

April 2024

VITA

John C. Haltiwanger

Office Address and Phone: Department of Economics  
University of Maryland  
College Park, MD 20742  
(301) 405-3504

*Education*

Brown University, Sc.B. (Applied Mathematics-Economics), 1977

The Johns Hopkins University, Ph.D. (Economics), 1981

*Honors and Awards (reverse chronological order)*

Society of Labor Economics Award for Contributions to Data and Measurement in 2021

Global Entrepreneurship Research Award, 2020

Fellow, Econometric Society, Elected 2016

Roger Herriot Award for Innovation in Federal Statistics, 2014

Fellow, Society of Labor Economists, Elected 2013

First Recipient of the Dudley and Louisa Professorship in Economics, 2013

Julius Shiskin Award for Economic Statistics, 2013

University of Maryland, Distinguished University Professor, 2010-present.

University of Maryland, Distinguished Scholar Teacher Award, 2008-09.

University of Maryland, BSOS Excellence in Teaching (Graduate Mentor) Award, Spring 2005.

Kaufmann Foundation Grants: 2004-2007; 2007-2010; 2011-2014; 2015-2019.

MacArthur Foundation Grant: 2011-2013

IPA, U.S. Bureau of the Census, 2003-2007, 2008-2010, 2010-2012, 2013-2014.

HUD Research Partnership Grant: 2012-2014.

National Science Foundation Grants: 1983-84; 1986-87; 1988-1991; 1991-1993; 1993-1996; 1996-1998; 1998-2001; 1999-2004; 2004-2007; 2006-2009; 2016-2019; 2020-2022.

National Institute of Health Grant: 2007-2012

National Institute of Aging Grant: 2001-2004.

Russell Sage Grants: 2015-17, 2017-18.

Sloan Foundation Grants: 2000-2002; 2002-2005; 2016-2019; 2018-2020; 2021-2024.

Tinker Foundation Grant: 2004-2005

Templeton Foundation Grant: 2022-2024

University of Maryland, Department of Economics Teaching Award, Fall 1988; Spring 1993; Fall 1996; Spring 2001; Spring 2003; Spring 2004; Spring 2006; Fall 2006; Spring 2010; Spring 2012; Fall 2015; Spring 2016.

University of Maryland Rainmaker Award: 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012.

ASA/NSF/Census Fellowship, 1993-94.

University of Maryland, GRB Academic Year Research Award: 1989-90.

Warren C. Scoville Distinguished Teaching Award, awarded by the Department of Economics, UCLA, Spring 1986.

"C. Richard Martin Award," awarded by the Department of Political Economy, The Johns Hopkins University, 1979.

National Council on Employment Policy Dissertation Fellowship, 1980-81.

Sc.B. with honors, magna cum laude, 1977

"Class of 1873 Award," awarded by Department of Economics, Brown University, for best undergraduate paper in economics, 1977.

### *Work Experience and Professional Affiliations*

Distinguished University Professor of Economics, University of Maryland, 1990-present.

Research Associate, IZA, 2001-present.

Schedule A (part-time) Employee, US Bureau of the Census,

Member, Committee on National Statistics (CNSTAT), National Academy of Sciences, 2003-2009.

Research Associate, National Bureau of Economic Research, 1996-present.

Consultant, The Conference Board, 2006-2010.

Chief Economist, Bureau of the Census, 1997-1999.

Member, Brookings Panel on Economics Activity, 1995-96.

Visiting Professor, Universite of Paris I, June 1993.

Associate Professor of Economics, University of Maryland, 1987-90.

Associate Professor of Economics, The Johns Hopkins University, 1986-87.

Assistant Professor of Economics, University of California, Los Angeles, 1981-86.

### *Publications*

#### *Articles in Refereed Journals (in reverse chronological order):*

“Early Joiners and Startup Performance” (co-authored with Joonkyu Choi, Nathan Goldschlag, and Daniel Kim), Review of Economics and Statistics, (forthcoming).

“Dynamism Diminished: The Role of Housing Markets and Financial Conditions” (co-authored with Steven Davis), American Economic Journal: Macroeconomics, April 2024, 29-61.

“Surging Business Formation During the Pandemic: Causes and Consequences?” (co-authored with Ryan Decker), Brookings Papers on Economic Activity, Fall 2023 (forthcoming).

“The Life-Cycle Growth of Plants: The Role of Productivity, Demand and Wedges,” (co-authored with Marcela Eslava and Nicolas Urdaneta, Review of Economic Studies, January 2024, 259-300.

