

# CURRICULUM VITAE

XAVIER LABANDEIRA

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## Summary

I am Professor of Economics at the *University of Vigo* and member of the Galician inter-university research center in social sciences ECOBAS. I am also director of *Economics for Energy*, a private non-profit research center devoted to the economic analysis of energy issues in Spain. Between 2014 and 2017 I was the director of the *Florence School of Regulation-Climate* at the EUI (Florence), dealing with EU climate policies. I have been a member of the UN Intergovernmental Panel on Climate Change (IPCC) for the elaboration of its Fifth and Sixth Assessment Reports (respectively released in 2014 and 2022). My teaching and research interests lay on the borderlines of Public, Energy and Environmental Economics. I have published around 40 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 and I have been project leader of around 30 research projects since 2000, mostly funded by public institutions and private firms. I have supervised several doctoral theses and postdoc researchers. I have always attempted to respond, with rigor and neutrality, to relevant socio-economic issues and looked for channels through which such findings could be widely diffused. In this sense I am Secretary General of the EAERE's Policy Outreach Committee since 2024. Moreover, I was a member of the official committee of experts for the reform of the Spanish tax system (2021-2022). I was awarded with the Galician Academy of Sciences medal of research achievements in economics and social sciences in its first edition (2019).

## PERSONAL DETAILS

Name: Xavier Labandeira

Birth: Vigo (Spain), 2 July 1967

## 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)

## Current positions

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

Director of *Economics for Energy*

## Work addresses

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

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

1. 'Carbon Leakage from Fuel Taxes: Evidence from a Natural Experiment' *Environmental and Resource Economics*, Vol. 87, págs. 3235–3270 (2024) (con Teixidó, J., Palencia, F.J. y Labeaga, J.M.) IF2023: 3.2 (**Q1**, Economics) <https://doi.org/10.1007/s10640-024-00914-6>
2. 'Discrete-continuous Models of Residential Energy Demand: A Comprehensive Review' *Resource and Energy Economics*, 77 (2024): 101426 (with Hanemann, M., Labeaga, J.M. and Vásquez-Lavín, F.); IF2023: 2.6 (**Q1**, Economics) <https://doi.org/10.1016/j.reseneeco.2024.101426>
3. 'Major Reforms in Electricity Pricing: Evidence from a Quasi-Experiment', *The Economic Journal*, 132 (2022): 1517-1541 (with Labeaga, J.M. and Teixidó, J.); IF2022: 3.2 (**Q2**, Economics) <https://doi.org/10.1093/ej/ueab076>
4. 'Taxation and Ecological Transition during Climate and Energy Crises: Main Conclusions of the 2022 Spanish White Book on Tax Reform', *Real Instituto Elcano WP 09* (2022)
5. 'Distributional Impacts of Carbon Taxation in Mexico', *Cuadernos Económicos de ICE*, 104 (2022): 137-167 (with Labeaga, J.M., López-Otero, X. and Sterner, T.)
6. 'Seasonal and Subseasonal Wind Power Characterization and Forecasting for the Iberian Peninsula and the Canary Islands: A Systematic Review', *International Journal of Climatology*, 42 (2022): 2601-2613 (with Bayo, S., García-Rodríguez, M. and Añel, J.); IF2022: 3.9 (**Q2**, Meteorology & atmospheric sciences). doi: <https://doi.org/10.1002/joc.7359>
7. 'Transport Taxes and Decarbonization in Spain: Distributional Impacts and Compensation', *Hacienda Pública Española/Review of Public Economics*, 236 (2021): 101-136 (with Gago, A., Labeaga, J.M. and López-Otero, X.); IF2021: 0.452 (**Q4**, Economics) <https://dx.doi.org/10.7866/HPE-RPE.21.3.5>
8. 'Energy Taxation, Subsidy Removal and Poverty in Mexico' *Environment and Development Economics*, 26 (2021): 239-260 (with Labeaga, J.M. and López-Otero, X.); IF2021: 2.383 (**Q2**, Economics). <https://doi.org/10.1017/S1355770X20000364>
9. 'The Impacts of Energy Efficiency Policies: Meta-analysis' *Energy Policy*, 147 (2020): 111790 (with Labeaga, J.M., Linares, P. and López-Otero, X.); IF2020: 7.042 (**Q1**, Economics). <https://doi.org/10.1016/j.enpol.2020.111790>
10. 'Exploring Energy Use in Retail Stores: A Field Experiment' *Energy Economics*, Vol 84 (2019), 104570 (with Loureiro, M.); IF2019: 5.203 (**Q1**, Economics). [10.1016/j.eneco.2019.104570](https://doi.org/10.1016/j.eneco.2019.104570)
11. 'New Green Tax Reforms: Ex-Ante Assessments for Spain' *Sustainability*, 11 (2019): 5060 (with Labeaga, J.M. and López-Otero, X.); IF2019: 2.576 (**Q2**, Environmental Studies). [10.3390/su12010350](https://doi.org/10.3390/su12010350)

