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Working Papers

- "The Long and Large Decline in State Employment Growth Volatility," with Robert DeFina and Keith Sill, [Working Paper 11-16](#), April 2011. 
- "The Agglomeration of R&D Labs," with Jake Carr, Robert M. Hunt, and Tony E. Smith, [Working Paper 10-33](#), October 2010. 
- "The Geography of Research and Development Activity in the U.S.," with Kristy Buzard, [Working Paper 09-16](#), August 2009. 
- "What Explains the Quantity and Quality of Local Inventive Activity?," with Robert Hunt, [Working Paper 09-12](#), June 2009. 
- "The Long and Large Decline in State Employment Growth Volatility," with Robert DeFina and Keith Sill, [Working Paper 09-9](#), April 2009. 
- "City Beautiful," with Albert Saiz, [Working Paper 08-22](#), September 2008. 
- "Innovation Across U.S. Industries: The Effects of Local Economic Characteristics," with Robert Hunt, [Working Paper 07-28](#), October 2007. 
- "The Long and Large Decline in State Employment Growth Volatility," with Robert DeFina and Keith Sill, [Working Paper 07-11](#), March 2007. 
- "Urban Density and the Rate of Invention" with Satyajit Chatterjee and Robert Hunt, [Working Paper 06-14](#), August 2006. Supersedes Working Paper 04-16/R. 
- "On the Stability of Employment Growth: A Postwar View from the U.S. States" with Robert DeFina and Keith Sill, [Working Paper 04-21/R](#), June 2005. Supersedes Working Paper 04-21. 
- "Postwar Period Changes in Employment Volatility: New Evidence from State/Industry Panel Data" with Robert DeFina and Keith Sill, [Working Paper 03-18](#), August 2003. 
- "How Strong Is Co-Movement in Employment Over the Business Cycle? Evidence from State/Industry Data" with Robert DeFina, [Working Paper 03-5](#), March 2003. 
- "The Cyclical Behavior of State Employment During the Postwar Period" with Robert DeFina and Keith Sill, [Working Paper 02-14](#), September 2002. 
- "Compensating Differentials and the Social Benefits of the NFL" with N. Edward Coulson, [Working Paper 02-12/R](#), June 2003. 

- "Knowledge Spillovers and the New Economy of Cities" with Satyajit Chatterjee and Robert Hunt, [Working Paper 01-14](#), September 2001. 
- "Sectoral Shocks and Metropolitan Employment Growth," with Robert H. DeFina and Keith Sill, [Working Paper 00-9](#), August 2000. 
- "Regional Income Fluctuations: Common Trends and Common Cycles," with Keith Sill, [Working Paper 00-8](#), August 2000. 
- "Postwar Trends in Metropolitan Employment Growth: Decentralization and Deconcentration," with Satyajit Chatterjee, [Working Paper 99-10](#), August 1999. 
- "Monetary Policy and the U.S. States and Regions: Some Implications for European Monetary Union," with Robert H. DeFina, [Working Paper 98-17](#), July 1998. 
- "The Cyclical Behavior of Regional Per Capita Incomes in the Postwar Period," with Keith Sill, [Working Paper 98-11](#), June 1998. 
- "Aggregate Employment Growth and the Deconcentration of Metropolitan Employment," with Satyajit Chatterjee, [Working Paper 98-6/R](#), February 1999. 
- "On the Evolution of the Spatial Distribution of Employment in Postwar United States," with Satyajit Chatterjee, [Working Paper 97-26](#), October 1997. 

Published Books

- *Economies of Scale in Manufacturing Location: Theory and Measurements*. Leiden, The Netherlands: Martinus Nijhoff, 1978.

Publications in Refereed Journals

- "Urban Density and the Rate of Innovation," *Journal of Urban Economics*, Vol. 61, 2007, pp. 389-419, with Robert Hunt and Satyajit Chatterjee.
- "Macroeconomic Analysis Using Regional Data: An Application to Monetary Policy," in Richard Arnott and Daniel McMillen (eds.), *A Companion to Urban Economics*, Oxford: Blackwell-Synergy, 2007, pp. 440-59, with Robert DeFina.
- "Compensating Differentials and the Social Benefits of the NFL: Reply," *Journal of Urban Economics*, Vol. 60, 2006, pp. 132-38, with N. Edward Coulson.
- "How Strong is Co-Movement in Employment over the Business Cycle? Evidence from State/Sector Data" (with Robert DeFina), *Journal of Urban Economics* 55 (2004), pp. 298-315.
- "Compensating Differentials and the Social Benefits of the NFL" (with N. Ed Coulson), *Journal of Urban Economics* 56 (2004), pp. 25-50.