- “Increasing Earnings Inequality: Reconciling Evidence from Survey and Administrative Data,” (co-authored with Henry R. Hyatt and James Spletzer), Journal of Labor Economics October 2023, S61-S63.
- “Dispersion in dispersion: Measuring establishment-level differences in productivity,” (co-authored with Cindy Cunningham, Lucia Foster, Cheryl Grimm, Sabrina Pablionia, Jay Stewart, and Zoltan Wolf), Review of Income and Wealth, 2022.
- “Childhood Housing and Adult Earnings: A Between-Siblings Analysis of Housing Vouchers and Public Housing” (co-authored with Fredrik Andersson, Mark Kutzbach, Giordano Palloni, Henry Pollakowski, and Daniel Weinberg), American Economic Journal: Economic Policy, August 2022, 235-272.
- “Job creation in Colombia vs the U.S.: "up or out dynamics" meets "the life cycle of plants" (co-authored with Marcela Eslava and Alvaro Pinzon), Economica, July 2022, 511-532.
- “Entrepreneurship in the Twenty-First Century” (Global Entrepreneurship Research Award Prize Lecture), Small Business Economics, January 2022, 27-40.
- "Entrepreneurship during the COVID-19 Pandemic: Evidence from the Business Formation Statistics," Entrepreneurship and Innovation Policy and the Economy, 2022, vol. 1(1), pages 9-42.
- “Reconciling Survey and Administrative Measures of Self-Employment” (co-authored with Katharine Abraham, Claire Hou, Kristin Sandusky, and James Spletzer). Journal of Labor Economics, October 2021, 825-860.
- “Macro and Micro Dynamics of Productivity: From Devilish Details to Insights.” (co-authored with Jake Blackwood, Lucia Foster, Cheryl Grim, and Zoltan Wolf). American Economic Journal: Macroeconomics, July 2021, 142-172.
- “Changing Business Dynamism and Productivity: Shocks vs. Responsiveness.” (co-authored with Ryan Decker, Ron Jarmin and Javier Miranda), American Economic Review, December 2020, 3952–3990.
- “How Tight is the U.S. Labor Market” (co-authored with Katharine Abraham and Lea Rendell), Brookings Papers on Economic Activity, Spring 2020, 97-165.
- “The Consequences of Long Term Unemployment: Evidence from Matched Employer-Employee Data” (co-authored with Katharine Abraham, Kristin Sandusky and James Spletzer), Industrial and Labor Relations Review, March 2019, 266-299.

- “Cyclical Job Ladders by Firm Size and Firm Wage” (co-authored with Henry Hyatt, Lisa Kahn and Erika McEntarfer), American Economic Journal: Macroeconomics, April 2018, 52-85.
- “Job Displacement and the Duration of Joblessness: The Role of Spatial Mismatch” (co-authored with Fredrik Andersson, Mark Kutzbach, Henry Pollakowski, and Daniel Weinberg), Review of Economics and Statistics, May 2018, 2013-18.
- “Who Moves Up the Job Ladder?” (co-authored with Henry Hyatt and Erika McEntarfer) , Journal of Labor Economics, January 2018, 301-306.
- “Firm Dynamics and Productivity: TFPQ, TFPR, and Demand-Side Factors”, Economia, October 2016, 3-26.
- “Where Has All the Skewness Gone? The Decline of High Growth (Young) Firms in the U.S.” (co-authored with Ryan Decker, Ron Jarmin and Javier Miranda), European Economic Review, 2016, (86) 4-23.
- "The Slow Growth of New Plants: Learning About Demand" (co-authored with Lucia Foster and Chad Syverson), Economica, January 2016, 91-129.
- “Reallocation in the Great Recession: Cleansing or Not?” (co-authored with Lucia Foster and Cheryl Grim), Journal of Labor Economics, January 2016, S293-S331.
- “Job Creation, Job Destruction and Productivity Growth: The Role of Young Businesses”, Annual Reviews, April 2015.
- "Dynamics of Labor Demand: Evidence from Plant-Level Observations and Aggregate Implications," (co-authored with Russell Cooper and Jonathan Willis), Research in Economics, March 2015, 37-50.
- “The Workplace Concentration of Immigrants” (co-authored with Fredrik Andersson, Monica Garcia-Perez, Kristin McCue, and Seth Sanders), Demography, December 2014, 2281-2306.
- “Private Equity, Jobs and Productivity” (co-authored with Steven Davis, Kyle Handley, Josh Lerner, Ron Jarmin and Javier Miranda), American Economic Review, December 2014, 3956-3990.
- “The Role of Entrepreneurship in US Job Creation and Economic Dynamism” (co-authored with Ryan Decker, Ron Jarmin and Javier Miranda), Journal of Economic Perspectives, July 2014, 3-24.