12. 'Free Allocation Rules in the EU Emissions Trading System: What does the Empirical Literature Show?' *Climate Policy*, 19 (2019): 439-452 (with Verde, S., Teixedó, J. and Marcantonini, C.); IF2019: 4.011 (Q1, Environmental Studies; Q1, Public Administration) [10.1080/14693062.2018.1549969](https://doi.org/10.1080/14693062.2018.1549969)
13. 'Elasticities of Transport Fuels at Times of Economic Crisis: An Empirical Analysis for Spain', *Energy Economics*, 68 (2017): 66-80 (with Bakhat, M., Labeaga, J.M. and López-Otero, X.); IF2017: 3.910 (Q1, Economics) [10.1016/j.eneco.2017.10.019](https://doi.org/10.1016/j.eneco.2017.10.019)
14. 'Impact of Cold and Heat Waves on Electricity Generation', *Atmosphere*, 8 (2017) (with Añel, J., Fernández-González, M., Labandeira, X., López-Otero, X. and de la Torre, L.); IF2017: 1.704 (Q3, Meteorology & Atmospheric Sciences) [10.3390/atmos8110209](https://doi.org/10.3390/atmos8110209)
15. 'A Meta-analysis on the Price Elasticity of Energy Demand', *Energy Policy*, 102 (2017): 549-568 (with Labeaga, J.M. and López-Otero, X.); IF2017: 4.140 (Q1, Environmental Sciences; Q2, Energy & Fuels) [10.1016/j.enpol.2017.01.002](https://doi.org/10.1016/j.enpol.2017.01.002)
16. 'Pro-environmental Households and Energy Efficiency in Spain', *Environmental and Resource Economics*, 62, 2 (2016): 367-393 (with Ramos, A. and Löschel, A.); IF2016: 1.582 (Q2, Economics) [10.1007/s10640-015-9899-8](https://doi.org/10.1007/s10640-015-9899-8)
17. 'The Role of Information for Energy Efficiency in the Residential Sector', *Energy Economics*, 52, S1 (2015): S17-S29 (with Ramos, A., Gago, A. and Linares, P.); IF2015: 2.862 (Q1, Economics) [10.1016/j.eneco.2015.08.022](https://doi.org/10.1016/j.eneco.2015.08.022)
18. '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) [10.1016/j.tranpol.2014.09.003](https://doi.org/10.1016/j.tranpol.2014.09.003)
19. '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) [10.7866/HPE-RPE.14.1.5](https://doi.org/10.7866/HPE-RPE.14.1.5)
20. 'Transport and Low-carbon Fuel: A Study of Public Preferences in Spain', *Energy Economics*, 40, S1 (2013): S122-S133 (with Loureiro, M. and Hanemann, M.); IF2013: 2.580 (Q1, Economics) [10.1016/j.eneco.2013.09.010](https://doi.org/10.1016/j.eneco.2013.09.010)
21. 'Renewable Generation and Electricity Prices: Taking Stock and New Evidence for Germany and Austria', *Energy Economics*, 40, S1 (2013): S159-S171 (with Würzburg, K. and Linares, P.); IF2013: 2.580 (Q1, Economics) [10.1016/j.eneco.2013.09.011](https://doi.org/10.1016/j.eneco.2013.09.011)
22. 'Estimation of Elasticity Price of Electricity with Incomplete Information', *Energy Economics*, 34, 3 (2012): 627-633 (with Labeaga, J. M. and López-Otero, X.); IF2012: 2.538 (Q1, Economics) [10.1016/j.eneco.2011.03.008](https://doi.org/10.1016/j.eneco.2011.03.008)
23. 'Some Economic Aspects of Energy Security', *European Research Studies*, 15 (2012): 47-64 (with Manzano, B.).
24. 'Climate Change, Energy and Social Preferences on Policies: Exploratory Evidence for Spain', *Climate Research*, 48 (2011): 343-348 (with Hanemann, M. and Loureiro, M.); IF2011: 1.994 (Q2, Environmental Sciences) [10.3354/cr00994](https://doi.org/10.3354/cr00994)
25. 'An Ex-post Analysis of the Effect of Renewables and Cogeneration on Spanish Electricity Prices', *Energy Economics*, 33 (2011): 59-65 (with Gelabert, L. and Linares, P.); IF2011: 2.344 (Q1, Economics) [10.1016/j.eneco.2011.07.027](https://doi.org/10.1016/j.eneco.2011.07.027)

