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Born: May 25, 1955 Marital Status: Married, two children

Academic 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.

Employment:

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

Fields of Research Interest: Applied Microeconomics, Industrial Organization

Honors and Awards:

Undergraduate Teaching Award, Department of Economics, Fall 1996 (Introduction to Econometrics), Spring 2000 (Economics of the Corporation).  
Census Bureau Research Fellowship, 1992-1993  
Award for Distinction in the Social Sciences, Liberal Arts Society, The Pennsylvania State University, 1990  
American Statistical Association/Census Bureau Research Fellowship, 1985-1986

Professional Activities:

National Science Foundation Review Panel on Information Technology Research, 2004  
Member, Panel on Federal Business Statistics, National Academy of Sciences, 2004-present  
American Economic Association, Census Advisory Committee, 2001-present  
Executive Committee, Conference on Research in Income and Wealth, 2001-present  
Research Associate, The National Bureau of Economic Research, 1996-present  
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  
Consultant, The World Bank, 1988-1995, 1999-present

Publications:

Edited Volume and Monograph:

*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).

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

Chapters in Books:

"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.

"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.

"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.

"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.

"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.

"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.

"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.

"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.

"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.

"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.

Journal Publications:

- "Firm Interdependence in Oligopolistic Markets," with Frank Gollop, *Journal of Econometrics*, Vol. 10, No. 3 (August 1979), pp. 313-333.
- "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.
- "Testing Oligopolistic Behavior," *International Journal of Industrial Organization*, Vol. 2, No. 4 (December 1984), pp. 365-383.
- "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).
- "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.
- "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.
- "Economies of Density and Size in the Production and Delivery of Electric Power," *Land Economics*, Vol. 62, No. 4 (November 1986), pp. 378-387.
- "An Empirical Analysis of Dynamic, Non-Price Competition in an Oligopolistic Industry," with Larry Samuelson, *The Rand Journal of Economics*, Vol. 19, No. 2 (Summer 1988), pp. 200-220.
- "Patterns of Firm Entry and Exit in U.S. Manufacturing Industries," with Timothy Dunne and Larry Samuelson, *The 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.
- "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.
- "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.
- "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.

- "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.
- "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.
- "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.
- "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.
- "Plant-Level 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.
- "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.
- "Productivity and the Decision to Export: Micro Evidence from Taiwan and South Korea," with Bee Yan Aw and Sukkyun Chung, *The World Bank Economic Review*, Vol. 14, No. 1 (January 2000), pp.65-90.
- "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.
- "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.
- "Productivity, Output, and Failure: A Comparison of Taiwanese and Korean Manufacturers," with Bee Yan Aw and Sukkyun Chung, *The Economic Journal*, Vol. 113, Issue 491 (November 2003), pp. F485-510.
- "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.
- "The Complementary Role of Exports and R&D as Sources of Productivity Growth," with Bee Yan Aw and Tor Winston, *The World Economy*, forthcoming. Available as NBER Working Paper 11774, November 2005.

#### Conference Proceedings:

- "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.

"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.

"Disclosure Research: Discussion," *Proceedings of the Bureau of the Census Fourth Annual Research Conference*, (1988), pp. 212-214.

"Wages and the Risk of Plant Closure: Estimates from Census Microdata," *Proceedings American Statistical Association: Business and Economics Section*, (1989), pp. 275-280.

"Discussant Comments on Anderson and Meyer," *Brookings Papers on Economic Activity-Microeconomics*, (1994), pp. 240-243.

"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.

#### Current Working Papers:

"Market Entry Costs, Producer Heterogeneity, and Export Dynamics," with Sanghamitra Das and James Tybout, NBER Working Paper 8629, Revised, September 2006.

"Hysteresis in Market Structure: The Oil Equipment Industry During Boom and Bust" with Timothy Dunne and Shawn D. Klimek, May 2000.

"Entry and Exit in Geographic Markets," with Timothy Dunne, Shawn Klimek, and Daniel Xu, July 2006.

#### Research Grants:

"Firm Conduct and the Use of Strategic Entry Barriers in Oligopolistic Industries," American Statistical Association/NSF/Census Bureau Fellowship, 8/85-8/86.

"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.

"Industrial Competition, Productive Efficiency and Trade Regimes," with James Tybout, World Bank Research Committee, 6/88-6/90.

"Measuring Output Market Competition," Census Bureau Research Fellowship, 8/92-6/93.

"Micro-Foundations of Successful Export Promotion," with James Tybout, World Bank Research Committee, 5/94-12/95.

"Empirical Implications of Sunk Entry Costs," with Timothy Dunne, NSF grant SBR-9631766, 8/96-6/00.

"International Trade and Industrial Evolution: An Empirical Framework for Policy Analysis" with James Tybout, NSF grant SES-0095574, 6/01-6/04.