- "Assessing Job Flows Across Countries: The Role of Industry, Firm Size, and Regulations" (co-authored with S. Scarpetta and H. Schweiger), Labour Economics, 2014, 11-25.
- "Electricity Pricing to U.S. Manufacturing Plants: 1963-2000" (co-authored with Steven Davis, Cheryl Grim and Mary Streitwieser), Review of Economics and Statistics, 2013, 1150-1165.
- "Establishment-Level Behavior of Vacancies and Hiring" (co-authored with Steven Davis and Jason Faberman), Quarterly Journal of Economics, 2013, 581-622.
- "Who Creates Jobs? Small vs. Large vs. Young" (co-authored with Ron Jarmin and Javier Miranda), Review of Economics and Statistics, 2013, 347-361.
- "Cross Country Differences in Productivity: The Role of Allocation and Selection" (co-authored with Eric Bartelsman and Stefano Scarpetta), American Economic Review, 2013, 305-344.
- "Exploring Differences in Employment Between Household and Establishment Data" (co-authored with Katharine Abraham, Kristin Sandusky and James Spletzer), Journal of Labor Economics, 2013, S129-S172.
- "Trade Reforms and Market Selection: Evidence from Manufacturing Plants in Colombia" (co-authored with Marcela Eslava, Adriana Kugler and Maurice Kugler), Review of Economic Dynamics, 2013, 135-158.
- "How Firms Respond to Business Cycles: The Role of the Firm Age and Firm Size" (co-authored with Teresa Fort, Ron Jarmin and Javier Miranda), IMF Economic Review, 2013, 520-559.
- "Job Creation and Firm Dynamics in the U.S.", Innovation Policy and the Economy, 2012, 17-38.
- "Labor Market Flows in the Cross Section and Over Time" (co-authored with Steven Davis and Jason Faberman), Journal of Monetary Economics, January 2012, 1-18.
- "Employer-to-Employer Flows in the United States: Estimates Using Linked Employer-Employee Data" (co-authored with Melissa Bjelland, Bruce Fallick and Erika McEntarfer), Journal of Business and Economic Statistics, 2011, 493-503.
- "Cross-country and Within-country Differences in the Business Climate," (co-authored with Eric Bartelsman and Stefano Scarpetta), International Journal of Industrial Organization, July 2010, 368-371.

- "Factor Adjustment After Deregulation: Panel Evidence from Colombia Plants," (co-authored with Marcela Eslava, Adriana Kugler, and Maurice Kugler), Review of Economics and Statistics, May 2010, 378-391.
- "Business Volatility, Job Destruction and Unemployment" (co-authored with Steven Davis, Jason Faberman, Ron Jarmin and Javier Miranda), American Economic Journal: Macroeconomics, April 2010, 259-287.
- "Mom-and-Pop Meet Big-Box: Complements or Substitutes?" (co-authored with Ron Jarmin and C. J. Krizan), Journal of Urban Economics, January 2010, 116-134.
- "Reaching for the Stars: Who Pays for Talent in Innovative Industries?" (co-authored with Fredrik Andersson, Matthew Freedman, Julia Lane and Kathy Shaw), in Economic Journal, June 2009, F308-F332.
- "Reallocation, Firm Turnover and Efficiency: Selection on Productivity or Profitability," (co-authored with Lucia Foster and Chad Syverson), American Economic Review, March 2008, 394-425.
- "Search Frictions: Matching Aggregate and Establishment Observations," (co-authored with Russell Cooper and Jonathan Willis), Journal of Monetary Economics, September 2007, 56-78.
- "Using Worker Flows to Measure Firm Dynamics," (co-authored with Gary Benedetto, Julia Lane and Kevin McKinney), Journal of Business and Economic Statistics, July 2007, 299-313.
- "Wages, Productivity, and the Dynamic Interaction of Businesses and Workers," (co-authored with Julia Lane and James Spletzer), Labour Economics, June 2007, 575-602.
- "Market Selection, Reallocation, and Restructuring in the U.S. Retail Trade Sector in the 1990s," (co-authored with Lucia Foster and C.J. Krizan), Review of Economics and Statistics, November 2006, 748-758.
- "Volatility and Dispersion in Business Growth Rates: Publicly Traded and Privately Held Firms," (co-authored with Steven Davis, Ron Jarmin and Javier Miranda), NBER Macroeconomics Annual 2006, 107-180.
- "On the Nature of Capital Adjustment Costs," (co-authored with Russell Cooper), Review of Economic Studies, July 2006, 611-633.
- "The Flow Approach to Labor Markets, Micro-Macro Links, and the Recent Downturn," (co-authored with Steven J. Davis and R. Jason Faberman), Journal of Economic Perspectives, Summer 2006, 3-26.