26. 'Energy Efficiency: Economics and Policy', *Journal of Economic Surveys*, 24 (2010): 573-592 (with Linares, P.); IF2010: 1.581 (**Q1**, Economics) [10.1111/j.1467-6419.2009.00609.x](https://doi.org/10.1111/j.1467-6419.2009.00609.x)
27. 'Wide and Narrow Approaches to National Climate Policies: a Case Study for Spain', *Climate Policy*, 10 (2010): 51-69 (with Rodríguez, M.); IF2010: 1.630 (**Q1** Public Administration; **Q2**, Environmental Studies) [10.3763/cpol.2007.0458](https://doi.org/10.3763/cpol.2007.0458)
28. 'An Integrated Economic and Distributional Analysis of Energy Policies', *Energy Policy*, 37 (2009): 5776-5786 (with Labeaga, J. M. and Rodríguez, M.); IF2009: 2.436 (**Q1**, Environmental Studies).
29. 'An Integrated Approach to Simulate the Economic Impacts of Carbon Emissions Trading', *Energy Journal*, 30 (2009): 217-237 (with Linares, P. and Rodríguez, M.); IF2009: 1.857 (**Q1**, Economics; **Q1**, Environmental Studies) [10.1016/j.enpol.2009.08.041](https://doi.org/10.1016/j.enpol.2009.08.041)
30. 'Specific and General Taxation of Tourism Activities. Evidence from Spain', *Tourism Management*, 30 (2009): 381-392 (with Gago, A., Picos, F. and Rodríguez, M.); IF2009: 1.882 (**Q1**, Environmental Studies; **Q2**, Management) [10.1016/j.tourman.2008.08.004](https://doi.org/10.1016/j.tourman.2008.08.004)
31. 'Barriers to the Introduction of Market-based Instruments in Climate Policies: an Integrated Theoretical Framework', *Environmental Economics and Policy Studies*, 10 (2009): 41-68 (with Del Río, P.)
32. 'A Residential Energy Demand System for Spain', *Energy Journal*, 27 (2006): 87-112 (with Labeaga, J. M. and Rodríguez, M.); IF2006: 1.038 (**Q2**, Economics) [10.5547/ISSN0195-6574-EJ-Vol27-No2-6](https://doi.org/10.5547/ISSN0195-6574-EJ-Vol27-No2-6)
33. 'Estimation and Control of Spanish Energy-Related CO<sub>2</sub> Emissions: an Input-Output Approach', *Energy Policy*, 30 (2002): 597-611. (with Labeaga, J. M.); IF2002: 0.726. [10.1016/S0301-4215\(01\)00124-0](https://doi.org/10.1016/S0301-4215(01)00124-0)
34. 'Towards a Green Tax Reform Model', *Journal of Environmental Policy and Planning*, 2 (2000): 25-37. (with Gago, A.).
35. 'Combining Input-Output and Microsimulation to Assess the Effects of Carbon Taxation on Spanish households', *Fiscal Studies*, 20 (1999): 303-318. (with Labeaga, J. M.); IF2003: 0.128 (**Q4**, Economics) [10.1111/j.1475-5890.1999.tb00015.x](https://doi.org/10.1111/j.1475-5890.1999.tb00015.x)
36. 'Green Tax Reform: Facts and Experiences', *Australian Tax Forum*, 14 (1998): 361-379. (with Álvarez, J. C. and Gago, A.).
37. 'Market Instruments and the Control of Acid Rain Damage, Effects of a Sulphur Tax on the Spanish Electricity Generating Industry', *Energy Policy*, 24 (1996): 841-854; IF1996: 0.799. [10.1016/0301-4215\(96\)00062-6](https://doi.org/10.1016/0301-4215(96)00062-6)

## B) BOOKS AND BOOK CHAPTERS IN ENGLISH

1. 'National and Subnational Policies and Institutions' in Skea, J. et al. (eds) *Climate Change 2022: Mitigation of Climate Change*. Working Group III Contribution to the IPCC Sixth Assessment Report (2022) (with Dubash, N. et al.- Review editor).
2. 'Taxing Vehicle Use to Overcome the Problems of Conventional Transport Taxes' in Villar-Ezcurra, M., Milne, J., Ashiabor, H. and Skou-Andersen, M. (eds) *Environmental Fiscal Challenges of Cities and Transport*. Edward Elgar, Cheltenham (2019) (with Gago, A. and López Otero, X.).

