en España' (Post-2012 Scenarios and Climate Change Policies in Spain), funded by Ministry of Science and Innovation and ERDF. January 2010-December 2012 (Project Leader).

11. 'Demanda Energética. Políticas Públicas y Adaptación' (Energy demand, Public Policies and Adaptation), funded by Consellería de Innovación e Industria, Xunta de Galicia. October 2008-October 2011 (Project Leader).
12. 'Reformas Fiscales Verdes: Estado de la Cuestión' (Green Tax Reforms: State of the Art), funded by Fundación Repsol-YPF. November 2007-November 2008 (Project Leader).

B) RECENT CONFERENCES

1. 2016: 17th Global Conference on Environmental Taxation. Groningen. Invited keynote: 'Climate Change and Instrument Mixes'.
2. 2016: VII AERNA Conference. Aveiro. Invited keynote: '25 Years of European Climate Policies'.
3. 2015: Our Common Future under Climate Change. Paris. 'Lessons from Climate Change and Energy Policy in Western Countries'.
4. 2014: 15th Global Conference on Environmental Taxation. Copenhagen. 'Constraints and Possibilities for Environmental Taxes in Spain' (with Gago, A.).
5. 2014: 2014 World Congress on Environmental and Resource Economics. Istanbul. 'Current Challenges of Emissions Trading: EU ETS'.
6. 2014: 3rd European environmental Evaluators Network Forum. Helsinki. 'Evaluating Climate Policies in Trading and Non-trading Sectors: Emissions Trading'.
7. 2014: IX Congreso de la Asociación Española para la Economía Energética. Madrid. 'Economic Crisis and Price Elasticity of Car Fuels: Evidence for Spain' (with Bakhat, M., Labeaga, J. M. and López-Otero, X.).
8. 2014: IX Congreso de la Asociación Española para la Economía Energética. Madrid. 'The Price of Energy Efficiency in the Spanish Car Market' (with Galarraga, I., Lucas, J. and Ramos, A.).
9. 2014: IX Congreso de la Asociación Española para la Economía Energética. Madrid. 'Household Energy Demand in Mexico: An Empirical Application based on Microdata' (with Bakhat, M., Labeaga, J. M. and Rosas-Flores, J.).
10. 2013: Mannheim Energy Conference 2013. Mannheim. 'Energy Demand for Heating: Short-run and Long-run' (with Hanemann, M., Labeaga, J. M. and López-Otero, X.).
11. 2013: 2013 International Energy Workshop. Paris. 'Price Effects of Energy Efficiency Labels in Spanish Automobiles' (with Galarraga, I., Lucas, J. and Ramos, A.).
12. 2013: III IEB-FEDEA Workshop on Transport Economics. Barcelona. Comment on 'Energy and Environment Challenges in the Transport Sector'.
13. 2013: 5^o Encuentro Latinoamericano de Economía de la Energía. Montevideo. 'Social Preferences for Climate Change Policies in Transport in Spain' (with Hanemann, M. and Loureiro, M.).
14. 2013: Economics for Energy Annual Workshop: Economic Challenges for Energy. Madrid. 'A New Generation of Energy Taxes and Green Tax Reforms'.
15. 2013: ENVECON 2013. London. Ponencia 'Public Preferences, Attitudes and Policies. A Hybrid Mixture Model' (with Hanemann, M. and Loureiro, M.).
16. 2013: VIII Congreso de la Asociación Española para la Economía Energética. Valencia. 'Household Environmental Attitudes and Energy Efficiency in Buildings: Evidence from Spanish Data' (with Ramos, A.).

17. 2012: 5th Atlantic Workshop on Environmental and Energy Economics. A Toxa-Spain. 'Unrevealing Public Preferences for Climate Change Policies in Spain: A Hybrid-mixture Model' (with Hanemann, M. and Loureiro, M.).
18. 2012: 12th IAEE European Energy Conference. Venice. 'Unrevealing Public Preferences for Climate Change Policies in Spain: A Hybrid-mixture Model' (with Hanemann, M. and Loureiro, M.).
19. 2012: VII Congreso de la Asociación Española para la Economía Energética. Pamplona. 'Energy Demand for Heating in Spain: An Empirical Analysis with Policy Purposes' (with Hanemann, M. and López-Otero, X.).
20. 2011: 3er Encuentro Latinoamericano de Economía de la Energía. Buenos Aires. 'Social Preferences on Climate Change Policies in Spain' (with Hanemann, M. and Loureiro, M.).
21. 2011: IESE Workshop on Energy Efficiency in Buildings and European Regulation. Barcelona. 'Energy Efficiency: Different Regulatory Velocities in Europe'.
22. 2011: VI Congreso de la Asociación Española para la Economía Energética. Barcelona. 'Social Preferences on Climate Change Policies in Spain' (with Hanemann, M. and Loureiro, M.).

