

**Curriculum Vitae**  
**Mark J. Roberts**

January 2014

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**Degrees:** Ph.D., University of Wisconsin, Economics, August 1980.  
M.A., University of Wisconsin, Economics, December 1978.  
A.B., Syracuse University, Economics and Journalism, June 1976.

**Professional Affiliations:**

***Permanent Academic***

Professor, The Pennsylvania State University, 1989-present  
Associate Professor, The Pennsylvania State University, 1985-1989  
Assistant Professor, The Pennsylvania State University, 1980-1985

***Visiting Academic***

Einaudi Institute for Economics and Finance, Rome, Italy, January-May 2009  
CORE, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, March 2009  
Carlos III University, Madrid, Spain, May 2008  
Central European University, Budapest, Hungary, May 2006  
New Economic School, Moscow, Russia, May-June 1995  
Nankai University, Tianjin, China, May 1988

***Other***

Director, PSU-Census Bureau Research Data Center, 2013-Present  
National Bureau of Economic Research, Research Associate, 1996-Present  
Centre for European Economic Research (ZEW), Research Associate, 2014-Present  
Federal Reserve Bank of Cleveland, Research Associate, Fall 2008, Fall 2010  
U.S. Census Bureau Research Fellow, 1985-1986 and 1992-1993

**Fields of Research Interest:** Applied Microeconomics, Industrial Organization

**Teaching Areas:**

***Undergraduate*** - Environmental Economics, Econometrics, Statistics, Industrial Organization  
***Graduate*** - Industrial Organization, Empirical Methods

**Awards:**

Undergraduate Teaching Award, Department of Economics, Fall 1996 (Introduction to Econometrics), Spring 2000 (Economics of the Corporation).  
Award for Distinction in the Social Sciences, Liberal Arts Society, The Pennsylvania State University, 1990

### ***Professional Activities:***

Board Member, The Industrial Organization Society, 2014-present.  
Program Committee Chairman, International Industrial Organization Conference, 2014-present  
Executive Committee, Conference on Research in Income and Wealth, 2001-present  
Member, Panel on Measuring Business Formation, Dynamics and Performance, National Research Council, 2004-2006  
American Economic Association, Census Advisory Committee, 2001-2006  
National Science Foundation Review Panel on Information Technology Research, 2004  
Editor, *International Journal of Industrial Organization*, 1993-1996  
Associate Editor, *International Journal of Industrial Organization*, 1989-1993  
Executive Committee, European Association for Research in Industrial Economics, 1996-2000  
Committee of Visitors, Economics Program, National Science Foundation, 1996  
National Science Foundation Review Panel in Economics, 1993-1995  
Member, Conference on Research in Income and Wealth, 1988-present

### ***Publications:***

#### ***Edited Volumes and Monograph:***

*Producer Dynamics: New Evidence from Micro Data*, with Timothy Dunne and J. Bradford Jensen, University of Chicago Press for the NBER (2009).

*What Makes Exports Boom*, with James R. Tybout, Directions in Development Series, The World Bank, (1996).

*Industrial Evolution in Developing Countries: Micro Patterns of Turnover, Productivity, and Market Structure* with James R. Tybout, Oxford University Press for the World Bank, (1996).

#### ***Articles in Journals and Books:***

“Entry, Exit, and the Determinants of Market Structure,” with Timothy Dunne, Shawn D. Klimek, and Daniel Yi Xu, *Rand Journal of Economics*, Vol. 44, No. 3, Fall 2013, pp. 462-487.

“Empirical Modeling of R&D Demand in a Dynamic Framework,” with Van Anh Vuong, *Applied Economic Perspectives and Policy*, Vol. 35, No.2 (June 2013), pp. 185-205..

“R&D Investment, Exporting, and Productivity Dynamics,” with Bee Yan Aw and Daniel Yi Xu, *American Economic Review*, Vol. 101, No. 4, (June 2011), pp. 1312-1344.

“The Dynamics of Market Structure and Market Size in Two Health Service Industries,” with Timothy Dunne, Shawn Klimek, and Yi Xu, in Timothy Dunne, J. Bradford Jensen, and Market J. Roberts (eds.), *Producer Dynamics: New Evidence from Micro Data*, University of Chicago Press, (2009).

