

**Curriculum Vitae**  
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**Primary fields**

Industrial Organization, Applied Microeconomics, Microeconometrics.

**Education**

1987: Ph.D. in Economics, UNED, Madrid, Spain.  
1982: BSc in Economics, Universidad Complutense de Madrid, Spain.

**Professional appointments**

2022-2023: Teaching PhD Industrial Organization and PhD Microeconomics, Department of Economics, Northeastern University.

2007- : Senior Academic Researcher and Senior Lecturer, Department of Economics, Boston University (Lecturer through 2014).

2000-2009: Associate Professor with tenure, Department of Economics, Universidad Carlos III de Madrid (Visiting Professor through 2004).

1987-1993: Associate Professor with tenure, Department of Economics, UNED (Madrid).

1984-2000: Director PIE-FEP (Programa de Investigaciones Económicas-Fundación Empresa Pública), Ministry of Industry, Madrid (Research Fellow through 1989, Subdirector through 1995).

**Other academic appointments**

2022- : Research Associate of ZEW (*Leibniz Centre for European Economic Research*), Mannheim, Germany.

2023: Scientific Committee, XXXVII *Jornadas de Economía Industrial*, Spain.

2006- : Research Fellow, CEPR (*Centre for Economic Policy Research*).

2016-2020: Member of the Program Committee of the *Annual International Industrial Organization Conference*, USA.

2012-2013, 2016-2017: External Scientific Adviser for the *Inter American Development Bank*.

2005, 2008, 2013, 2015 and 2016: Member of the Scientific Committee for the ZEW/MaCCI *Conferences on the Economics of Innovation and Patenting*.

2006-2007: Founder and Director, *School of the Economics of Innovation Zvi Griliches*, Universidad Internacional Menendez Pelayo, Spain.

2004-2005: Visiting Scholar, Department of Economics, *Harvard university*.

2003-2006: Board of Directors, ESSID (*European Summer School on Industrial Dynamics*).

1999-2004: Executive Committee, EARIE (*European Association for Research in Industrial Economics*). Chairman of the Local Organizing Committee of the 29<sup>th</sup> Conference (2002).

1996-1999: Organizing Committee, *Jornadas de Economía Industrial*, Spain.

1988-1989: Visiting Scholar, Nuffiel College, *University of Oxford*.

### **Relevant research appointments:**

2005-2009: Coordinator of the group for the development of a firms' innovation panel data base. INE (Statistical Office), COTEC and FECYT.

1990-2000: Responsible for the design and implementation of the annual survey *Encuesta sobre Estrategias Empresariales* (ESEE), panel data from 2000 Spanish manufacturing firms, Ministry of Industry (<https://www.fundacionsepi.es/investigacion/esee/en/spresentacion.asp>). More than 250 published refereed articles in English use this data base.

### **Research grants awarded**

Principal Investigator of the USDA/NIFA-AFRI award for collaborative research BU/UConn (R.Lopez), New insights into US food manufacturing productivity: implications for employment and firm performance, 2021-2024.

Principal Investigator of the NSF grant for collaborative research BU/Harvard University (U.Doraszelski), Measuring the Bias of Technological Change, 2009-2012.

Spanish DGI projects Productivity, Innovation and competition: applications with panel microdata, and Productivity, Innovation and firm behavior: applications with panel microdata, PI J.C. Fariñas, 2005-2007 and 2008-2010 respectively.

Principal Investigator of the European research project (European Commission) Innovation and Employment in European Firms: Microeconomic Evidence, coordinated by Universidad Carlos III with the participation of CREST (France), IFS (United Kingdom) and ZEW (Germany), 2002-2005.

Principal Investigator of the Spanish research projects (MCYT) Structure, behavior and performance of manufacturing firms. Industrial economics applications with panel microdata (1997-2000) and Innovation, competition and firms' strategies. Industrial economics applications with panel microdata (2000-03).

