

# Javier Barbero Jiménez

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## PERSONAL AND CONTACT INFORMATION

**Citizenship:** Spanish

**Birth Date:** 4th January, 1988

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## ABOUT ME:

I am a Lecturer in Economics at the Department of Economic Analysis at Universidad Autónoma de Madrid (UAM). In June 2022, I received the accreditation to Senior Lecturer (Profesor Titular) from the Spanish National Agency for Quality Assessment and Accreditation (ANECA).

Previously, I was an Economic Analyst at the Directorate for Growth & Innovation in the European Commission Joint Research Centre (JRC), located in Seville (Spain), as a member of the Territorial Data Analysis and Modeling (TEDAM) team.

## CURRENT AFFILIATIONS

**Universidad Autónoma de Madrid (UAM) — 09/2022 - Present**  
Lecturer in Economics. Profesor Ayudante Doctor.

**Oviedo Efficiency Group (OEG), Universidad de Oviedo — 2018 - Present**  
Researcher.

## PREVIOUS POSITIONS:

**European Commission, Joint Research Centre (JRC) — 10/2016 - 08/2022**  
Economic analyst at the Directorate for Growth & Innovation.

Territorial Data Analysis and Modelling (TEDAM) team.

## **VISITING POSITIONS AND RESEARCH STAYS**

**Center of Operations Research (CIO). Universidad Miguel Hernandez de Elche (UMH) — 04/2016**

Two weeks short research stay. Pos-doctoral stay under the supervision of Professor Juan Aparicio.

**The London School of Economic and Political Science (LSE) — 01/2015 - 04/2015**  
Department of Geography and Environment. Pre-doctoral stay under the supervision of Professor Andrés Rodríguez-Pose

**Université du Québec à Montréal (ESG-UQAM) — 01/2013 - 04/2013**  
École des Sciences de Gestion. Pre-doctoral stay under the supervision of Professor Kristian Behrens.

## **EDUCATION**

**Ph.D. in Economics — Universidad Autónoma de Madrid — 2012 - 2016**

Supervisors: José L. Zofío and Inmaculada C. Álvarez

Thesis committee: Jacques François Thisse (CORE), Gianmarco Ottaviano (LSE), Diego Puga (CEMFI), Elisenda Paluzie (UB), Carlos Llano (UAM).

Grade: Cum Laude by Unanimity.

**MSc. in International Economics — Universidad Autónoma de Madrid— 2010 - 2012**

Graded with distinction.

**B.A. Degree in Economics — Universidad Autónoma de Madrid.— 2006 - 2010**

Award for the best academic record of the undergraduate of the academic year 2009/2010.

## **TEACHING EXPERIENCE**

**Universidad Autónoma de Madrid (UAM), Madrid, Spain**

- **Economic Growth.** Bachelor of Economics (2022-2023; 2023-2024; 2024-2025). Teaching empirical evidence, Solow model, growth accounting, overlapping generations models, and endogenous growth models to third years students.
- **Macroeconomics: Open economy and inflation.** Bachelor in Business Administration (2022-2023; 2023-2024; 2024-2025). Teaching the labour market, the Aggregate Supply and Aggregate Demand model, the Philips Curve, public debt, and the Mundell-Fleming model to second year students.

- **Macroeconomics in the Modern Economy:** Bachelor in Business Analytics (2024-2025). Teaching the labour market, the Philips Curve, the IS-LM-PC model,, economic growth, spatial macroeconomics, and global macroeconomic challenges. The course is taught in English.
- **Microeconomics: Consumer Choice and Producer Behavior.** BA in Economics. (2015-2016; 2014-2015; 2013-2014; 2012-2013). Teaching introductory microeconomic theory to first year BA students in Economics.
- **Microeconomics: Uncertainty and Game Theory.** BA in Economics. (2014-2015). Teaching advanced microeconomic theory of choice under uncertainty and game theory to third year BA students in Economics.
- **Computer Lab in Economics.** MSc in International Economics. (2015-2016). Teaching how to use MATLAB to graduate students, from basic operations to optimization techniques and numerical solving of economic models. The course was taught in English.

