

Short CV

Javier Barbero

Contact details

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Education

2016: PhD in Economics, Universidad Autónoma de Madrid, Spain.

2012: Master in International Economics, Universidad Autónoma de Madrid, Spain

2010: Bachelor of Economics, Universidad Autónoma de Madrid, Spain

Professional Positions

2022- : Lecturer in Economics, Department of Economics, Universidad Autónoma de Madrid.

2016-2022: Economic Analyst, European Commission, Joint Research Centre (JRC)

Research Interests / Research Profile

Spatial Economics, Regional Economics, Growth, Innovation, Institutions, International Economics, Efficiency and Productivity analysis.

Publications

Articles in peer-reviewed journals

Barbero, J.; Rodríguez-Crespo, E.; 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.

Barbero, J.; Rodríguez-Crespo, E.; Suárez-Varela, M.; Velasco, P. (2024). "Climate clubs and firm environmental performance: A regional institutional perspective". *Economic Analysis and Policy*. 84: 663-678.

Gianelle, C.; Guzzo, F.; **Barbero, J.**; Salotti, S. (2024). "The governance of regional innovation policy and its economic implications". *The Annals of Regional Science*. 72: 1231–1254.

Zofío, J.L.; Aparicio, J.; **Barbero, J.**; Zabala-Iturriagagoitia, J.M. (2024). "Benchmarking performance through efficiency analysis trees: Improvement strategies for colombian higher education institutions". *Socio-Economic Planning Sciences*. 92(101845): 1-15.

Barbero, J.; Diukanova, O.; Gianelle, C.; Salotti, S.; Santoalha, A. (2024). "Technologically related diversification: One size does not fit all European regions". *Research Policy*, 53(3) (104973): 1-13.

Barbero, J.; Christou, T.; Crucitti, F.; García Rodríguez, A.; Lazarou N.J.; Monfort, P.; Salotti, S. (2024). "A spatial macroeconomic analysis of the equity-efficiency trade-off of the European cohesion policy". *Spatial Economic Analysis*, 19 (3): 394-410.

Barbero, J.; Conte, A.; Crucitti, F.; Lazarou, N.J.; Sakkas, S.; and Salotti, S. (2024). "The impact of the recovery fund on EU regions: a spatial general equilibrium analysis". *Regional Studies*. 58(2): 336-349.

Santos, A.; **Barbero, J.**; Salotti, S.; Diukanova, O.; Pontikakis, D. (2023). "On the road to regional 'Competitive Environmental Sustainability': the role of the European structural funds". *Industry and Innovation*. 30(7): 801-823.

Barbero, J., & Zofío, J. L. (2023). "The measurement of profit, profitability, cost and revenue efficiency through data envelopment analysis: A comparison of models using BenchmarkingEconomicEfficiency.jl". *Socio-Economic Planning Sciences*, 89(101656): 1-18.

Marques Santos, A.; **Barbero, J.**; Salotti, S.; Conte, A. (2023). "Job creation and destruction in the digital age: Assessing heterogeneous effects across European Union countries". *Economic Modelling*. 126(106405): 1-12.

Persyn, D.; **Barbero, J.**; Díaz-Lanchas, J.; Lecca, P.; Mandras, G.; Salotti, S. (2023). "The ripple effects of large-scale transport infrastructure investment". *Journal of Regional Science*. 63(4): 755-792.

Zofío, J. L.; Aparicio, J.; **Barbero, J.**; Zabala-Iturriagagoitia, J.M.I (2023). "The influence of bottlenecks on innovation systems performance: Put the slowest climber first". *Technological Forecasting and Social Change*. 193(122607): 1-15.

Barbero, J.; Christensen, M.; Conte, A.; Lecca, P.; Rodríguez-Pose, A.; and Salotti S. (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.

Barbero, J.; and Rodríguez-Crespo, E. (2022). "Technological, institutional, and geographical peripheries: regional development and risk of poverty in the European regions". *The Annals of Regional Science*, 69, 311-332.

Barbero, J.; Diukanova, O.; Gianelle, C.; Salotti, S.; Santoalha, A. (2022). "Economic modelling to evaluate Smart Specialisation: an analysis of research and innovation targets in Southern Europe". *Regional Studies*, 56(9), 1496-1509.

Persyn, D.; Díaz-Lanchas, J.; **Barbero, J.** (2022). "Estimating road transport costs between and within European Union regions". *Transport Policy*, 124, 33-42.

