

**Short CV****Luis Orea****Contact details**

**Address:** Department of Economics, School of Economics and Business, University of Oviedo, 33071 Oviedo, Spain.

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**Education**

2002: Ph.D in Economics. University of Oviedo, Spain.

1994: Master in Applied Economics, University of Oviedo, Spain.

1992: Bachelor of Economic, University of Oviedo, Spain.

**Professional Positions**

2016- : Full Professor (CU), Department of Economics, and University of Oviedo.

2011- : Director of the Oviedo Efficiency Group (OEG), Department of Economics, and University of Oviedo.

2003-2015: Associate Professor (*TU*), Department of Economics, University of Oviedo.

2000-2003: Associate Professor (*TU Interino*), Department of Economics, University of Oviedo.

1992-2000: Assistant Professor, Department of Economics, University of Oviedo.

**Research Interests / Research Profile**

Efficiency and productivity analysis, econometric modelling, agricultural economics, energy economics, regulation and competition, spatial economics.

**Publications***Articles in peer-reviewed journals*

**Orea, L.** and Álvarez, I (2022), "How effective has the Spanish lockdown been to battle COVID-19? A spatial analysis of the coronavirus propagation across provinces", *Health Economics* 31, 154-173.

Argüelles, P. and **Orea, L.** (2021), "Managing power supply interruptions: a bottom-up spatial (frontier) model with an application to a Spanish electricity network", *Empirical Economics*, 60, 2867-2896.

**Orea, L.** and Álvarez, I (2019), "A new stochastic frontier model with cross-sectional effects in both noise and inefficiency terms", *Journal of Econometrics*, 213(2), 556-577.

Rodríguez-Alvarez, A., **Orea, L.** Jamasb, T. (2019), "Fuel poverty and Well-Being: A consumer theory and stochastic frontier approach", *Energy Policy*, 131, 22–32.

Gude, A. Álvarez, I and **Orea, L.**, (2018), "Heterogeneous spillovers among Spanish provinces: A generalized spatial stochastic frontier model", *Journal of Productivity Analysis*, 50(3), 155-173.

**Orea, L.**, Álvarez, I. and Jamasb, T. (2018), "A Spatial Stochastic Frontier Model with Omitted Variables: Electricity Distribution in Norway", *Energy Journal*, 39(3), 93-116.

**Orea, L.** and Steinbuks, J. (2018), "Estimating Market Power in Homogenous Product Markets Using a Composed Error Model: Application to the California Electricity Market", *Economic Inquiry*, 56(2), 1296–1321.

**Orea, L.** and Wall, A. (2017), "A Parametric Approach to Estimating Eco-Efficiency", *Journal of Agricultural Economics*, 68(3), 901–907.

Gutierrez-Navratil, F., V. Fernández Blanco, **L. Orea**, J. Prieto (2017), "Do movie Majors really collude? Indirect evidence from release schedules", *Hacienda Pública Española/Review of Public Economics* (special issue on "Cultural Economics"), 221(2), 9-31.

**Orea, L.**, and Jamasb, T. (2017), "Regulating Heterogeneous Utilities: A New Latent Class Approach with Application to the Norwegian Electricity Distribution Networks", *Energy Journal*, 38(4), 102-127.

Llorca, M, **Orea, L.**, and, Pollitt, M. (2016), "Efficiency and environmental factors in the US electricity transmission industry Energy Economics", *Energy Economics*, 55, 234-246.

**Orea, L.**, Llorca, M. and Filippini, M. (2015), "A new approach to measuring the rebound effect associated to energy efficiency improvements: An application to the US residential energy demand", *Energy Economics*, 49, 599-609.

**Orea, L.** Pérez, J.A. and Roibás, D. (2015), "Evaluating the double effect of land fragmentation on technology choice and dairy farm productivity: A latent class model approach", *Land Use Policy*, 45, 189–198.