#### **Short Courses and Computer Labs at Universidad Autónoma de Madrid:**

- **Stata Computer Lab** as part of the course **Microeconometrics: Discrete Choice and Panel Data Models** taught by professor William H. Greene. Short lab (5 hours) of the Advanced Courses in Economics, Universidad Autónoma de Madrid (2015). The lab was taught in English.
- **Introduction to MATLAB for Economics.** MSc in International Economics. (2014). Short course (4 hours) taught to graduate students on how to use MATLAB for solving economic models. The course was taught in English.
- **Stata Computer Lab** as part of the course **Panel Data Analysis with Stata** taught by professor Badi H Baltagi. Short lab (2 hours) of the Advanced Courses in Economics, Universidad Autónoma de Madrid. The lab was taught in English.

#### **EDUCATIONAL INNOVATION PROJECT**

- *“Hacia un proceso de evaluación más armonizado: Elaboración de una rúbrica para los Trabajos Fin de Grado en Economía y Empresa”.* (CEE\_008.23\_INN). Project coordinator. Universidad Autónoma de Madrid. Academic year 2023-2024.
- *“La utilización del vídeo como recurso de aprendizaje activo en un entorno de aula invertida”.* (CEE\_002.22\_INN). Project co-coordinator. Universidad Autónoma de Madrid. Academic year 2022-2023.
- *“Proyecto de innovación docente del Máster en Economía Internacional para la mejora de la enseñanza y el desarrollo de competencias, mediante el uso de la herramienta Moodle y de las nuevas tecnologías, en la asignatura Computer Lab in Economics”.* Participant. Universidad Autónoma de Madrid. Academic year 2015-2016.

- “El uso de Moodle en las asignaturas de Microeconomía del Grado de Economía: una herramienta común para la difusión de contenidos comunes.”. Participant. Universidad Autónoma de Madrid. Academic year 2014-2015.

## PUBLICATIONS

### Publications in Indexed Journals (JCR)

1. Zofío, José L.; Díaz-Lanchas, Jorge; Persyn, Damiaan; Barbero, Javier. (2025). **Estimating National and Foreign Trade Elasticities Using Generalized Transport Costs.** *Journal of Regional Science.* 65(2): 471-496. <https://doi.org/10.1111/jors.12746>
2. Barbero, Javier; Rodríguez-Crespo, Ernesto; Santos, Anabela M. (2025). **How are regions using European funds to promote the circular economy? Shedding light on factors explaining the pathway.** *Applied Economic Analysis.* 33(97): 19-34. <http://dx.doi.org/10.1108/AEA-02-2024-0092>
3. Barbero, Javier; Rodríguez-Crespo, Ernesto; Suárez-Varela, Marta; Velasco, Pilar (2024). **Climate clubs and firm environmental performance: A regional institutional perspective.** *Economic Analysis and Policy.* 84: 663-678. <https://doi.org/10.1016/j.eap.2024.09.020>
4. Gianelle, Carlo; Guzzo, Fabrizio; Barbero, Javier; Salotti, Simone (2024). **The governance of regional innovation policy and its economic implications.** *The Annals of Regional Science.* 72: 1231–1254. <https://doi.org/10.1007/s00168-023-01241-2>
5. Zofío, José L.; Aparicio, Juan; Barbero, Javier; Zabala-Iturriagagoitia, Jon Mikel. (2024). **Benchmarking performance through efficiency analysis trees: Improvement strategies for colombian higher education institutions.** *Socio-Economic Planning Sciences.* 92(101845): 1-15. <https://doi.org/10.1016/j.seps.2024.101845>
6. Barbero, Javier; Diukanova, Olga; Gianelle, Carlo; Salotti, Simone; Santoalha, Artur (2024). **Technologically related diversification: One size does not fit all European regions.** *Research Policy,* 53(3) (104973): 1-13. <https://doi.org/10.1016/j.respol.2024.104973>
7. Barbero, Javier; Christou, Tryfonas; Crucitti, Francesca; García Rodríguez, Abián; Lazarou Nicholas-Joseph, Monfort, Philippe; Salotti, Simone (2024). **A spatial macroeconomic analysis of the equity-efficiency trade-off of the European cohesion policy.** *Spatial Economic Analysis,* 19 (3): 394-410. <https://doi.org/10.1080/17421772.2024.2306948>
8. Barbero, Javier; Conte, Andrea; Crucitti, Francesca; Lazarou, Nicholas-Joseph; Sakkas, Stylianos; and Salotti, Simone (2024). **The impact of the recovery fund on EU regions: a spatial general equilibrium analysis.** *Regional Studies.* 58(2): 336-349. <https://doi.org/10.1080/00343404.2022.2123467>