**All Google citations: 5537**

**Google citations since 2019: 1910**

**REPEC percentile: 5%**

## **Publications and work in progress in English**

### ***Articles:***

Markups in US food manufacturing accounting for non-neutral productivity, with R. Lopez, *Journal of Agricultural Economics*, March 2024.

Measuring the bias of technological change, with U. Doraszelski, *Journal of Political Economy*, 126, 1027-1084, 2018.

Disentangling the effects of process and product innovation on cost and demand, with J. Mairesse, *Economics of Innovation and New Technology*, 26, 150-157, 2017.

Does innovation stimulate employment? A firm-level analysis using comparable micro data on four European countries, with R. Harrison, J. Mairesse and B. Peters, *International Journal of Industrial Organization*, 35, 29-43, 2014.

R&D and productivity: Estimating endogenous productivity, with U. Doraszelski, *The Review of Economic Studies*, 80, 1338-1383, 2013.

What explains the evolution of productivity and competitiveness? The innovation link, in Gemawhat, P. and X. Vives eds., *Competitiveness in Catalonia*, 2009.

Automobile demand, model cycle and age effects, with M.J. Moral, *Spanish Economic Review*, 9, 193-218, 2007 (best SER article prize 2006-2007).

Panel data estimates of the production function and the revenue function: What difference does it make? with J. Mairesse, *Scandinavian Journal of Economics*, 107, 651-672, 2005.

Barriers to innovation and subsidy effectiveness, with X. González and C. Pazó, *Rand Journal of Economics*, 36, 930-950, 2005.

Firms' age, process innovation and productivity growth, with E. Huergo, *International Journal of Industrial Organization*, 22, 541-559, 2004.

Entry, exit and productivity growth in Spanish manufacturing during the eighties, with A.Martin, *Spanish Economic Review*, 6, 211-226, 2004.

How does probability of process innovation change with firm age? with E. Huergo, *Small Business Economics*, 22, 193-207, 2004.

Modelling price competition across many markets. An application to the Spanish loans market, with J. Lorences, *European Economic Review*, 46, 93-115, 2002.

An empirical oligopoly model of a regulated market, with C. Pazó, *International Journal of Industrial Organization* 17, 25-57, 1999.

Input cost, capacity utilization and substitution in the short run, with M. Delgado and A. Martín-Marcos, *Spanish Economic Review* 3, 239-262, 1999.

***Work in progress:***

Technology and US manufacturing employment (Lessons from the estimation of a microeconomic multiproductivity production function), with Isabel Mullens, April 2024.

Input and output market power with non-neutral productivity: Livestock and labor in meatpacking, with A. Azzam and R. Lopez, December 2022.

The remarkable stability of the US manufacturing markups, June 2022.

Cost and product advantages: Evidence from Chinese manufacturing firms, with Heng Yin, May 2018.

Prices under Innovation: Evidence from manufacturing firms, with Shuheng Lin, August 2018.

***Working papers:***

Reexamining De Loecker and Warzyński (2012) method for estimating markups, with U. Doraszelski. CEPR Working Paper 16027, April 2021.

Using cost minimization to estimate markups, with U. Doraszelski. CEPR Working Paper 14114, June 2019.

Endogenous input quality variation as a help to estimate the production function, not a nuisance, June 2018.

Comparing productivity when products and inputs differ in quality: China manufacturing growth 1998-2013, with Heng Yin, May 2018.

Endogenous productivity and unobserved prices, with C. Guillard and J. Olivari, January 2018.

Innovation and welfare: Results from joint estimation of production and demand functions, with J. Mairesse. NBER Working Paper 16221, July 2010.

Identifying oligopoly pricing behaviour: Incumbents reaction to tariffs dismantling, with M.J. Moral, December 2008.

***Old work:***

Innovation and jobs: Evidence from manufacturing firms, with A. Garcia and C. Rodriguez, August 2005.

**Recent invited Lectures and Keynote speeches:**

Discussant of the paper "Productivity, Investment, and Wealth Dynamics under Financial Frictions", by Aguirre, A and M. Tapia. 13th BIS CCA Research Conference, Bank of Canada, Ottawa, October 2023.