- "Plant Turnover and Structural Reforms in Colombia," (co-authored with Marcela Eslava, Adriana Kugler and Maurice Kugler), International Monetary Fund Staff Papers, 2006, 58-75.
- "The Effect of Structural Reforms on Productivity and Profitability Enhancing Reallocation: Evidence from Colombia," (co-authored with Marcela Eslava, Adriana Kugler and Maurice Kugler), Journal of Development Economics, December 2004, 333-371.
- "The Impact of Trade Reforms on Labour Market Dynamics and Productivity in Latin America: An Introduction" (co-authored with Adriana Kugler, Maurice Kugler, Alejandro Micco and Carmen Pages), Journal of Policy Reform, December 2004, 189-190.
- "Effects of Tariffs and Real Exchange Rates on Job Reallocation: Evidence from Latin America" (co-authored with Adriana Kugler, Maurice Kugler, Alejandro Micco and Carmen Pages), Journal of Policy Reform, December 2004, 191-208.
- "Integrated Longitudinal Employer-Employee Data for the United States," (co-authored with John Abowd and Julia Lane), American Economic Review, May 2004, 224-229.
- "Wages and Productivity Dispersion in U.S. Manufacturing: The Role of Computer Investment," (co-authored with Tim Dunne, Lucia Foster and Ken Troske), Journal of Labor Economics, April 2004, 397-430.
- "Understanding Aggregate Growth: The Need for Microeconomic Evidence," New Zealand Economics Papers, 2003, 33-58.
- "Worker Flows, Job Flows and Firm Wage Policies: An Analysis of Slovenia," (co-authored Milan Vodopivec), Economics of Transition, Vol. 11, 2003, 253-290.
- "A Symposium on Job Creation and Destruction in Transition Economies: An Introduction," (co-authored with Hartmut Lehmann and Katherine Terrell), Economics of Transition, Vol. 11, 2003, 205-219.
- "Gross Worker and Jobs Flows in a Transition Economy: An Analysis of Estonia." (co-authored with Milan Vodopivec), Labour Economics, 2002, 601-630.
- "Sectoral Job Creation and Destruction Responses to Oil Price Changes and Other Shocks." (co-authored with Steve Davis), Journal of Monetary Economics, December 2001, 465-512.
- "Labor Productivity: Structural Change and Cyclical Dynamics," (co-authored with Martin Baily and Eric Bartelsman), Review of Economics and Statistics, August 2001, 420-433.



- "On the Driving Forces behind Cyclical Movements in Employment Movement and Job Reallocation" (co-authored with Steven Davis), American Economic Review, December 1999, 1234-1258.
- "Machine Replacement and the Business Cycle: Lumps and Bumps," (co-authored with Russell Cooper and Laura Power), American Economic Review, September 1999, 921-46.
- "Cross-Country Evidence on Public Sector Retrenchment." (co-authored with Manisha Singh), World Bank Economic Review, January 1999, 23-66.
- "A Comparison of Job Creation and Destruction in the Manufacturing Sectors of Canada and the United States," (co-authored with John Baldwin and Tim Dunne), Review of Economics and Statistics, August 1998, 347-356.
- "Technology and Jobs: Secular Changes and Cyclical Dynamics," (co-authored with Timothy Dunne and Kenneth Troske), Carnegie-Rochester Series on Public Policy, 1997, 107-178.
- "Measuring and Analyzing Aggregate Fluctuations: The Importance of Building from Microeconomic Evidence," Federal Reserve Bank of St. Louis Review, May/June 1997, 55-78.
- "Aggregate Employment Dynamics: Building From Microeconomic Evidence," (co-authored with Ricardo Caballero and Eduardo Engel) American Economic Review, March 1997, 115-137.
- "Employer Size and the Wage Structure in U.S. Manufacturing," (co-authored with Steven Davis), Annales D'Economie et de Statistique, January/June 1996, 323-368.
- "Evidence on Macroeconomic Complementarities," (co-authored with Russell Cooper), Review of Economics and Statistics, February 1996, 78-93.
- "Real Wages and the Business Cycle," (co-authored with Katharine Abraham), Journal of Economic Literature, September 1995, 1215-1264.
- "Plant-Level Adjustment and Aggregate Investment Dynamics," (co-authored with Ricardo Caballero and Eduardo Engel), Brookings Papers on Economic Activity, 1995:2, 1-54.
- "Small Business and Job Creation: Dissecting the Myth and Reassessing the Facts," (co-authored with Steven Davis and Scott Schuh) in Labor Markets, Employment Policy, and Job Creation, (Boulder: Westview Press, 1994); reprinted in Small Business Economics (1996); abbreviated version reprinted in Business Economics, July 1994, 13-22.

