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Education

1986 *University of Minnesota*, Ph.D., Economics
1978 *Boston College*, B.A.

Work Experience

1993–present Visitor, *University of Minnesota*
1992–present Economist, Senior Economist, Research Officer, *Federal Reserve Bank of Minneapolis*
1990–91 Research Fellow, *American Statistical Association/National Science Foundation*
1987–92 Assistant Professor, *SUNY–Stony Brook*
1985–87 Assistant Professor, *University of Wisconsin–Madison*

Journal Articles

“Privatization’s Impact on Private Productivity: The Case of Brazilian Iron Ore,” with Arilton Teixeira, *Review of Economic Dynamics*, October 2008.
“What Determines Productivity? Lessons from the Dramatic Recovery of the U.S. and Canadian Iron Ore Industries Following Their Early 1980s Crisis,” *Journal of Political Economy*, June 2005.
“Latin America in the Rearview Mirror,” with Harold L. Cole, Lee E. Ohanian, and Alvaro Riascos, *Journal of Monetary Economics*, January 2005. Reprinted in *Federal Reserve Bank of Minneapolis Quarterly Review*, September 2006.
“Competitive Pressure and Labor Productivity: World Iron-Ore Markets in the 1980s,” with José E. Galdón-Sánchez, *American Economic Review*, September 2002. . Reprinted in *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 2003.
“Competition at Work: Railroads vs. Monopoly in the U.S. Shipping Industry,” with Thomas Holmes, *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 2001.

- “A Gain from Trade: From Unproductive to Productive Entrepreneurship,” with Thomas Holmes, *Journal of Monetary Economics*, April 2001.
- “Government Production of Investment Goods and Aggregate Labor Productivity,” *Journal of Monetary Economics*, February 2001.
- “Maintenance and Repair: Too Big to Ignore,” with Ellen McGrattan, *Federal Reserve Bank of Minneapolis Quarterly Review*, Fall 1999.
- “The Role Played by Public Enterprises: How Much Does It Differ Across Countries?” *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 1996.
- “Nonresponse Bias and Business Turnover Rates: The Case of the Characteristics of Business Owners Survey,” with Thomas Holmes, *Journal of Business and Economic Statistics*, April 1996.
- “Managerial Tenure, Business Age, and Small Business Turnover,” with Thomas Holmes, *Journal of Labor Economics*, January 1996.
- “On the Turnover of Business Firms and Business Managers,” with Thomas Holmes, *Journal of Political Economy*, October 1995.
- “Resistance to New Technology and Trade Between Areas,” with Thomas Holmes, *Federal Reserve Bank of Minneapolis Quarterly Review*, Winter 1995.
- “Wages, Employment Structure, and Employer Size-Wage Premia: Their Relationship to Advanced-Technology Usage at U.S. Manufacturing Establishments,” with Tim Dunne, *Economica*, February 1995.
- “Can Companies Maintain Their Initial Innovative Thrust? A Study of the PC Software Industry,” with Thomas J. Prusa, *Review of Economics and Statistics*, August 1994.
- “Early Progress on the ‘Problem of Economic Development,’ ” *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 1993.
- “Research and Imitation in Long-Run Growth,” with Aldo Rustichini, *Journal of Monetary Economics*, March 1991.
- “Are New Firms an Important Source of Innovation? Evidence from the PC Software Industry,” with Thomas J. Prusa, *Economic Letters*, March 1991.
- “A Theory of Entrepreneurship and Its Application to the Study of Business Transfers,” with Thomas Holmes, *Journal of Political Economy*, April 1990.
- “Imitation, Entrepreneurship, and Long-Run Growth,” *Journal of Political Economy*, June 1989.

Other Publications

- “Explaining Cross-Country Income Differences,” with Ellen McGrattan, *Handbook of Macroeconomics*, Vol. 1A, North-Holland, 1999.
- “Specialization in Entrepreneurship,” with Thomas Holmes, in Gary Libecap, ed., *New Learning on Entrepreneurship*, Advances in the Study of Entrepreneurship, Innovation, and Economic Growth, JAI Press, 1993.

Unpublished Research Papers

- “Transportation and Development: Insights from the U.S., 1840–1860,” with Berthold Herrendorf and Arilton Teixeira, Staff Report 425, Federal Reserve Bank of Minneapolis, May 2009.
- “The Economic Performance of Cartels: Evidence from the New Deal U.S. Sugar Manufacturing Cartel, 1934–74,” with Benjamin Bridgman and Shi Qi, Staff Report 437, Federal Reserve Bank of Minneapolis, November 2009.
- “Monopoly and the Incentive to Innovate When Adoption Involves Switchover Disruptions,” with Thomas Holmes and David Levine, Staff Report 402, Federal Reserve Bank of Minneapolis, revised October 2008.
- “Does Regulation Reduce Productivity? Evidence From Regulation of the U.S. Beet-Sugar Manufacturing Industry During the Sugar Acts, 1934–74,” with Benjamin Bridgman and Shi Qi, Staff Report 389, Federal Reserve Bank of Minneapolis, April 2007.
- “Does Competition Spur Productivity? Evidence from U.S. Cement Manufacturing Industry in the Post WWII Period,” with Shawn Klimek and Timothy Dunne.
- “Competition and Productivity: A Review of Evidence,” with Thomas Holmes.
- “Granting Patents in a World with Researchers and Schemers,” with Thomas Holmes.
- “Land Reform and Industrial Policy in Puerto Rico: Its Impact on Sugar Manufacturing,” with Benjamin Bridgman and Arilton Teixeira.
- “Comparing Industrial Policies,” with Thomas Holmes.