9. Santos, Anabela; Barbero, Javier; Salotti, Simone; Diukanova, Olga; Pontikakis, Dimitrios (2023). **On the road to regional 'Competitive Environmental Sustainability': the role of the European structural funds.** *Industry and Innovation*. 30(7): 801-823.. <https://doi.org/10.1080/13662716.2023.2236048>
10. Barbero, Javier, & Zofío, José L. (2023). **The measurement of profit, profitability, cost and revenue efficiency through data envelopment analysis: A comparison of models using Benchmarking Economic Efficiency.** *Socio-Economic Planning Sciences*, 89(101656): 1-18. <https://doi.org/10.1016/j.seps.2023.101656>
11. Marques Santos, Anabela; Barbero, Javier; Salotti, Simone; Conte, Andrea (2023). **Job creation and destruction in the digital age: Assessing heterogeneous effects across European Union countries.** *Economic Modelling*. 126(106405): 1-12. <https://doi.org/10.1016/j.econmod.2023.106405>
12. Persyn, Damiaan; Barbero, Javier; Díaz-Lanchas, Jorge; Lecca, Patrizio; Mandras, Giovanni; Salotti, Simone (2023). **The ripple effects of large-scale transport infrastructure investment.** *Journal of Regional Science*. 63(4): 755-792. <https://doi.org/10.1111/jors.12639>
13. Zofío, José Luis; Aparicio, Juan; Barbero, Javier; Zabala-Iturriagoitia, Jon Mikel (2023). **The influence of bottlenecks on innovation systems performance: Put the slowest climber first.** *Technological Forecasting and Social Change*. 193(122607): 1-15. <https://doi.org/10.1016/j.techfore.2023.122607>
14. Barbero, Javier; Christensen, Martin; Conte, Andrea; Lecca, Patrizio; Rodríguez-Pose, Andrés; and Salotti Simone (2023). **Improving Government Quality in the Regions of the EU and its System-Wide Benefits for Cohesion Policy.** *Journal of Common Market Studies*. 61(1): 38-57. <https://doi.org/10.1111/jcms.13337>
15. Barbero, Javier; and Rodríguez-Crespo, Ernesto (2022). **Technological, institutional, and geographical peripheries: regional development and risk of poverty in the European regions.** *The Annals of Regional Science*. 69, 311-332. <https://doi.org/10.1007/s00168-022-01127-9>
16. Barbero, Javier; Diukanova, Olga; Gianelle, Carlo; Salotti, Simone; Santoalha, Artur (2022). **Economic modelling to evaluate Smart Specialisation: an analysis of research and innovation targets in Southern Europe.** *Regional Studies*, 56(9), 1496-1509. <https://doi.org/10.1080/00343404.2021.1926959>
17. Persyn, Damiaan; Díaz-Lanchas, Jorge; Barbero, Javier (2022), **Estimating road transport costs between and within European Union regions,** *Transport Policy*, 124, 33-42. <https://doi.org/10.1016/j.tranpol.2020.04.006>
18. Barbero, Javier; De Lucio, Juan; y Rodríguez-Crespo, Ernesto (2021). **Effects of COVID-19 on trade flows: measuring their impact through government policy responses.** *PLoS ONE*, 16(10): e0258356 . <https://doi.org/10.1371/journal.pone.0258356>