C) RESEARCH STAYS

1992 and 1993: University of California, Berkeley (U.S). Social Sciences and Jurisprudence Program, School of Law. (June-December 1992 and July-September 1993).

1994, 1995, 1996 and 1997: University College of London (United Kingdom). Centre for Social and Economic Research on the Global Environment and Department of Economics. (July-December 1994, July-October 1995, June-September 1996 and March-May 1997).

1998: Tokyo University of Foreign Studies (Japan). Department of Foreign Studies. (August-September 1998).

2010: Visit to University of Bath (United Kingdom).

2012: Visits to Potsdam Institute for Climate Impact Research (Germany), ETH Zürich (Switzerland), Keio University (Tokyo) and Kyoto University.

2013: Visit to University of Oxford (United Kingdom).

2013: Visit to Arizona State University (U.S).

D) REFEREEING IN INTERNATIONAL JOURNALS

Energy Journal, since 2000

Fiscal Studies, since 2002

Environmental Economics and Policy Studies, since 2002

Environmental Modeling and Software, since 2004

Resource and Energy Economics, since 2005

Ecological Economics, since 2006

Energy Economics, since 2006

Journal of Environmental Management, since 2006

Economic Modelling, since 2007
Regional Studies, since 2007
Journal of Industrial Ecology, since 2008
Biomass and Energy, since 2008
Environmental and Resource Economics, since 2008
Energy Policy, since 2009
Tourism, since 2009
Series, since 2010
African Journal of Business Management, since 2012
Plos One (editor), since 2014
Climate Change Economics, since 2014

E) OTHER REVIEW ACTIVITIES

Reviewer of ANEP, Spanish Agency of Assessment and Prospective, in charge of evaluating research projects (since 2003).

Reviewer of the Andalusian agency in charge of evaluating research projects (2007-2011).

Member of the International Scientific Advisory Committee (ISAC) of the Basque Centre for Climate Change (BC3) (since 2010).

Member of committees to select researchers and professors at the University of the Balearic Islands, CSIC-Madrid, University of Porto and ISCTE-Lisbon)

Reviewer of publishing proposals for Edward Elgar and Routledge

Member of the jury for the IAEE Energy Journal Best Paper Award (2012)

Member of the jury for the best paper presented to the World Congress of the International Association for Energy Economics (2012).

F) RECENT SCIENTIFIC AND ORGANIZING COMMITTEES

2017: Organizer of *2017 Annual Workshop: Economic Challenges for Energy*, Economics for Energy (Madrid).

2017: Scientific Committee of the *XII Congreso de la Asociación Española para la Economía Energética* (Madrid).

2016: Organizer of *2016 Annual Conference*, Florence School of Regulation-Climate, European University Institute (Florence).

2016: Scientific Committee of the *AIEE Energy Symposium 2016* (Milano).

2016: Committee Chair of *7th Atlantic Workshop on Energy and Environmental Economics*, Economics for Energy, U. Münster and ETH (A Toxa, Pontevedra)

2016: Organizer of *2016 Annual Workshop: Economic Challenges for Energy*, Economics for Energy (Madrid)