- "Downsizing and Productivity Growth: Myth or Reality," (co-authored with Martin Baily and Eric Bartelsman) Small Business Economics, 1994; reprinted in Sources of Productivity Growth in the 1980s, (Cambridge: Cambridge University Press, 1996).
- "The Role of Altruism in Economic Interaction," (co-authored with Michael Waldman), Journal of Economic Behavior and Organization, 1993, 1-15.
- "The Aggregate Implications of Machine Replacement: Theory and Evidence," (co-authored with Russell Cooper), American Economic Review, 1993, 360-382.
- "Autos and the National Industrial Recovery Act: Evidence on Macroeconomic Complementarities," (co-authored with Russell Cooper), Quarterly Journal of Economics, 1993, 1043-1071.
- "Gross Job Creation, Gross Job Destruction, and Employment Reallocation" (co-authored with Steven Davis), Quarterly Journal of Economics, 1992, 819-864.
- "Macroeconomic Implications of Production Bunching: Factor Demand Linkages" (co-authored with Russell Cooper), Journal of Monetary Economics, 1992, 107-128.
- "Responders Versus Nonresponders: A New Perspective on Heterogeneity" (co-authored with Michael Waldman), Economic Journal, September 1991, 1085-1102.
- "Wage Dispersion Between and Within U.S. Manufacturing Plants, 1963-1986" (co-authored with Steven Davis), Microeconomic Brookings Papers on Economic Activity, 1991, 115-200.
- "Gross Job Creation and Destruction: Microeconomic Evidence and Macroeconomic Implications" (co-authored with Steven Davis), NBER Macroeconomics Annual 1990, 123-168.
- "The Impact of Cyclical Demand Movements on Collusive Behavior" (co-authored with Joseph Harrington), Rand Journal of Economics, Spring 1991, 89-106.
- "Inventories and the Propagation of Sectoral Shocks" (co-authored with Russell Cooper), American Economic Review, March 1990, 170-190.
- "Inventories, Orders, Temporary and Permanent Layoffs: An Econometric Analysis," (co-authored with Louis Maccini), Carnegie-Rochester Conference Series on Public Policy, Spring 1989, 301-366.
- "Limited Rationality and Strategic Complements: The Implications for Macroeconomics," (co-authored with Michael Waldman), Quarterly Journal of Economics, August 1989, 463-483.

- "Rational Expectations in the Aggregate," (co-authored with Michael Waldman), Economic Inquiry, October 1989, 619-636.
- "A Model of Inventory and Layoff Behavior Under Uncertainty," (co-authored with Louis Maccini), Economic Journal, September 1988, 731-745.
- "The Time Series Properties of Aggregate Orders, Inventories and Labor Inputs" (co-authored with Louis Maccini) in The Economics of Inventory Management, (Amsterdam, Netherlands: Elsevier Science Publishers B.V., 1988).
- "Limited Countercyclical Policies: An Exploratory Study," (co-authored with Sean Beckett), Journal of Public Economics, December 1987, 311-328.
- "Insurance and Labor Market Contracting: An Analysis of the Capital Market Assumption," (co-authored with Michael Waldman), Journal of Labor Economics, July 1986, 355-375.
- "Tax Reform and Strong Substitutes," (co-authored with Tatsuo Hatta), International Economic Review, June 1986, 303-315.
- "Unemployment Rate Dynamics and Persistent Unemployment Under Rational Expectations," (co-authored with Michael Darby and Mark Plant), American Economic Review, September 1985, 614-637.
- "Rational Expectations and the Limits of Rationality: An Analysis of Heterogeneity," (co-authored with Michael Waldman), American Economic Review, June 1985, 326-340.
- "The Distinguishing Characteristics of Temporary and Permanent Layoffs," Journal of Labor Economics, October 1984, 523-538.
- "Asymmetric Information, Multiperiod Labor Contracts, and Inefficient Job Separations," Southern Economic Journal, April 1984, 1005-1024.
- "On the Relationship Between Risk Aversion and the Development of Long Term Worker-Firm Attachments," Southern Economic Journal, October 1983, 572-577.
- "A Decomposition of the Harberger Expression for Tax Incidence," (co-authored with Tatsuo Hatta), Journal of Public Economics, December 1982, 353-366.