Llorca, M., **Orea, L.** Pollitt, M. (2014), "Using the latent class approach to cluster firms in benchmarking: An application to the US electricity transmission industry", *Operations Research Perspectives*, 1(1), 6-17.

Filippini, M. **L. Orea** (2014), "Applications of the stochastic frontier approach in Energy Economics", *Economics and Business Letters* 3(1), 35-42, 2014.

Gutierrez-Navratil, F., V. Fernandez-Blanco, **L. Orea**, and J. Prieto-Rodriguez (2014). How do your rivals' releasing dates affect your box office?, *Journal of Cultural Economics*, 38(1), 71-84.

Meier, H., T. Jamasb, **L. Orea** (2013), "Necessity or Luxury Good? Household Energy Spending and Income in Britain 1991-2007", *Energy Journal* 34(4), 109-112.

Fernández Blanco, V., **L. Orea**, J. Prieto (2013), "Endogeneity and measurement errors when estimating demand functions with average prices: an example from the movie market", *Empirical Economics* 44, 1477-1496.

Jamasb, T., **L. Orea** and M. Pollitt (2012) "Estimating marginal cost of quality improvements: the case of the UK electricity distribution companies", *Energy Economics* 34(5), 1498-1506.

**Orea, L.** (2012) "Entry deterrence through regional regulation and strict licensing policy: an analysis of the large retail establishments in Spain", *Oxford Economic Papers* 64, 539-562.

**Orea, L.** and A. Wall. (2012), "Productivity and Producer Welfare in the Presence of Production Risk", *Journal of Agricultural Economics* 63 (1), 102–118.

**Orea, L.** (2010), "The effect of legal barriers to entry in the Spanish retail market: a local market approach", *Hacienda Pública Española* 193, 49-73.

**Orea, L.**, V. Fernández Blanco, J. Prieto (2009) "Analyzing consumers' heterogeneity and self-reported tastes: A latent class model applied to identify differences in demand", *Journal of Economic Psychology* 30, 622-633.

Kumbhakar, S., **L. Orea**, A. Rodríguez-Álvarez and M. Tsionas (2007) "Do we have to Estimate an Input or an Output Distance Function? an Application of the Mixture Approach to European Railways", *Journal of Productivity Analysis* 27(2), 87-100.

Álvarez, A., C. Arias, **L. Orea** (2006), "Econometric testing of spatial productivity spillovers from public capital", *Hacienda Pública Española*, 178, 9-22.

Álvarez, A., C. Arias, **L. Orea**, (2006) "Explaining differences in milk quota values: the role of economic efficiency", *American Journal of Agricultural Economics* 178, 9-23.

Álvarez, A., C. Amsler, **L. Orea** and P. Schmidt (2006), "Interpreting and Testing the Scaling Property in Models where Inefficiency Depends on Firm Characteristics", *Journal of Productivity Analysis* 25(3), 201-212.

Han, C., L. **Orea** and P. Schmidt, (2005) "Estimation of a Panel Data Model with Parametric Temporal Variation in Individual Effects", *Journal of Econometrics* 126, 241-267.

**Orea, L.**, A. Álvarez and C. Morrison-Paul (2005) "Modelling and Measuring Production Processes for a Multi-Species Fishery", *Natural Resource Modelling* 18(2), 183-214.

**Orea, L.** and S. Kumbhakar (2004), "Measuring Efficiency using a Latent Class Stochastic Frontier Model", *Empirical Economics* 29, 169-183.

**Orea, L.**, Roibás, D. and A. Wall, (2004). "Choosing the Technical Efficiency Orientation to Analyse Firms' Technology. A Model Selection Test Approach", *Journal of Productivity Analysis* 22(1), 51-71.

Álvarez, A., L. **Orea**, J. Fernández (2003), "La productividad de las infraestructuras en España", *Papeles de Economía Española* 95, 125-136.