- 2016: Member of the Scientific Committee of the *Energy Economics Iberian Conference* (Lisboa)
- 2015: Organizer of *2015 Annual Conference*, Florence School of Regulation-Climate, European University Institute (Florence).
- 2015: Organizer of *2015 Annual Workshop: Economic Challenges for Energy*, Economics for Energy (Madrid).
- 2014: Organizer of *Scoping Workshp: Energy/Carbon Taxation and Climate Policies*, Florence School of Regulation-Climate, European University Institute (Florence).
- 2014: Program Committee of *14th IAEE European Conference on Energy Economics* (Rome).
- 2014: Organizer of *Scoping Workshp: Energy Efficiency and Climate Policies*, Florence School of Regulation-Climate, European University Institute (Florence).
- 2014: Program Committee of *39th IAEE International Conference on Energy Economics* (Bergen, Norway).
- 2014: Committee Chair of *6th Atlantic Workshop on Energy and Environmental Economics*, Economics for Energy and ZEW (A Toxa, Spain).
- 2014: Scientific Committee of *IX Congreso de la Asociación Española para la Economía Energética* (Madrid).
- 2014: Organizer of *2014 Annual Workshop: Economic Challenges for Energy*, Economics for Energy (Madrid).
- 2014: Scientific Committee of *14th IAEE European Conference on Energy Economics* (Rome).
- 2013: Scientific Committee of *VIII Congreso de la Asociación Española para la Economía Energética* (Valencia, Spain).
- 2013: Organizer of *2013 Economics for Energy Annual Workshop: Economic Challenges for Energy* (Madrid).
- 2012: Organizer of the meeting of WG3 Intergovernmental Panel on Climate Change (LAM3, IPCC) (Vigo, Spain).
- 2012: Scientific Committee of the *2012 IAEE European Conference* (Venice).
- 2012: Organizer of *2012 Economics for Energy Annual Workshop: Economic Challenges for Energy* (Madrid).

G) INVITED SEMINARS

At Spanish Universities (Universidad Internacional Menéndez Pelayo, A Coruña, Santiago de Compostela, Zaragoza, Murcia, Las Palmas, UNED, Salamanca, Illes Balears, Cantabria, Basque Country) and abroad (Técnica de Lisboa –Portugal, Estado de Pernambuco –Brazil, La Sapienza –Italy, Urbino –Italy, Bologna –Italy, University College London –United Kingdom, La Habana –Cuba, Tokyo University of Foreign Studies –Japan, Roma Tre –Italy, Potsdam Institute for Climate Change Impacts –Germany, ETH Zürich –Switzerland, University of Keio –Japan, University of Oxford –United Kingdom), Arizona State University –U.S, European Environment Agency –Denmark. University of Siena, Italy.

H) COORDINATION AND PARTICIPATION IN GRADUATE PROGRAMS

Coordinator of the Master in 'Management of Sustainable Development', University of Vigo, from 2008 to 2014.

Coordinator of the Doctoral Programme. Department of Applied Economics, University of Vigo, 2004.

Lecturer in the Department of Applied Economic Analysis, University of Las Palmas de Gran Canaria (PhD studies)

Lecturer at the University of Balearic Islands (PhD studies)

Lecturer at the UNED (PhD studies)

Lecturer at the 'Instituto Agronómico Mediterráneo de Zaragoza' (Mediterranean Agronomic Institute of Zaragoza)

I) PhD SUPERVISION / PhD EXAMINER

Supervision of 'Imposición Ambiental y Reforma Fiscal Verde. Ensayos Teóricos y Aplicados' (Environmental Taxation and Green Tax Reform. Theoretical and Applied Essays). Miguel Rodríguez, Department of Applied Economics, University of Vigo, September 2003.

Supervision of 'Essays on Energy Taxes and Demand'. Xiral López. School of Economics, University of Vigo, November 2012.

Supervision of 'Energy Efficiency Policies in the Residential Sector'. Ana Ramos. School of Economics, University of Vigo, September 2015.

Ongoing supervision of 'Análisis del Impacto de las Políticas Climáticas Europeas en la Competitividad de la Economía Española' (Analysis of the Impact of European Climate Policies in the Competitiveness of the Spanish Economy). Pablo Pintos. ICAI, Universidad Pontificia Comillas, Madrid. Estimated completion: June 2017.

2002: Examiner in 'Crecimiento Económico con Restricciones Medioambientales en Economías Turísticas' (Economic Growth with Environmental Restrictions in Tourist Economies), Javier Lozano, University of the Balearic Islands (Spain).

2006: Examiner in 'Análisis Económico de la Política contra el Cambio Climático en España' (Economic Analysis of Climate Change Policy in Spain), Mikel González, University of the Basque Country (Spain).