19. Barbero, Javier; Zabala-Iturriagoitia, Jon Mikel; Zofío, José L. (2021). **Is more always better? On the relevance of decreasing returns to scale on innovation.** *Technovation*, Volume 107 (102314), 1-15. <https://doi.org/10.1016/j.technovation.2021.102314>
20. Barbero, Javier; Mandras, Giovanni; Rodríguez-Crespo, Ernesto; and Rodríguez-Pose, Andrés (2021). **Quality of government and regional trade: evidence from European Union regions.** *Regional Studies*. Volume 55(7), 1240-1251. <https://doi.org/10.1080/00343404.2021.1873934>
21. Mieszkowski, Krzysztof; and Barbero, Javier (2021). **Territorial patterns of R&D+I grants supporting Smart Specialisation projects funded from the ESIF in Poland,** *Regional Studies*, Volume 55(3), 390-401. <https://doi.org/10.1080/00343404.2020.1782877>
22. Abeliánsky, Ana Lucia; Barbero, Javier and Rodríguez-Crespo, Ernesto (2021). **ICTs quality and quantity and the margins of trade,** *Telecommunications Policy*, Volume 45(1), 102056. <https://doi.org/10.1016/j.telpol.2020.102056>
23. Balk, Bert M.; Barbero, Javier and Zofío, José L. (2020). **A toolbox for calculating and decomposing Total Factor Productivity indices,** *Computers & Operations Research*, Volume 115 (104853), 1-23. <https://doi.org/10.1016/j.cor.2019.104853>
24. Álvarez, Inmaculada C.; Barbero, Javier and Zofío, José L. (2020). **A Data Envelopment Analysis Toolbox for MATLAB,** *Journal of Statistical Software*, Volume 91(3), 1-49. <http://dx.doi.org/10.18637/jss.v095.i03>
25. Barbero, Javier and Rodríguez-Crespo, Ernesto (2018). **The effect of broadband on European Union trade: A regional spatial approach,** *The World Economy*, Volume 41 (11), 2895-2913. <https://doi.org/10.1111/twec.12723>
26. Edquist, Charles; Zabala-Iturriagoitia, Jon Mikel; Barbero, Javier; Zofío, José L., (2018). **On the meaning of innovation performance: Is the synthetic indicator of the Innovation Union Scoreboard flawed?,** *Research Evaluation*, Volume 27(3), 196–211. <https://doi.org/10.1093/reseval/rvy011>
27. Barbero, Javier; Behrens, Kristian; Zofío, José L., (2018). **Industry location and wages: The role of market size and accessibility in trading networks,** *Regional Science and Urban Economics*, Volume 71, pp. 1-24. <https://doi.org/10.1016/j.regsciurbeco.2018.04.005>
28. Álvarez, Inmaculada C.; Barbero, Javier; Rodríguez-Pose, Andrés; Zofío, José L., (2018). **Does Institutional Quality Matter for Trade? Institutional Conditions in a Sectoral Trade Framework,** *World Development*, Volume 103, pp. 72-87. <https://doi.org/10.1016/j.worlddev.2017.10.010>
29. Aparicio, Juan; Barbero, Javier; Kapelko, Magdalena; Pastor, Jesús T. and Zofío, José L., (2017). **Testing the consistency and feasibility of the standard Malmquist-Luenberger index: Environmental productivity in world air**

**emissions**, *Journal of Environmental Management*, Volume 196, pp 148-160. <http://dx.doi.org/10.1016/j.jenvman.2017.03.007>