Álvarez, A., L. **Orea** (2002), "Eficiencia técnica en pesquerías multiespecie: una aproximación primal", *Economía Agraria y Recursos Naturales* 2(1), 5-20.

Cuesta, R.A. L. **Orea** (2002), "Mergers and Technical Efficiency in Spanish Savings Banks: A Stochastic Distance Function approach", *Journal of Banking and Finance* 26, 2231-2247.

**Orea, L.**, (2002) "A Parametric Decomposition of a Generalized Malmquist Productivity Index", *Journal of Productivity Analysis*, 18, 5-22.

#### Other articles

Ansuategui, A., I. Galarraga and L. **Orea** (2019) "Analysis of cost-effectiveness in the provision of air navigation services at functional air blocks", *Competition and Regulation in Network Industries*, forthcoming ([doi.org/10.1177/1783591719870096](https://doi.org/10.1177/1783591719870096)).

**Orea, L.**, T. Jamasb, and C. Growitsch (2015), "Using Supervised Environmental Composites in Production and Efficiency Analyses: An Application to Norwegian Electricity Networks", *Competition and Regulation in Network Industries*, 16(3), 260-288.

#### Chapters in books

**Orea, L.** and Álvarez, I. (2020): "Production Economics in Spatial Analysis", in Ray, S.C., Chambers, R. and Kumbhakar, S. (eds.) *Handbook of Production Economics*, Volume 2., Springer. <https://doi.org/10.1007/978-981-10-3450-3>

**Orea, L.**, Álvarez, I. and Perez, J.A. (2020): "The impact of land consolidation on livestock production in Asturias' parishes: a spatial production analysis", in Aparicio, J., Lovell, C.A.K., Pastor, J. and Zhu, J. (eds.) *Advances in Efficiency and Productivity II*, Springer Nature's International Series in Operations Research & Management Science: NY, pp. 239-259.

**Orea, L.**, Álvarez, I. and Serven, L. (2020): "A two-level top-down decomposition of aggregate productivity growth: the role of infrastructure", in Aparicio, J., Lovell, C.A.K., Pastor, J. and Zhu, J. (eds.) *Advances in Efficiency and Productivity II*, Springer Nature's International Series in Operations Research & Management Science: NY, pp. 173-192.

**Orea, L.** (2020), "The Measurement of Firms' Efficiency using Parametric Techniques", Chapter 6, in *Data Science and Productivity Analytics*, Charles, Vincent, Aparicio, Juan, Zhu, Joe (Eds.) (pp. 161-199), Springer (Springer International Series in Operations Research and Management Sciences).

**Orea, L.** and Zofío, JL (2019), "Common Methodological Choices in Non-Parametric and Parametric Analyses of Firms' Performance", in *The Palgrave Handbook of Economic Performance Analysis* (pp. 419-484). Palgrave Macmillan.

**Orea, L.** and Wall, A. (2017), "Measuring Eco-Efficiency Using the Stochastic Frontier Analysis Approach", in *Advances in Efficiency and Productivity*, in Aparicio, J., Lovell, CAK, Pastor, J. (eds.), Chapter 12, pp. 275-297, Springer.

**Orea, L.** (2013), "El efecto de la regulación del comercio minorista sobre la estructura y precios de las grandes superficies en España", in *Regulación y competencia: en busca de efectos no deseados*, Autoritat Catalana de la Competència (Ed), 127-136.

Kumbhakar, S., **L. Orea**, A. Rodríguez (2009) "Explaining occupancy rates in the European railways: a reduced-form approach", in *Railway Transportation Policies, Technology and Perspectives*, Nova Science Publishers, 63-86.

**Orea, L.**, V. Fernández Blanco y J. Prieto (2007), "¿Se coordinan (más) las grandes distribuidoras de cines en España? (Comentario a La Resolución del Tribunal de Defensa de la Competencia de 10 de Mayo de 2006, Expte. 588/05, Distribuidores de Cine)", *Anuario de la Competencia*, 329-349, Marcial Pons, Fundación ICO.