Barbero, J.; Zabala-Iturriagagoitia, J. M.; Zofío, J. L. (2021). "Is more always better? On the relevance of decreasing returns to scale on innovation". *Technovation*, Volume 107 (102314), 1-15.

Barbero, J.; Mandras, G.; Rodríguez-Crespo, E.; Rodríguez-Pose, A. (2021). "Quality of government and regional trade: Evidence from European Union regions". *Regional Studies*. 55(7), 1240-1251.

Mieszkowski, K.; **Barbero, J.** (2021). "Territorial patterns of R&D+I grants supporting Smart Specialisation projects funded from the ESIF in Poland". *Regional Studies*, 55(3), 390-401.

Abeliansky, A. L.; **Barbero, J.**; Rodríguez-Crespo, E. (2021). "ICTs quality and quantity and the margins of trade". *Telecommunications Policy*, 45 (1), 102056.

Balk, B. M.; **Barbero, J.**; Zofío, J. L. (2020). "A toolbox for calculating and decomposing Total Factor Productivity indices". *Computers & Operations Research*, 115 (104853), 1-23.

Álvarez, I. C.; **Barbero, J.**; Zofío, J. L. (2020), "A Data Envelopment Analysis Toolbox for MATLAB", *Journal of Statistical Software*, 91(3), 1-49.

Barbero, J.; Rodríguez-Crespo, E., (2018), "The effect of broadband on European Union trade: A regional spatial approach", *The World Economy*, 41 (11), 2895-2913.

Edquist, C; Zabala-Iturriagagoitia, J. M.; **Barbero, J.**; Zofío, J. L., (2018), "On the meaning of innovation performance: Is the synthetic indicator of the Innovation Union Scoreboard flawed?", *Research Evaluation*, 27, 196-211.

Barbero, J.; Behrens, K.; Zofío, J. L., (2018), "Industry location and wages: The role of market size and accessibility in trading networks", *Regional Science and Urban Economics*, 71, 1-24

Álvarez, I. C., **Barbero, J.**, Rodríguez-Pose, A., Zofío, J. L., (2018), "Does Institutional Quality Matter for Trade? Institutional Conditions in a Sectoral Trade Framework", *World Development*, 103, 72-87.

Aparicio, J., **Barbero, J.**, Kapelko, M., Pastor, J. T. and Zofío, J. L., (2017), "Testing the consistency and feasibility of the standard Malmquist-Luenberger index: Environmental productivity in world air emissions", *Journal of Environmental Management*, 196, 148-160.

Álvarez, I. C., **Barbero, J.** and Zofío, J. L., (2017), "A Panel Data Toolbox for MATLAB", *Journal of Statistical Software*, 76(6), 1-27.

Álvarez, I. C., **Barbero, J.**, and Zofío, J. L. (2016), "A spatial autoregressive panel model to analyze road network spillovers on production", *Transportation Research Part A: Policy and Practice*, 93(C), 83-92.

Barbero, J. and Zofío, J. L (2016), "The Multiregional Core-periphery Model: The Role of the Spatial Topology". *Networks and Spatial Economics*, 16(2), 469–496.

Álvarez, I. C. and **Barbero, J.**, (2016), "The Public Sector and Convergence with Spatial Interdependence: Empirical Evidence from Spain", *Applied Economics*, 48(24), 2238-2252.

Recent Research Projects

Title: *Digitalización, innovación, tecnología, automatización y atracción de empleo en la Comunidad de Madrid* (PHS-2024/PH-HUM-530)

Sponsor: Comunidad de Madrid

Period: 01/01/2025 - 31/12/2027.

Principal Researcher: Inmaculada C. Álvarez

Title: Improving Environmental Efficiency for More Sustainable European Regions: New Data and Empirical Evidence. (PID2022-138212NA-I00)

Sponsor: Spanish Ministry of Science and Innovation

Period: 01/09/2023 – 30/08/2027

Principal Researcher: **Javier Barbero** and Ernesto Rodríguez-Crespo

Title: Atracción de Actividades Económicas y Creadoras de Trabajo en Madrid (INNJOBMAD-CM, H2019/HUM-5761).

Sponsor: Comunidad de Madrid

Period: 01/01/2020 - 31/12/2022.

Principal Researcher: Inmaculada C. Álvarez