- "Employment Deconcentration: A New Perspective on America's Postwar Urban Revolution" with Satyajit Chatterjee, *Journal of Regional Science* 42 (2002).
- "Sectoral Shocks and Metropolitan Employment Growth," with Keith Sill and Robert H. DeFina, *Journal of Urban Economics* 50 (2001).
- "Aggregate Metropolitan Employment Growth and the Deconcentration of Metropolitan Employment," with Satyajit Chatterjee, *Journal of Monetary Economics* 48 (2001).
- "Regional Income Fluctuations: Common Trends and Common Cycles," with Keith Sill, *Review of Economics and Statistics* 83 (3) (August 2001).
- "The Differential Effects of Monetary Policy: Evidence from the U.S. States and Regions," with Robert DeFina, *Journal of Regional Science* 39 (1999).
- "The Differential Regional Effects of Monetary Policy," with Robert DeFina, *The Review of Economics and Statistics* 80 (1998).
- "Testing Neoclassical Convergence in Regional Incomes and Earnings," with Leonard Mills, *Regional Science and Urban Economics* 26 (1996).
- "Convergence and the U.S. States: A Time Series Analysis," with Leonard Mills, *Journal of Regional Science* 36 (1996).
- "Are U.S. Regional Incomes Converging? Reply," with Leonard Mills, *Journal of Monetary Economics* 38 (1996).
- "Regional Income Dynamics," with Robert DeFina, *Journal of Urban Economics* 37 (1995).
- "The Effects of Exchange Rate and Relative Productivity Changes on U.S. Industrial Output at the State Level," with Richard Voith and Brian Cody, *Urban Studies* 32 (1994).
- "Are U.S. Regional Incomes Converging? A Time Series Analysis," with Leonard Mills, *Journal of Monetary Economics* 32 (1993).
- "Accounting for Differences in Aggregate State Productivity," with Richard Voith, *Regional Science and Urban Economics* (January 1993).
- "The Concentration/Conduct Relationship in Bank Deposit Markets," with Paul Calem, *The Review of Economics and Statistics* (May 1991).
- "Urban Agglomeration Economies in the Presence of Technical Change," with Paul Calem, *Journal of Urban Economics* (January 1991).
- "Regional Impacts of Exchange Rate Movements," with Brian Cody and Richard Voith, *Regional Science Perspectives* 20 (1990).

- "Interregional Flows of Funds as a Measure of Economic Integration in the United States," with Richard Lang, *Journal of Urban Economics* (July 1989).
- "Comparisons of Agglomeration or what Chinitz Really Said: Reply," *Urban Studies* (February 1987).
- "The Determinants of County Growth," with Edwin S. Mills, *Journal of Regional Science* (February 1987).
- "Is There a Role for Public Policy in Regional Economic Growth?" with Edwin S. Mills, *Modeling and Simulation* (1985).
- "Declining City Productivity and the Growth of Rural Regions: A Test of Alternative Explanations," *Journal of Urban Economics* (July 1985).
- "Do Metropolitan Areas Matter?" with Edwin S. Mills, *Modeling and Simulation* (1984).
- "Interest Rate Effects and Intertemporal Consumption," *Journal of Monetary Economics* (March 1982).
- "Contrasts in Agglomeration: New York and Pittsburgh: Reconsidered," *Urban Studies* (October 1980).
- "Increasing Returns to Scale in Metropolitan Manufacturing," *Journal of Regional Science* (August 1979).

Other Publications

- "Dynamics of County Growth," (with Edwin S. Mills) in Ake Anderson, David Batten, Borje Johansson, and Peter Nijkamp, eds., *Advances in Spatial Theory and Dynamics, Studies in Regional and Urban Economics*, No. 20. New York: Elsevier/North-Holland, 1989.
- "Monetary Policy and the U.S. States and Regions: Some Implications for European Monetary Union," in J. Von Hegen and C. Waller, eds., *Regional Aspects of Monetary Policy in Europe*. Kluwer Academic Publishers, 2000.

Federal Reserve Bank of Philadelphia Business Review Articles

- "Beautiful City," Third Quarter 2009.  **NEW**
- "The Geography of Research and Development Activity in the U.S." with Kristy Buzard, Third Quarter 2008. 
- "The Great Moderation in Economic Volatility: A View from the States," First Quarter 2007. 
- "The Economic Role of Cities in the 21st Century," Third Quarter 2005. 

- "Should Cities Be Ready for Some Football? Assessing the Social Benefits of Hosting an NFL Team," Second Quarter 2004. 
- "A Confluence of Events? Explaining Fluctuations in Local Employment," First Quarter 2003. 
- "Knowledge Spillovers: Cities' Role in the New Economy," Fourth Quarter 2001. 
- "From Centralization to Deconcentration: People and Jobs Spread Out," November/December 2000. 
- "Do States Respond Differently to Changes in Monetary Policy?" with Robert DeFina, July/August 1999. 
- "Trends in Metropolitan Employment Growth," July/August 1998. 
- "Regional Economies: Separating Trends from Cycles," with Keith Sill, May/June 1997. 
- "Does Monetary Policy Have Differential Regional Effects?" with Robert DeFina, March/April 1996.
- "Do Education and Training Lead to Faster Growth in Cities?" January/February 1995.

Research Interests and Work in Progress

- regional business cycles
- time series analysis of regional growth issues
- regional growth