30. Álvarez, Inmaculada C.; Barbero, Javier and Zofío, José L, (2017). **A Panel Data Toolbox for MATLAB**. *Journal of Statistical Software*. Volume 76, Issue 6, pp 1-27. <http://dx.doi.org/10.18637/jss.v076.i06>
31. Álvarez, Inmaculada C.; Barbero, Javier and Zofío, José L, (2016). **A Spatial Autoregressive Panel Model to Analyze Road Network Spillovers on Production**. *Transportation Research Part A: Policy and Practice*, Elsevier, vol. 93(C), pages 83-92. <http://dx.doi.org/10.1016/j.tra.2016.08.018>
32. Barbero, Javier and Zofío, José L (2016). **The Multiregional Core-periphery Model: The Role of the Spatial Topology**. *Networks and Spatial Economics*, Springer US, 16(2): 469-496. <http://dx.doi.org/10.1007/s11067-015-9285-7>
33. Álvarez, Inmaculada C. and Barbero, Javier, (2016). **The Public Sector and Convergence with Spatial Interdependence: Empirical Evidence from Spain**. *Applied Economics*, 48(24): 2238-2252. <http://dx.doi.org/10.1080/00036846.2015.1117048>

#### Other Journals:

- Barbero, Javier; González, Emilio J.; Lucena, Javier; Picatoste, Xose; Rodríguez-Crespo, Ernesto (2024). **La utilización del vídeo como recurso de aprendizaje activo en un entorno de aula invertida**. *Revista de Estudios Empresariales Segunda Época*,(1), 55–72. <https://doi.org/10.17561/ree.n1.2024.8189>
- Barbero, Javier; Christensen, Martin; and Rocchi, Paola (2022). **The Economic Benefits of Eliminating the Regulatory Restrictiveness of Heavily Regulated Business Services in the European Union**. *Scienze Regionali, Italian Journal of Regional Science*, Speciale/2022: 99 – 126. <https://www.rivisteweb.it/doi/10.14650/103216>
- Barbero, Javier, y Rodríguez-Crespo, Ernesto. (2020). **The Role of Institutional Quality on Participation in Global Value Chains**. *Cuadernos Económicos de I.C.E.* , 100: 35-57. <https://doi.org/10.32796/cice.2020.100.7117>

#### Book Chapters:

- Díaz-Lanchas, Jorge, y Barbero, Javier (2019). **La desventaja comparativa de las regiones del siglo XXI**. In : *La riqueza de las regiones: aportaciones de la ciencia regional a la sociedad*. Editor: De Lucio Fernández, Juan José. Thomson Reuters-Civitas, España. SBN: 9788413085548

## Working Papers and Technical Reports

Only working papers not published in Journals are listed:

- Lecca, P., Barbero, J., Christensen, M., Conte, A., Di Comite, F., Diaz-Lanchas, J., Diukanova, O., Mandras, G., Persyn, D. and Sakkas, S. (2018), **RHOMOLO V3: A Spatial Modelling Framework**, EUR 29229 EN, *Publications Office of the European Union*, Luxembourg, 2018, ISBN 978-92-79-85886-4, doi:10.2760/671622, JRC111861.

## RESEARCH SOFTWARE

- **SpatialDependence.jl**: a Julia package for spatial dependence (spatial autocorrelation), spatial weights matrices, and exploratory spatial data analysis (ESDA).. <https://github.com/javierbarbero/SpatialDependence.jl>
- **DataEnvelopmentAnalysis.jl** is a Julia package that provides functions for efficiency and productivity measurement using Data Envelopment Analysis (DEA). Particularly, it implements a variety of technical efficiency models, economic efficiency models and productivity change models. <https://javierbarbero.github.io/DataEnvelopmentAnalysis.jl/stable/>
- **BenchmarkingEconomicEfficiency.jl** is a Julia package that provides functions for economic efficiency measurement using Data Envelopment Analysis (DEA). The package is an extension of the DataEnvelopmentAnalysis.jl package. <https://github.com/javierbarbero/BenchmarkingEconomicEfficiency.jl>
- **TFP Toolbox for MATLAB**: Total Factor Productivity Toolbox is a new package for MATLAB that includes functions to calculate the main Total Factor Productivity indices and their decompositions, based on Shephard's distance functions and using Data Envelopment Analysis programming techniques. The package includes code for the standard Malmquist, Moorsteen- Bjurek, price weighted and share weighted TFP indices, allowing for the choice of orientation (input or output), reference period (base, comparison, geometric mean), returns to scale (variable or constant) and specific decompositions (aggregate or identifying scale effects as well as input and output mix effects). Classic definitions of TFP corresponding to the Laspeyres, Paasche, Fisher or Törnqvist formulations can be also calculated as particular cases. <http://www.tfptoolbox.com>
- **DEA Toolbox for MATLAB**: Data Envelopment Analysis Toolbox is a new package for MATLAB that includes functions to calculate efficiency and productivity measures. The package covers the radially oriented, directional, additive, allocative, Malmquist Indices and Malmquist-Luenberger formulations. <http://www.deatoolbox.com/>
- **Panel Data Toolbox for MATLAB**: Panel Data Toolbox v2.0 is a new package for MATLAB that includes functions to estimate the main econometric methods of panel data analysis. The package covers the standard fixed, between and random