3. '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 and 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 Zyllicz, T.)
4. '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. and Ramos, A.)
5. '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.)
6. '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.).
7. *Climate Change Policies. Global Challenges and Future Prospects*. Edward Elgar, Cheltenham (2010) (with Cerdá, E.).
8. '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.).
9. '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)
10. '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.).
11. '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.).
12. *Economic Modelling of Climate Change and Energy Policies*. Edward Elgar, Cheltenham (2006) (with De Miguel, C. and Manzano, B.).
13. '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.).
14. 'The Effects of a Sudden CO<sub>2</sub> 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.).
15. 'Spain: Fast Growth in CO<sub>2</sub> Emissions' in Collier, U. and Löfstedt, R. (eds) *Cases in Climate Change Policy*, Earthscan, London (1997).

## OTHER RESEARCH ACTIVITIES

### A) RECENT RESEARCH PROJECTS

1. 'Evaluación de Políticas para la Transición Energética' (Assessment of Energy Transition Policies) (PID2022-136376OB-I00), funded by the Spanish Ministry of Science, Innovation and Universities, AEI and ERDF. September 2023-September 2027 (Project leader).
2. 'Precios al Carbono en el Transporte: Una Evaluación de Políticas Climáticas' (Carbon Prices in Transportation: Assessing Climate Policies) (TED2021-130638A-I00), funded by the Spanish Ministry of Science and Innovation and AEI. December 2022-December 2024.
3. 'Innovation, Investment, Infrastructure and sector Integration: Transformative policies for a Climate-neutral European Union (4I-TRACTION)', funded by H2020 European Commission. June 2021-May 2024 (Project leader).
4. 'Climate Change Impacts and Policies in Heterogeneous Societies', funded by JPI Climate. September 2019-February 2023.
5. 'Transporte y Políticas para la Transición Energética a una Economía Baja en Carbono en España' (Transport and Policies for Energy Transition to a Low Carbon Economy in Spain), funded by the Spanish Ministry of Science and Innovation. January 2019-September 2022 (Project leader).
6. '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, EU).
7. '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, EU).
8. '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).
9. '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).

### B) RECENT CONFERENCES

1. 2024: FSR Climate Annual Conference 24. Florence. Keynote: 'Towards Just Transition: The Role of Fiscal Policies'.
2. 2024: Second AERNA Young's Day. Girona. Keynote: 'On Distributional Impacts and Compensations from Climate Policies'.
1. 2023: 24th Global Conference on Environmental Taxation. Paris. 'Offsetting Energy Price Rises through Public Intervention: Spain as a Case Study' (with Gago, A., Labeaga, J.M. and López-Otero, X.).

2. 2022: 17<sup>th</sup> IAEE European Energy Conference, Athens. 'Energy and Climate Proposals in the Spanish White Book on Tax Reform'.
3. 2021: FSR Climate Annual Conference, Florence. 'Environmental Taxation in the 2020s: Promises and Constraints'.
4. 2021: 26<sup>th</sup> EAERE Annual Conference, Berlin. "The role of firms in climate mitigation: Internal strategies, new business ethics, and the role of public policies".
5. 2019: 20<sup>th</sup> Global Conference on Environmental Taxation. Limassol (Cyprus). 'Energy Taxation and Saliency: Evidence and Implications' (with Labeaga, J.M. and Teixedó, J.).
6. 2018: 19<sup>th</sup> Global Conference on Environmental Taxation. Madrid. Invited keynote: 'PPP and the design of new transport taxes'.
7. 2018: 8<sup>th</sup> Atlantic Workshop on Energy and Environmental Economics. 'Deep Reforms in Electricity Pricing. Evidence from a Natural Experiment' (with Labeaga, J.M. and Teixedó, J.).
8. 2016: 17<sup>th</sup> Global Conference on Environmental Taxation. Groningen. Invited keynote: 'Climate Change and Instrument Mixes'.
9. 2016: VII AERNA Conference. Aveiro. Invited keynote: '25 Years of European Climate Policies'.

### **C) RESEARCH STAYS**

1992 and 1993: University of California, Berkeley (USA).

1994-1997: University College of London (UK).

1998: Tokyo University of Foreign Studies (Japan).

2013: Arizona State University (USA).

2017-2024: European University Institute (Italy)

2020: Keio University (Japan)

### **D) PhD SUPERVISION**

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

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, September 2017

Supervision of "Servicios Medioambientales, Climáticos y Transferencia de Conocimiento Aplicados a la Industria Energética Renovable' (Environmental and Climate Services, and Knowledge Transfer in the Renewable Energy Industry). Susana Bayo, University of Vigo, July 2024