A course on estimating production functions, University of Mannheim-ZEW, Mannheim, Germany, July 2023.

Productivity and profitability, North American Productivity Workshop, Miami Herbert Business School, Miami, June 12-15th 2023.

Separating productivity from demand heterogeneity, MEIDE Conference, Montevideo, Uruguay, November 2017.

Separating productivity from demand heterogeneity, Workshop on Structural Industrial Organization, Pontificia Universidad Javeriana, Bogota, October 2017.

Biased technological change and employment, 7th IRIMA Workshop, Brussels, June 2016.

Estimating endogenous productivity, XXX Jornadas de Economía Industrial, Alicante, September 2015.

Innovation and Employment, 6th ZEW/MaCCI Conference on the Economics of Innovation and Patenting, Mannheim, July 2015.

Innovation and Employment, Kiel Institute Summer School on Economic Policy, Kiel, June 2015.

Firm-level panel data collection. Two experiences: ESEE and PITEC, Course Impact Evaluation in Practice, Inter American Development Bank, Santiago de Chile, October 2014,.

The Impact on employment of the bias of technological change, Project WWW for Europe, WIFO, Viena, September 2014.

### **Some publications in Spanish**

#### ***Books and book chapters:***

Contributions on the Spanish economy and industry (4 books in co-authorship and 3 chapters).

#### ***Articles:***

More than 30 articles in Spanish scientific and professional journals.

### **Teaching**

Macroeconomics (Intermediate). Microeconomics (Intermediate, for managers, PhD). Industrial Organization (Intermediate, PhD). Regulation (Intermediate, PhD). Mathematical Statistics (Master). Econometrics, Microeconometrics (Master, PhD).

PhD courses taught at: *Northeastern University* (Boston), *Beijing Normal University* (China), *Universidad Carlos III* (Spain), *Universidad de Oviedo* (Spain), *Universidad del Rosario* (Colombia), *University of Southampton* (UK), *Universidad de Vigo* (Spain).

#### ***Teaching Awards***

NEU Family Award for Excellence in Teaching Economics, Department of Economics Boston University, 2013.

### **Advising**

#### ***Master advising:***

Isabel Mullens, 2021, The Fall of employment and the labor share in US manufacturing.

Hyun Soo Suh, 2020, Distorting instruments: Examining bias in production functions using GMM estimation.

***PhD advising and committees at BU:***

Ziyao Wang, 2024, Non-neutral technological change in Chinese manufacturing, Northeastern University.

Xiaoxi Zhao, 2021, Medical Loss Ratio regulation and insurer pricing.

21 committees 2008-2021.

***Medical PhD advising:***

Laia Jaumandreu, 2017, Spatial nonparametric structure-function relationship in glaucomas and healthy patients measured with OCT Spectralis and Humphrey perimetry, Universidad de Alcalá de Henares. Published in *Journal of Ophthalmology*, April 2018.

***Ph.D. theses supervised before BU:***

Main adviser of 10 PhD theses 1993-2016.

**Referee for:**

*Econometrica, American Economic Review, Review of Economic Studies, Quarterly Journal of Economics, Journal of Political Economy, Quantitative Economics, Review of Economics and Statistics, Rand Journal of Economics, International Economic Review, European Economic Review, American Economic Journal: Applied, Economic Journal, International Journal of Industrial Organization, Journal of Industrial Economics, Review of Industrial Organization, Management Science, Canadian Journal of Economics, Annales d'Economie et de Statistique, Journal of Applied Econometrics, Economic Enquiry, Oxford Economic Papers, Journal of Economic Surveys, Economics of Innovation and New Technology, Labour Economics, Regional Science and Urban Economics, Structural Change and Economic Dynamics, Industrial and Corporate Change, National Science Foundation (US), The British Academy (UK), Agence Nationale de la Recherche (France), SERIEs, Spanish Economic Review, Investigaciones Económicas, Revista de Economía Aplicada, Hacienda Pública, Historia Industrial.*