“R&D Investment, Exporting, and the Evolution of Firm Productivity,” with Bee Yan Aw and Daniel Yi Xu, *American Economic Review Papers and Proceedings*, Vol. 98, No. 2 (May 2008), pp.451-456.

- “Market Entry Costs, Producer Heterogeneity, and Export Dynamics,” with Sanghamitra Das and James R. Tybout, *Econometrica*, Vol. 75, No. 3 (May 2007), pp. 837-873.
- “Export Market Participation, Investments in R&D and Worker Training, and the Evolution of Firm Productivity,” with Bee Yan Aw and Tor Winston, *The World Economy*, Vol. 30, Issue 1 (January 2007), pp. 83-104.
- “Exit from Regional Manufacturing Markets: The Role of Entrant Experience,” with Timothy Dunne and Shawn D. Klimek, *The International Journal of Industrial Organization*, Vol. 23, Issue 5-6 (June 2005), pp.399- 421.
- “Productivity, Output, and Failure: A Comparison of Taiwanese and Korean Manufacturers,” with BeeYan Aw and Sukkyun Chung, *The Economic Journal*, Vol. 113, Issue 491 (November 2003), pp. F485-510.
- “Firm-level Evidence on Productivity Differentials and Turnover in Taiwanese Manufacturing,” with Bee Yan Aw and Xiaomin Chen, *Journal of Development Economics*, Vol. 66, No. 1 (October 2001), pp.51-86.
- “Firm Heterogeneity and Export-Domestic Price Differentials: A Study of Taiwanese Electronics Products,” with Bee Yan Aw and Geeta Batra, *Journal of International Economics*, Vol. 54, No. 1 (June 2001), pp. 149-169. Reprinted in *SMEs in the Age of Globalization*, David Audretsch (ed.), Edward Elgar Publishing, Ltd., 2002.
- “Productivity and Turnover in the Export Market: Micro-Level Evidence from the Republic of Korea and Taiwan,” with Bee Yan Aw and Sukkyun Chung, *The World Bank Economic Review*, Vol. 14, No. 1 (January 2000), pp.65-90.
- “Output Price and Markup Dispersion in Producer Micro Data: The Roles of Producer Heterogeneity and Noise,” with Dylan Supina, in Michael R. Baye (ed.), *Advances in Applied Microeconomics*, Vol. 9, *Industrial Organization*, JAI Press, (2000), pp.1-36.
- “The Decision to Export in Colombia: An Empirical Model of Entry with Sunk Costs,” with James R. Tybout, *American Economic Review*, Vol. 87, No.4 (September 1997), pp.545-564.
- “The Long-Run Demands for Skilled and Unskilled Labor in the Colombian Manufacturing Sector,” with Emmanuel Skoufias, *The Review of Economics and Statistics*, Vol. 79, No. 2 (May 1997), pp.330-334.
- “Producer Turnover and Productivity Growth in Developing Countries,” with James R. Tybout, *World Bank Research Observer*, Vol. 12, No.1 (February 1997), pp. 1-18.
- “Output Price, Markups, and Producer Size,” with Dylan Supina, *European Economic Review Papers and Proceedings*, Vol. 40, Nos. 3/4 (April 1996), pp. 909-921.
- “Colombia, 1977-85: Producer Turnover, Margins, and Trade Exposure,” in Mark J. Roberts and James R. Tybout (eds.), *Industrial Evolution in Developing Countries: Micro Patterns of Turnover, Productivity, and Market Structure*, Oxford University Press (1996), pp. 227-259.