2008: Examiner in 'Enforcement of Environmental Regulation in China', Liguó Lin. University Autònoma Barcelona.

2008: Examiner in 'Anomalies in Contingent Valuation and Plausible Empirical Explanations', Elena Ojea. University of Santiago de Compostela.

2010: Examiner in 'La Intensidad Energética en España: Claves para Entender su Evolución' (Energy Intensity in Spain: Keys to Understand its Evolution), María Mendiluce. Comillas Pontifical University.

2010: Examiner in 'Regulatory Tools to Enhance Security of Supply at the Generation Level in Electricity Markets', Pablo Rodilla. Comillas Pontifical University.

2010: Examiner in 'Assessment and Management of Galician Ecosystems: New Frontiers and Applications', Melina Barrio. University of Santiago de Compostela.

2012: Examiner in 'Climate Change Technology Transfer to Developing Countries: Evidence Analysis and Policy Recommendations', Ana Pueyo. Technical University of Madrid.

2012: Examiner in 'Valoración de las Externalidades Producidas por la Generación de Energía Eléctrica: El caso de Candiota (Brasil). Perspectivas Tecnológicas y Costes de la Energía' (Assessment of Externalities Produced by Electricity Generation: The Case of Candiota (Brasil). Technological Perspectives and Energy Costs. Carlos A. de Melo. University of Alcalá.

2012: Examiner in 'Renewable Energy Sources as a Central Mechanism to Reduce Polluting Emissions'. Susana Silva. University of Porto

2012: Examiner in 'Valoración Económica de las Preferencias de los Turistas por Políticas de Cambio Climático en Canarias' (Economic Valuation of the Preferences of Tourists on Climate Change Policies in the Canary Islands). Ana Rodríguez-Zubiarre. University of Las Palmas de Gran Canaria.

2014: Examiner in 'Investing in Energy Use and Production to Mitigate and to Adapt to Climate Change', François Cohen. ParisTech: Institut des Sciences et Technologies.

2015: Examiner in 'Social Norms, Economic Incentives and Environmental Policies', María Alló. University of Santiago de Compostela.

OTHER MERITS

A) ADVICE TO PUBLIC AND PRIVATE SECTORS

Invited speaker to the Committee on Environment, Public Health and Food Safety (ENVI), European Parliament (2016).

Lead author of the Intergovernmental Panel on Climate Change (IPCC), for the Fifth Assessment Report of Working Group 3 (Mitigation). 2010-2014.

Invited speaker to the Committee on Studies of Climate Change, Spanish Parliament (2013).

Participant in the commission to define the contents of the Fifth Assessment Report of the IPCC (UN) (2009).

External expert in the Environmental Stakeholders Forum, Iberdrola (2009-2012).

Member of the expert committee on energy, Basque Presidency (2011).

Director of the Chair on Economics of Climate Change, FEDEA (2007-2010).

Member of the committee of experts to write a white paper on a reference Spanish centre on climate change, Secretary of State for Climate Change (MMA) and Ministry of Research (Micinn) (2009).

External expert on the Commission on Cars and the Environment, Real Automóvil Club de Cataluña (2008).

Board member for the provision of positions in the scale of scientific holders of the Consejo Superior de Investigaciones Científicas (since 2006).

Representative of Spain in NEBEI (Network of Experts on Benefits) of the Geneva Convention and its Protocols, since May 2005. Coordinated by the Spanish Ministry of the Environment.

B) PARTICIPATION IN ACADEMIC ASSOCIATIONS

Founding member of *Asociación Española de Economía de la Energía* (Vicepresident, 2004-2006, and member of the board, 2006-2010).

Founding member of *Asociación Hispano Portuguesa de Economía de los Recursos Naturales y Ambientales*.

Member of *International Association for Energy Economics*.

Member of *Transport and Public Utilities Group* of the *American Economic Association*.

C) UNIVERSITY ADMINISTRATION AND MANAGEMENT

Vice-Dean of Foreign Affairs of the Faculty of Economics of Vigo (1998-2003).

Commissioner for the European Higher Education of the University of Vigo, with the rank of Vice-Chancellor (2005-2006).

Director of Research Group Rede (2004-2011).

Coordinator of the Master's degree on Management of Sustainable Development (2008-2014), and currently advisor.