effects methods, that are extended to allow for instrumental variables, as well as spatial panel data specifications. <http://www.paneldatatoolbox.com/>

## **EDITORIAL ACTIVITIES**

- **Associate Editor.** Investigaciones Regionales - Journal of Regional Research. Since May 2023.

## **GRANTS, AWARDS AND HONORS**

### **Grants**

- **Beca de Formación del Profesorado Universitario (FPU)** (05/2012 - 12/2015). Spanish Ministry of Education. PhD Scholarship.
- **Beca de Formación de Personal Investigador (FPI)** (01/2012 - 04/2012). Universidad Autónoma de Madrid (UAM), Spain. PhD Scholarship.
- **Beca de Inicio en Estudios de Posgrado** (11/2010 - 12/2011). Universidad Autónoma de Madrid (UAM). MSc Scholarship.

### **Awards**

- EMN Microfinance Research Award 2022. Finalist for the paper “Green and digital transition: Assessing regional patterns of EU subsidies”.
- Prémio “Impacto Económico da Digitalização em Portugal”. Award for the submission of one of the five winning Call for Papers articles entitled: *Job Creation and Destruction in the Digital Age: What about Portugal?* Gabinete de Estratégia e Estudos, Ministry of Economics, Portugal. 2022.
- Award for the best academic record of the undergraduate of the academic year 2009/2010. Universidad Autónoma de Madrid (UAM), Spain.

## **CONFERENCES AND SEMINARS**

- XLVIII Reunión de Estudios Regionales, Universidad de Cuenca, October 16-18, 2024, Cuenca, Spain.
- II Congreso de Eficiencia y Productividad, September, 12-13, 2024, Málaga, Spain.
- 39th meeting of the European Economic Association, August 26-30, 2024, Rotterdam, Netherlands.
- JuliaCon 2024, July 9th-13th, 2024, Eindhoven, The Netherlands.
- XXIV Reunión de Economía Mundial, May 27-28, 2024, Sevilla, Spain.
- 62nd ERSA Congress “Urban Challenges and Sustainable Technological Revolution”, August 28 – September 01, 2023, Alicante, Spain.