**Orea, L.** (2001) "Medición y descomposición de la productividad", *La medición de la eficiencia y la productividad*, A. Álvarez (ed.), 77-93, Pirámide, Madrid.

#### Books

**Orea, L.**, Pérez, J.A., Roibás, D. and Wall, A. (2015) *Comportamiento medioambiental y competitividad de las explotaciones lecheras asturianas*, Ediciones de la Universidad de Oviedo, ISBN: ISBN: 978-84-16343-29-4.

#### Associate Editor

Empirical Economics (since 2018)  
Journal of Productivity Analysis (since 2013)

#### Guest Editors in Special Issues

Pastor, J., J. Aparicio, **L. Orea**, (eds.), (2013), "Special Issue in Honour of Knox Lovell", *Journal of Productivity Analysis*, 40(3), 251-255.

Álvarez, A, R. Cuesta y **L. Orea** (eds.), (2004), "Characterizing Local and Global Technologies", *Journal of Productivity Analysis*, 21(1).

#### Recent Research Projects

*Title:* Estrategias para garantizar la sostenibilidad económica, medioambiental y social de productores y empresas agroalimentarias: eficiencia, valor añadido y control de gestión

*Sponsor:* Ministerio de Ciencia, Innovación y Universidades, Spain.

*Period:* August 2022 - September 2025.

*Principal Researcher:* Alan Wall.

*Title:* COMENSAL.

*Sponsor:* Consejería de Ciencia, Innovación y Universidad del Principado de Asturias

*Period:* 01/01/2022 - 31/12/2023.

*Principal Researcher:* Cecilia Díaz Méndez

*Title:* Análisis de la cadena de valor de la DOP sidra de Asturias.

*Sponsor:* Consejo Regulador DOP Sidra de Asturias

*Period:* 11/01/2022 - 20/08/2022.

*Principal Researcher:* José Antonio Pérez Méndez

*Title:* Inter-sectoral and regional effects of institutional responses to the COVID-19 epidemic.

*Sponsor:* Autonomous Government of Madrid

Period: 01/01/2021 - 31/12/2023.

Principal Researcher: Inmaculada C. Álvarez

Title: Attraction of economic and job- creative activities in Madrid.

Sponsor: Autonomous Government of Madrid

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

Principal Researcher: Inmaculada C. Álvarez

Title: Strategies for guaranteeing the survival and sustainability of agricultural production: investment, organic production and land concentration.

Sponsor: Spanish Ministry of Economy, Industry and Competitiveness

Period, December 31, 2017 – December 31, 2020

Principal Researcher: Alan Wall

Title: Infrastructures, Economic Growth and Productivity

Sponsor: Centro de Estudios de América Latina, Universidad Autónoma de Madrid

Period: July 1, 2017 – December 31, 2018

Principal Researcher: José Luis Zofío Prieto

Title: Oviedo Efficiency Group.

Sponsor: Ministry of Economics and Employment of Principality of Asturias, FEDER Funds

Period, December 31, 2014 – December 31, 2017

Principal Researcher: Luis Orea

Title: Sustainability and competitiveness of the Spanish dairy farms and their link to the rural environment within the new agricultural policy.

Sponsor: Spanish Ministry of Science and Innovation

Period, October, 2014 - October, 2017

Principal Researcher: Alan Wall

Title: Productive and environmental performance of dairy farms: determinants, type of holdings and compatibility of economic and environmental objectives.

Sponsor: Spanish Ministry of Science and Innovation.

Period, January, 2010 – December, 2013.

Principal Researcher: Luis Orea

Title: New models to measure regional productivity growth and its determinants

Sponsor: Spanish Ministry of Science and Innovation.

Period: October 1, 2007 – September 30, 2010

Principal Researcher: Antonio Álvarez Pinilla