- “Employment Flows and Producer Turnover in Three Developing Countries,” in Mark J. Roberts and James R. Tybout (eds.), *Industrial Evolution in Developing Countries: Micro Patterns of Turnover, Productivity, and Market Structure*, Oxford University Press (1996), pp.18-42.
- “The Role of Technology Use in the Survival and Growth of Manufacturing Plants,” with Mark Doms and Timothy Dunne, *International Journal of Industrial Organization*, Vol. 13, No. 4 (December 1995), pp. 501-522. Reprinted in *Innovation, Evolution of Industry, and Economic Growth*, David Audretsch and Steven Klepper (eds.), Edward Elgar Publishing, Ltd., 1999.
- “Costs, Demand, and Imperfect Competition as Determinants of Plant-Level Output Prices,” with Timothy Dunne, in David Audretsch and John Siegfried (eds.), *Empirical Studies in Industrial Organization: Essays in Honor of Leonard W. Weiss*, Kluwer Academic Publishers, (1992), pp. 13-34.
- “The Duration of Employment Opportunities in U.S. Manufacturing,” with Timothy Dunne, *Review of Economics and Statistics*, Vol. 73, No. 2 (August 1991), pp. 216-227.
- “Size Rationalization and Trade Exposure in Developing Countries,” with James Tybout, in Robert Baldwin (ed.), *Empirical Studies of Commercial Policy*, University of Chicago Press, (1991), pp. 169-193.
- “Variation in Producer Turnover Across U.S. Manufacturing Industries,” with Timothy Dunne, in Paul. A. Geroski and Joachim Schwalbach (eds.), *Entry and Market Contestability: An International Comparison*, Basil Blackwell, (1991), pp. 187-203.
- “The Growth and Failure of U.S. Manufacturing Plants,” with Timothy Dunne and Larry Samuelson, *The Quarterly Journal of Economics*, Vol. 104, No. 4 (November 1989), pp. 671-698. Reprinted in *Small Firms and Economic Growth*, Zoltan Acs (ed.), Edward Elgar Publishing, Ltd., 1994. Reprinted in *Innovation, Evolution of Industry and Economic Growth*, David Audretsch and Steven Klepper (eds.), Edward Elgar Publishing, Ltd., 1999.
- “Firm Entry and Post-Entry Performance in the U.S. Chemical Industries,” with Timothy Dunne and Larry Samuelson, *The Journal of Law and Economics*, Vol. 32, No. 2, Pt. 2 (October 1989), pp. S233-S272.
- “Ramsey Numbers and the Role of Competing Interest Groups in Electric Utility Regulation,” with Jon P. Nelson, *Quarterly Review of Economics and Business*, Vol. 29, No. 3 (Autumn, 1989), pp. 21-42.
- “Plant Turnover, and Gross Employment Flows in the U.S. Manufacturing Sector,” with Timothy Dunne and Larry Samuelson, *Journal of Labor Economics*, Vol. 7, No. 1 (January 1989), pp. 48-71.
- “Patterns of Firm Entry and Exit in U.S. Manufacturing Industries,” with Timothy Dunne and Larry Samuelson, *Rand Journal of Economics*, Vol. 19, No. 4 (Winter 1988), pp. 495-515. Reprinted in *Small Firms and Economic Growth*, Zoltan Acs (ed.), Edward Elgar Publishing, Ltd., 1994.