*Articles in Books:*

- "Rising between Firm Inequality and Declining Labor Market Fluidity: Evidence of a Changing Job Ladder" (co-authored with James Spletzer) in Measuring Distribution and Mobility of Income and Wealth (Raj Chetty and John N. Friedman and Janet C. Gornick and Barry Johnson and Arthur Kennickell, eds.) NBER/University of Chicago Press, 2022 .
- "Re-Engineering Key National Economic Indicators" (co-authored with Gabriel Ehrlich, John Haltiwanger, Ron Jarmin, David Johnson, and Matthew D. Shapiro in Big Data for Twenty-First Century Economic Statistics, (Abraham, Jarmin, Moyer, and Shapiro, eds.), NBER/University of Chicago Press, 2022.
- "Measuring the Gig Economy: Current Knowledge and Open Issues" (co-authored with Katharine Abraham, John Haltiwanger, Kristin Sandusky, and James Spletzer) in in Measuring and Accounting for Innovation in the Twenty-First Century, (Corrado, Haskel, Miranda, and Sichel, eds.) NBER/University of Chicago Press, 2021.
- "Innovation, Productivity Dispersion, and Productivity Growth" (co-authored with Lucia Foster, Cheryl Grim, John Haltiwanger, and Zoltan Wolf in Measuring and Accounting for Innovation in the Twenty-First Century, (Corrado, Haskel, Miranda, and Sichel, eds.) NBER/University of Chicago Press, 2021.
- "High Growth Young Firms: Contribution to Job Growth, Revenue Growth and Productivity" (co-authored with Ron Jarmin, Robert Kulick and Javier Miranda) in Measuring Entrepreneurial Businesses: Current Knowledge and Challenges (Haltiwanger, Hurst, Miranda and Schoar, eds.), NBER/University of Chicago Press, 2017.
- "The Evolution of National Retail Chains: How We Got Here" (co-authored with Lucia Foster, Shawn Klimek, C.J. Krizan, and Scott Ohlmacher), in Handbook of Retail Trade (Basker, eds.), 2015.
- "Labor Market Fluidity and Economic Performance" (co-authored with Steven Davis) in Re-Evaluating Labor Market Dynamics 2014 Jackson Hole Symposium Volume Published by the Federal Reserve Bank of Kansas City, 2015, 17-108.
- "Globalization and Economic Volatility," in *Making Globalization Socially Sustainable* (Bacchetta and Jansen, eds), World Trade Organization/International Labor Organization, 2011, 119-145.
- "Firm Dynamics and Productivity Growth," EIB Papers, Volume 16, No. 1, 2011, 116-136.
- "Adjusted Estimates of Worker Flows and Job Openings in JOLTS" (co-authored with Steven Davis, Jason Faberman, and Ian Rucker), in Labor in the New Economy (Abraham, Harper and Spletzer, eds.) NBER/University of Chicago Press, 2010, 187-215.

- "Measuring the Dynamics of Young and Small Businesses: Integrating the Employer and Non-Employer Businesses," (co-authored with Steven Davis, C.J. Krizan, Ron Jarmin, Javier Miranda, Al Nucci, and Kristin Sandusky), in *Producer Dynamics: New Evidence from Micro Data*, (Dunne, Jensen and Roberts, eds.) NBER/University of Chicago Press, 2009, 329-366.
- "Measuring and Analyzing Cross Country Differences in Firm Dynamics," (co-authored with Eric Bartelsman and Stefano Scarpetta), in *Producer Dynamics: New Evidence from Micro Data*, (Dunne, Jensen and Roberts, eds.) NBER/University of Chicago Press, 2009, 15-76.
- "Entrepreneurship and Job Growth," in *Entrepreneurship, Growth and Public Policy* (Acs, Audretsch and Strom, eds.) Cambridge University Press, 2009, 119-145.
- "Wage Structure and Labor Mobility in the United States," (with John Abowd and Julia Lane" in "The Structure of Wages: An International Comparison" (Lazear and Shaw, ed.), University of Chicago Press, 2009, 81-100.
- "Micro and Macro Data Integration: The Case of Capital," (co-authored with Randy Becker, Ron Jarmin, Shawn Klimek and Daniel Wilson), in *A New Architecture for the National Accounts* (eds. Dale Jorgensen, Steven Landefeld, William Nordhaus), University of Chicago Press, 2006, 541-609.
- "The Relationship Between Human Capital, Productivity and Market Value: Building Up From Microeconomic Evidence" (co-authored with John Abowd, Ron Jarmin, Julia Lane, Paul Lengermann, Kristin McCue, Kevin McKinney, and Kristin Sandusky), in *Measuring Capital in the New Economy* (eds. Carol Corrado, John Haltiwanger and Daniel Sichel), University of Chicago Press, 2005, 153-204.
- "The Spread of ICT and Productivity Growth: Is Europe Really Lagging Behind in the New Economy," (co-authored with Eric Bartelsman, Andrea Bassannini, Ron Jarmin, Stefano Scarpetta, and Thorsten Schank), in *The ICT Revolution*, Oxford University Press (2004).
- "A Statistical Portrait of the New Economy," (co-authored with Ron Jarmin) in the *New Economy Handbook*, Elsevier Academic Press, 2003.
- "Wages, Productivity, and Technology: What Have We Learned from Microeconomic Evidence," in *Technology and the Labor Market*, Kluwer Academic Press, 2002, 171-186.
- "Aggregate Productivity Growth: Lessons from Microeconomic Evidence," (co-authored with Lucia Foster and C.J. Krizan), *New Directions in Productivity Analysis* (eds. Edward Dean, Michael Harper and Charles Hulten), University of Chicago Press, 2001, 303-372.

