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Curriculum Vitae
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FIELDS OF SPECIALIZATION:

Industrial Organization, Economic Growth and Development

EDUCATION:

Ph.D., University of Minnesota, 1986.

B.A., Boston College, 1978.

EMPLOYMENT:

1985-87: Assistant Professor, University of Wisconsin

1987-92: Assistant Professor, SUNY-Stony Brook

1990-91: American Statistical Association/National Science Foundation Research Fellow, in residence, U.S. Census Bureau

1992- present: Economist, Senior Economist, Research Officer, Federal Reserve Bank of Minneapolis

1993-present: Visitor, University of Minnesota

PUBLICATIONS:

“Imitation, Entrepreneurship, and Long-Run Growth,” *Journal of Political Economy*, 97, June 1989, pp. 721-39.

“A Theory of Entrepreneurship and Its Application to the Study of Business Transfers,” (with Thomas Holmes), *Journal of Political Economy*, 98, April 1990, pp. 265-94.

“Are New Firms an Important Source of Innovation? Evidence From the PC Software Industry,” *Economic Letters*, (with Thomas Prusa), 35, March 1991, pp. 339-42.

“Research and Imitation in Long-Run Growth,” *Journal of Monetary Economics*, (with Aldo Rustichini), March 1991, pp. 271-92.

“Early Progress on the ‘Problem of Economic Development’,” *Federal Reserve Bank of Minneapolis Quarterly Review*, Vol. 17, #2, Spring 1993.

“Specialization in Entrepreneurship,” (with Thomas Holmes) in *New learning on entrepreneurship*. Gary Libecap, editor, Advances in the Study of Entrepreneurship, Innovation, and Economic Growth vol. 6. Greenwich, Conn. and London: JAI Press, 1993, pages 85-108.

“Can Companies Maintain Their Initial Innovative Thrust? A Study of the PC Software Industry,” *Review of Economics and Statistics*, (with Thomas Prusa), August 1994.

“Wages, Employment Structure, and Employer Size-Wage Premia: Their Relationship to Advanced-Technology Usage at U.S. Manufacturing Establishments,” *Economica*, (with Tim Dunne), 1995.

“Resistance to New Technology and Trade Between Areas,” (with Thomas Holmes) *Federal Reserve Bank of Minneapolis Quarterly Review*, Vol. 19, #2, Winter 1995.

“On the Turnover of Business Firms and Business Managers,” (with Thomas Holmes), *Journal of Political Economy*, Vol. 83, #5, October 1995, pp. 1005-1038.

“Managerial Tenure, Business Age, and Small Business Turnover,” (with Thomas Holmes), *Journal of Labor Economics*, Vol. 14, #1, January 1996, pp 79-99.

“Nonresponse Bias and Business Turnover Rates: The Case of the Characteristics of Business Owners Survey,” (with Thomas Holmes), *Journal of Economics and Business Statistics*, 14, April 1996, pp. 93-103

“The Role Played By Public Enterprises Across Countries: How Much Does It Differ?” *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 1996, pp. 2-15.

“Explaining Cross-Country Income Differences,” (with Ellen McGrattan), *Handbook of Macroeconomics*, North Holland Press, Volume 1A, 1999.

“Maintenance and Repair: Too Big To Ignore,” (with Ellen McGrattan), *Federal Reserve Bank of Minneapolis Quarterly Review*, Fall 1999.

“Government Production of Investment Goods and Aggregate Labor-Productivity,” *Journal of Monetary Economics*, Vol. 47, #1, February, 2001, pp. 163-87.

“A Gain From Trade: From Unproductive to Productive Entrepreneurship,” (with Thomas Holmes), *Journal of Monetary Economics*, Vol. 47, #2, April, 2001, pp. 417-446.

“Competition at Work: Railroads vs. Monopoly in U.S. Shipping,” (with Thomas Holmes), *Federal Reserve Bank of Minneapolis Quarterly Review*, 2001.

“Competitive Pressure and Labor Productivity: World Iron-Ore Markets in the 1980’s,” (with Jose E. Galdon Sanchez), Federal Reserve Bank of Minneapolis Staff Report # 263, September, 1999, *American Economic Review*, September, 2002.

PAPERS UNDER REVISION AT JOURNALS:

“What Determines Labor Productivity?: Lessons from the Dramatic Recovery of the United States and Canadian Iron-Ore Industries,” Federal Reserve Bank of Minneapolis Staff Report # 286, September, 1999 (a revision requested at the *Journal of Political Economy*).

WORKING PAPERS/PAPERS IN PREPARATION:

“Nineteenth Century U.S. Economic Growth: How Important was the Transportation Revolution?”

“Estimating the Benefits of Reducing Monopoly: The Case of the Introduction of Railroads in the United States in the Nineteenth Century.”

“What Happens to the Productivity of Private Firms When Their Public Counterparts are Privatized?: The Case of Brazilian Iron-Ore” (with Arilton Teixeira)

“The Development of Corn Sweeteners and the Productivity of Cane Sugar Refining,” (in preparation).

“Railroad Competition and Nineteenth Century River Shipping Prices,” (in preparation, with Thomas Holmes)

GRADUATE TEACHING

University Of Wisconsin: Industrial Organization

SUNY-Stony Brook: Industrial Organization, Macroeconomics

University of Minnesota: Industrial Organization, Growth and Economic Development