- RSA International Hour, "Spain: Spatial Analysis for Environmental Research.", February 15, 2023, Online.
- XLVII Reunión de Estudios Regionales, Universidad de Granada, October 19-22, 2022, Granada, Spain.
- I Congreso de Eficiencia y Productividad, Universidad de Extremadura, September 15–16, 2022, Badajoz, Spain.
- XXIII Conference on International Economics - Jornadas de Economía Internacional, June 16-17, 2022, Málaga, Spain.
- XLVI Reunión de Estudios Regionales, Universidad Autónoma de Madrid, November 24–26, 2021, Madrid, Spain.
- XLV Reunión de Estudios Regionales, Universitat Jaume I, November 20--22, 2019, Castellón, Spain.
- 2019 Barcelona Workshop on Regional and Urban Economics - VII JRC Regional Modelling Workshop, "Regional economic modelling and policy impact assessment", October 24–25, 2019. Barcelona, Spain.
- 59th ERSA Congress "Cities, regions and digital transformations: Opportunities, risks and challenges", August 27--30, 2019, Lyon, France.
- 20th Conference on International Economics, June 27--28th, 2019, Granada, Spain.
- XLIV Reunión de Estudios Regionales, Universidad de Valencia, November 21--23, 2018, Valencia, Spain
- 58th ERSA Congress "Places for People: Innovative, Inclusive and liveable Regions", August 28--31, 2018, Cork, Ireland
- 29th European Conference on Operational Research, Valencia 8--11, July, 2018.
- VIII Congreso de Eficiencia y Productividad. Universidad de Córdoba, May 10-11, 2018, Córdoba, Spain.
- XLIII Reunión de Estudios Regionales. Universidad Pablo de Olavide, November 16-17, 2017, Seville, Spain.
- Seminar at Center of Operations Research (CIO). Universidad Miguel Hernandez de Elche (UMH), April 14, 2016, Elche, Spain.
- Seminar at Center of Operations Research (CIO). Universidad Miguel Hernandez de Elche (UMH), April 4, 2016, Elche, Spain.
- RES PhD Meetings 2016, January 8--9, 2016, London, UK.
- 40 Simposio de la Asociación Española de Economía-Spanish Economic Association (SAEe), December 10--12, 2015, Girona, Spain.

- 62nd Annual North American Meetings of the Regional Science Association International, November 11--14, 2015, Portland, United States.
- 55th ERSA Congress: "World Renaissance: Changing roles for people and places", August 25--28, 2015, Lisbon, Portugal.
- III Workshop on Urban Economics, June 9--10, 2014, Barcelona, Spain.
- X Jornadas sobre Integración Económica, November 28--29, 2013, Castellón, Spain.
- 8th Meeting of the Urban Economics Association at the 60th Annual North American Meetings of the Regional Science Association International, November 13--16, 2013, Atlanta, United States.
- 6th Seminar Jean Paelinck, October 18--19, 2013, Madrid, Spain.
- IX Jornadas sobre Integración Económica, November 29--30, 2012, Valencia, Spain.
- Seminar in the Department of Economics at New York University (NYU), November 12, 2012, New York, United States
- 59th Annual North American Meetings of the Regional Science Association International, November 7--10, 2012, Ottawa, Canada.
- 52nd ERSA Congress: "Regions in Motion: Breaking the Path", August 21--25, 2012, Bratislava, Slovakia

## RESEARCH PROJECTS

### As principal researchers

- **Improving Environmental Efficiency for More Sustainable European Regions: New Data and Empirical Evidence.** *PID2022-138212NA-I00*. Spanish Ministry of Science and Innovation. September 2023 - August 2027. Funding: 55.625,00€.
- **Heterogeneous Firms General Equilibrium Model (HETFIGE)**, Exploratory Research Program of the European Commission, Joint Research Center (JRC), January 2018 - December 2019.

### As researchers

- **Atracción de actividades económicas innovadoras y creadoras de trabajo en Madrid**, Consejería de Ciencia, Universidad e Innovación de la Comunidad de Madrid. January 2020 - December 2022.

- **Macro-economic modelling: regional and sectoral analysis (VI) (RHOMOLO VI)**, European Commission, Directorate-General for Regional and Urban Policy. January 2017 - June 2020.
- **Infraestructuras, Crecimiento Económico y Productividad**, 3ª convocatoria de Proyectos de Cooperación Interuniversitaria UAM - Banco Santander con Estados Unidos, July 2015 - December 2016.
- **Efectos macroeconómicos de la integración de Estados Unidos en los acuerdos de libre comercio'**, 2ª convocatoria de Proyectos de Cooperación Interuniversitaria UAM - Banco Santander con Estados Unidos, July 2013 - December 2014.
- **Comercio Interregional e Internacional de Bienes y Servicios en España y la U.E.: Fundamentos Teóricos y Contrastación Empírica en el Contexto de la Nueva Economía Geográfica**, Ministerio de Educación y Ciencia, January 2011 - December 2013. MEC (proyectos I+D+i): ECO2010-21643.
- **Modelización espacial aplicada al movimiento de mercancías y personas en el ámbito internacional e interregional español**, Consejería de Educación, Comunidad de Madrid, January 2008 - June 2012. CAM (programas de actividades I+D+i, IV PRICIT): S2007/HUM/0467.