- “Measuring the Digital Economy,” (co-authored with Ron Jarmin), in Understanding the Digital Economy, (edited by Erik Brynjolfsson and Brian Kahin), MIT Press, 2000, 13-33.
- “Gross Job Flows,” (co-authored with Steven Davis), Handbook of Labor Economics, Volumes 3 and 4, edited by Orley Ashenfelter and David Card, 1999, 2711-2805.
- "Measuring Gross Worker and Job Flows," (co-authored with Steven Davis), in Labor Statistics Measurement Issues, edited by John Haltiwanger, Marilyn Manser and Robert Topel, (Chicago: University of Chicago Press), 1999, 77-122.
- “Small Business and Job Creation in the United States: The Role of New and Young Businesses.” (co-authored with C.J. Krizan), Are Small Firms Important?: Their Role and Impact, edited by Zoltan Acs, Kluwer Academic Publishing Company, 1999, 79-97.
- “Gross Job Flows between Plants and Industries,” (co-authored with Scott Schuh), Federal Reserve Bank of Boston New England Economic Review, March-April 1999, 41-64.
- “Job Creation and Destruction by Employer Size and Age: Cyclical Dynamics.” in Entrepreneurship, SMEs, and the Macroeconomy, Cambridge University Press, 1998, 239-285.
- “Aggregate Productivity and Job Growth: Lessons from the Firm,” in The Rising Tide: Higher Growth for the 21st Century, John Wiley and Sons, 1998.
- "Inventories and Multi-Period Labor Contracts: Implications for Business Cycle Analysis," (co-authored with Louis Maccini) in Inventory Cycle and Monetary Policy, (New York: Springer-Verlag, 1994), 175-205.
- "Job Change in the Manufacturing Sectors of Canada and the United States," (co-authored with John Baldwin and Timothy Dunne) in The Dynamics of Industrial Competition, (Cambridge: Cambridge University Press, 1994).
- "Published Versus Sample Statistics from the ASM: Implications for the LRD," (co-authored with Steven Davis and Scott Schuh), Proceedings from the 1990 Business and Economics Section of the American Statistical Meetings.
- “Alternative Measures of Slackness in the Labor Market and Their Relationship to Wage and Price Inflation,” (co-authored with Mark Plant) in Unemployment and the Structure of Labor Markets, (Oxford, England: Basil Blackwell Ltd., 1987).
- "Layoffs" in the New Palgrave, (Cambridge, England: MacMillan Press Ltd., 1987);
- "The Natural Rate of Unemployment" in the New Palgrave, (Cambridge, England: MacMillan Press Ltd., 1987).

"Temporary Layoffs, Contractual Labor Market Equilibrium, and the Relationship Between Wages and Unemployment," in Current Research in Labor Economics, (Los Angeles: IIR Press), 1984, 21-46.

*Books:*

Measuring Entrepreneurial Businesses: Current Knowledge and Challenges (co-edited with Erik Hurst, Javier Miranda and Antoinette Schoar), NBER/University of Chicago Press, 2017.

Understanding Business Dynamics: An Integrated Data System for America's Future (co-edited with Lisa Lynch and Chris Mackie), (Washington, D.C.: National Academies Press) 2007.

Economic Turbulence: Is A Volatile Economy Good For America?, (co-authored with Clair Brown and Julia Lane), (Chicago: University of Chicago Press) 2006.

Measuring Capital in the New Economy, (co-edited with Carol Corrado and Daniel Sichel), (Chicago: University of Chicago Press), 2005.

The Creation of Employer-Employee Matched Data, (co-edited with Julia Lane, James Spletzer, Jules Theeves, and Kenneth Troske), (Amsterdam: North-Holland) 1999.

Labor Statistics Measurement Issues, (co-edited with Marilyn Manser and Robert Topel), (Chicago: University of Chicago Press), 1999.

Job Creation and Destruction, (co-authored with Steven Davis and Scott Schuh) (Cambridge: MIT Press, 1996); named one of the Outstanding Academic Books of 1996 by *Choice* (January 1997).

*Other Publications:*

"Are Business Applications Early Economic Indicators?" (co-authored with Jose Asturias, Emin Dinlersoz, and Rebecca Hutchinson), American Economic Association Papers and Proceedings, May 2023. .

"Advanced Technology Adoption: Selection or Causal Effects?" (co-authored with Daron Acemoglu, Gary Anderson, David Beede, Catherine Buffington, Eric Childress, Emin Dinlersoz, Lucia Foster, Nathan Goldschlag, Zachary Kroff, Pascual Restrepo, and Nikolas Zolas), American Economic Association Papers and Proceedings, May 2023.