- “An Empirical Analysis of Dynamic, Non-Price Competition in an Oligopolistic Industry,” with Larry Samuelson, *Rand Journal of Economics*, Vol. 19, No. 2 (Summer 1988), pp. 200-220.
- “Price and Quality Level Comparisons for U.S. Footwear Imports: An Application of Multilateral Index Numbers,” with Bee Yan Aw, in Robert Feenstra (ed.), *Empirical Methods for International Trade*, MIT Press, (1988), pp. 257-275.
- “An Analysis of Ramsey Pricing in Electric Utilities,” with Jon P. Nelson and Emsley Tromp, in Michael Crew (ed.), *Regulating Utilities in an Era of Deregulation*, Macmillan, (1987), pp. 85-110.
- “Economies of Density and Size in the Production and Delivery of Electric Power,” *Land Economics*, Vol. 62, No. 4 (November 1986), pp. 378-387.
- “Measuring Quality Change in Quota-Constrained Import Markets: The Case of U.S. Footwear,” with Bee Yan Aw, *Journal of International Economics*, Vol. 21, No.1/2 (August 1986), pp. 45-60.
- “The Role of Imports from the Newly-Industrializing Countries in U.S. Production,” with Bee Yan Aw, *Review of Economics and Statistics*, Vol. 67, No. 1 (February 1985), pp. 108-117.
- “Cost-Minimizing Regulation of Sulfur Emissions: Regional Gains in Electric Power,” with Frank Gollop, *Review of Economics and Statistics*, Vol. 67, No. 1 (February 1985), pp. 81-90. (summarized in *Regulation*, November/December 1985, pp. 51-52).
- “Testing Oligopolistic Behavior,” *International Journal of Industrial Organization*, Vol. 2, No. 4 (December 1984), pp. 365-383.
- “Environmental Regulations and Productivity Growth: The Case of Fossil-Fueled Electric Power Generation,” with Frank Gollop, *The Journal of Political Economy*, Vol. 91, No. 4 (August 1983), pp. 654-674.
- “The Sources of Growth in the U.S. Electric Power Industry,” with Frank Gollop, in Thomas Cowing and Rodney Stevenson (eds.), *Productivity Measurement in Regulated Industries*, Academic Press, (1981), pp. 107-143.
- “Imported Intermediate Input: Its Impact on Sectoral Productivity in U.S. Manufacturing,” with Frank Gollop, in N. Adams and A. Dogramaci (eds.), *Aggregate and Industry-Level Productivity Analyses*, Martinus Nijhoff Publishing, (1981), pp. 149-186.
- “Firm Interdependence in Oligopolistic Markets,” with Frank Gollop, *Journal of Econometrics*, Vol. 10, No. 3 (August 1979), pp. 313-333.

**Other Publications:**

- “Comment on Foster, Haltiwanger, and Kruzan,” in *New Developments in Productivity Analysis* (C.R. Hulten, E.R. Dean, and M.J. Harper, (eds.)), University of Chicago Press, 2001, pp. 363-372.

- “Discussant Comments on Anderson and Meyer,” *Brookings Papers on Economic Activity-Microeconomics*, (1994), pp. 240-243.
- “Wages and the Risk of Plant Closure: Estimates from Census Microdata,” *Proceedings American Statistical Association: Business and Economics Section*, (1989), pp. 275-280.
- “Disclosure Research: Discussion,” *Proceedings of the Bureau of the Census Fourth Annual Research Conference*, (1988), pp. 212-214.
- “The Effect of Nonsampling Errors on the Development and Use of the Longitudinal Establishment Data File,” with James Monahan, *Proceedings of the Bureau of the Census Second Annual Research Conference*, (1986), pp. 131-146.
- “The Cost Structure of Electric Power Delivery and Implications for Regulation,” *Proceedings of the Twelfth Annual Rate Symposium on Pricing Electric, Gas, and Telecommunication Services*, (1986), pp. 47-52.

**Research Grants:**

- “Pennsylvania State University – Census Bureau Research Data Center,” With Jennifer Van Hook, Marianne Hillemeier, John Iceland, and Leif Jensen, NSF Grant SES-1324103, 9/13-8/16.
- “Long-Run Benefits of Firms’ Investment in Innovations and Human Capital – A Structural Modeling Approach,” with Bettina Peters and Van Anh Vuong, ZEW/Seek Research Grant, 4/13-11/14.
- “Measuring and Modeling Changes in the Quality and Productivity of Chinese Exports,” with Daniel Yi Xu, NSF grant SES 1125963, 9/11-9/14
- “International Trade and Industrial Evolution: An Empirical Framework for Policy Analysis” with James Tybout, NSF grant SES-0095574, 6/01-6/04.
- “Empirical Implications of Sunk Entry Costs,” with Timothy Dunne, NSF grant SBR-9631766, 8/96-6/00.
- “Micro-Foundations of Successful Export Promotion,” with James Tybout, World Bank Research Committee, 5/94-12/95.
- “Industrial Competition, Productive Efficiency and Trade Regimes,” with James Tybout, World Bank Research Committee, 6/88-6/90.
- “Firm Entry and Industry Evolution in the U.S. Manufacturing Sector: Measurement and Analysis,” with Larry Samuelson, NSF grant SES - 8605844, 7/86-7/87.