#### **COURSE RECEIVED**

- **Local Projection Methods for Time Series and Panel Data** (2022). Centro de Estudios Monetarios y Financieros (CEMFI) Summer School, Spain.
- **Spatial Econometrics Advanced Institute 2021**. (2021). Spatial Econometrics Association. Online. 65h.
- **18th Workshop in Economic Modeling (WEM): International Trade Policy Analysis using GTAPinGAMS and GAMS/MPSGE** (2019). Universidad de Las Palmas de Gran Canaria, Spain. 35h.
- **Cities, Growth and Climate Change: Liveable Cities** (2018). LSE Custom Programmes, Fundación Ramón Areces.
- **The Measurement of Firm's Efficiency and Productivity** (2018). Advanced Courses in Economics. Universidad Autónoma de Madrid. 35h.
- **Introduction to Bayesian Econometrics** (2016). Universidad de Oviedo, Spain. 16.5h.
- **Geographical Information Systems: ARC/GIS (Sistemas de Información Geográfica: ARC/GIS)** (2015). Universidad Complutense de Madrid, Spain. 75h.
- **Microeconometrics: Discrete Choice and Panel Data Model** (2015). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain.

- **Spatial Econometrics with Applications in GeoDaSpace and R** (2014). Universidad Autónoma de Madrid, Spain. 18h.
- **Panel Data Models with STATA** (2013). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain. 16h.
- **Cities, Productivity, and Migration** (2013). Centro de Estudios Monetarios y Financieros (CEMFI) Summer School, Spain.
- **Search Models in Labor Markets and Urban Economics** (2012). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain. 12h.
- **Spatial Regression Models with MATLAB** (2012). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain. 20h.
- **DSGE Models with MATLAB and DYNARE** (2011). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain. 20h.
- **Panel Data Models with STATA** (2011). Advanced Courses in Economics. Universidad Autónoma de Madrid, Spain. 20h.
- **Micro-structure of Trade: Theory and Evidence** (2011). Centro de Estudios Monetarios y Financieros (CEMFI) Summer School, Spain.

## **REFEREEING ACTIVITIES IN JOURNALS**

Regional Studies (x2), Structural Change and Economic Dynamics, Spatial Economic Analysis; Papers in Regional Science; Economic Analysis and Policy; Journal of Productivity Analysis; Journal of Institutional Economics; The World Economy (x2); Economic Modelling; Science and Public Policy; The Journal of Technology Transfer (x2); Omega (x2); International Journal of Hospitality Management; Utilities Policy; Transportation..

Investigaciones Regionales - Journal of Regional Research (x3); The International Trade Journal; International Economics; Cogent Economics and Finance; The Journal of International Trade & Economic Development; Cuadernos de Economía - Spanish Journal of Economics and Finance (x3); Economics and Business Letters; Revue Revue d'Économie Régionale & Urbaine (RERU) (x2); Boletín de Estadística e Investigación Operativa (BEIO);

## **NON-ACADEMIC WORK EXPERIENCE**

### **Banco Cooperativo Español — 2009**

Department of Credit Risk Analysis. Eight month fellowship through Programa de Cooperación Educativa UAM.

## **LANGUAGES**

**Spanish:** Mother tongue.

**English:** Fluent comprehension, reading, writing and speaking. Experience teaching in English.

## **IT SKILLS**

**Scientific Software:** Stata, Julia, R, Python, MATLAB, GAMS

**Geographical Information Systems:** QGIS, ArcGIS

**Document preparation system:** LaTeX