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- "Automation and the Workforce: A Firm-Level View from the 2019 Annual Business Survey," (co-authored with Daron Acemoglu, Gary W. Anderson, David N. Beede, Cathy Buffington, Eric E. Childress, Emin Dinlersoz, Lucia S. Foster, Nathan Goldschlag, Zachary Kroff, Pascual Restrepo), NBER Working Paper 30659, 2022.
- "Opening the Black Box: Task and Skill Mix and Productivity Dispersion,"(co-authored with G. Jacob Blackwood, Cindy Cunningham, Matthew Dey, Lucia S. Foster, Cheryl Grim, Rachel L. Nesbit, Sabrina Wulff Pabilonia, Jay Stewart, Cody Tuttle, Zoltan Wolf), NBER Working Paper 30620, 2022.
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- "Job Displacement and Job Mobility: The Role of Joblessness" (co-authored with Bruce Fallick, Erika McEntarfer, and Matthew Staiger), NBER Working Paper No. 29187, August 2021.
- "Cyclical Worker Flows: Cleansing vs. Sullyng" (co-authored with Henry Hyatt, Erika McEntarfer, and Matthew Staiger), NBER Working Paper No. 28802, May 2021.
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- "Cyclical Reallocation Across Employers by Firm Size and Firm Wage" (co-authored with Henry Hyatt and Erika McEntarfer), NBER Working Paper No. 21235.
- "The Secular Decline in Business Dynamism in the U.S." (co-authored with Ryan Decker, Ron Jarmin and Javier Miranda), June 2014.
- "The Changing Cyclical Dynamics of U.S. Labor Markets", paper presented to the Board of Governors of the Federal Reserve Board, Academic Advisors Panel, Washington, D.C., October 2010.

- “Euler-Equation Estimation for Discrete Choice Models: A Capital Accumulation Application” (co-authored with Russell Cooper and Jon Willis), NBER Working Paper No. 15675, January 2010.
- “Technology and Skill: An Analysis of Within and Between Firm Differences” (co-authored with John Abowd, Julia Lane, Kevin McKinney and Kristin Sandusky), NBER Working Paper No. 13043, April 2007.
- "The Contribution of Restructuring and Reallocation to China's Productivity and Growth," (co-authored with Haiyan Deng and Robert McGuckin with Xu Jianyi & Liu Yaodong & Liu Yuqi,) Economics Program Working Papers 07-04, The Conference Board, Economics Program.
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- “Reconciling Household and Administrative Measures of Self-Employment,” (co-authored with Melissa Bjelland, Kristin Sandusky, and James Spletzer), Working Paper, March 2006.
- “Firm Performance, Workforce Quality and Workforce Churning,” (co-authored with Benjamin Campbell, Hyowook Chiang, Lawrence Hunter, Ron Jarmin, Nicole Nestoriak and Kristin Sandusky), Working Paper, September 2005.
- "Microeconomic Evidence of Creative Destruction in Industrial and Developing Countries," (co-authored with Eric Bartelsman and Stefano Scarpetta), IZA Working Paper No. 1374, October 2004.
- "Internal Labor Markets and Diversification Strategies in Financial Services," (co-authored with Hyowook Chiang, Cheryl Grim, Chip Hunter, Ron Jarmin, Nicole Nestoriak, Kristin Sandusky, and Jeongil Seo), Working Paper, December 2004.

*Professional Activities*

Referee for: American Economic Review, Canadian Economic Journal, Economics Letters, Econometrica, Industrial and Labor Relations Review, International Economic Review, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of International Money and Finance, Journal of Labor Economics, Journal of Macroeconomics, Journal of Money, Credit and Banking, Journal of Political Economy, Review of Economic Studies, Review of Economic Dynamics, Review of Economics and Statistics, Social Science Quarterly, Southern Economic Journal, Quarterly Journal of Economics.

Associate Editor, Journal of Productivity Analysis, 2004-2014.

Reviewer of National Science Foundation Grant Proposals.

Panel Member, National Science Foundation, January 1989 (REU Grant Program)

Panel Member, National Science Foundation, Economics Advisory Panel, 1991-93.

Panel Member, National Science Foundation, Committee of Visitors for Economics Program, 2007.

Member: American Economic Association, Society of Labor Economists, Econometric Society.

Editorial Board: Small Business Economics; Journal of Evolutionary Economics; Journal of Macroeconomics, Journal of Productivity Analysis.

Chair, National Academy of Sciences Panel on "Federal Business Statistics," 2004-2007 (sponsored by the Kauffman Foundation).

Member, AEA Committee on Government Relations, 2011-2014.

Member, AEA Committee on Economic Statistics, 2014-2022.

Chair, AEA Committee on Economic Statistics, 2016-2022.

Member, AEA Search Committee for Editor of Journal of Economic Perspectives, 2013.

Member, AEA Program Committee, 2018.

Member, AEA Nominating Committee, 2019.

Member, SOLE Nominating Committee for Jacob Mincer Prize, 2018, 2019.

Member, NBER/CRIW Executive Committee, 2006-present.

Member, Academic Advisory Committee, Federal Reserve Bank of Dallas, 2024-present.

*List of Dissertation Advisees since 2000 (Placement in parentheses):*

Ana Abras (World Bank) – Chair of Committee

Sushant Acharya (Federal Reserve Bank of New York) – Committee Member

Fabiano Bastos (Bank of England) – Chair of Committee

Sasan Bahktiari (University of New South Wales) – Chair of Committee

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Jake Blackwood (Amherst) – Chair of Committee  
Hyowook Chiang (Welch Associates) – Chair of Committee  
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