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**EDUCATION**

Ph.D. Economics, University of Maryland at College Park, August 2015  
M.A. Economics, University of Maryland at College Park, December 2013  
B.S., B.A. Economics, Political Science (minor Mathematics), Brigham Young University, August 2010

**JOURNAL PUBLICATIONS**

“Declining Dynamism, Allocative Efficiency, and the Productivity Slowdown.” 2017. *American Economic Review: Papers & Proceedings* 107(5): 322-6. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

“Where Has All the Skewness Gone? The Decline of High-Growth (Young) Firms.” 2016. *European Economic Review* 86 (July): 4-23. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

“Declining Business Dynamism: What We Know and the Way Forward.” 2016. *American Economic Review: Papers & Proceedings* 106(5): 203-7. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

“Market Exposure and Endogenous Firm Volatility over the Business Cycle.” 2016. *American Economic Journal: Macroeconomics* 8(1): 148-98. (With Pablo N. D’Erasmus and Hernan Moscoso Boedo).

“The Role of Entrepreneurship in U.S. Job Creation and Economic Dynamism.” 2014. *Journal of Economic Perspectives* 28(3): 3-24. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

**OTHER PUBLICATIONS**

“Book Review: *Big is Beautiful: Debunking the Myth of Small Business*, by Robert D. Atkinson and Michael Lind.” 2019. *Business Economics* 54:145-147.

“Leaving Money on the Table: Declining Responsiveness and the Productivity Slowdown.” 2018. *VoxEU*. (With John Haltiwanger, Ron Jarmin, and Javier Miranda). At <https://voxeu.org/article/declining-responsiveness-and-productivity-slowdown>

“Natural Disasters and the Measurement of Industrial Production: Hurricane Harvey, a Case Study.” 2017. *FEDS Notes*. (With Kimberly Bayard and Charles Gilbert). At <https://www.federalreserve.gov/econres/notes/feds-notes/natural-disasters-and-the-measurement-of-industrial-production-hurricane-harvey-a-case-study-20171011.htm>

“Unraveling the Oil Conundrum: Productivity Improvements and Cost Declines in the U.S. Shale Oil Industry.” 2016. *FEDS Notes*. (With Aaron Flaaen and Maria D. Tito). At <https://www.federalreserve.gov/econresdata/notes/feds-notes/2016/unraveling-the-oil->

[conundrum-productivity-improvements-and-cost-declines-in-the-us-shale-oil-industry-20160322.html](http://conundrum-productivity-improvements-and-cost-declines-in-the-us-shale-oil-industry-20160322.html).

“The Decline of High-Growth Entrepreneurship.” 2016. *VoxEU*. (With John Haltiwanger, Ron Jarmin, and Javier Miranda). At <http://voxeu.org/article/decline-high-growth-entrepreneurship>.

## **WORKING PAPERS**

“Improving the Accuracy of Economic Measurement with Multiple Data Sources: The Case of Payroll Employment Data.” 2019. *Forthcoming in the 2019 NBER CRIW “Big Data for 21<sup>st</sup> Century Economic Statistics” conference volume*. (With Tomaz Cajner, Leland Crane, Adrian Hamins-Puertolas, and Christopher Kurz).

“Changing Business Dynamism and Productivity: Shocks vs. Responsiveness.” 2019. *Revisions requested*. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

“Entrepreneurship and State Taxation.” 2018. *Under review*. (With E. Mark Curtis).

“Business Dynamics in the National Establishment Time Series (NETS).” 2019. *Working paper*. (With Leland Crane). FEDS working paper #2019-034.

“Firm Dynamics and Local Economic Shocks: Evidence from the Shale Oil and Gas Boom.” 2018. *Working paper*. (With Meagan McCollum and Gregory B. Upton Jr.).

“Using Payroll Processor Microdata to Measure Aggregate Labor Market Activity.” 2018. *Working paper*. (With Tomas Cajner, Leland Crane, Adrian Hamins-Puertolas, Christopher Kurz, and Tyler Radler). FEDS working paper #2018-005.

“An Assessment of the National Establishment Time Series (NETS) Database.” 2017. *Working paper*. (With Keith Barnatchez and Leland Crane). FEDS working paper #2017-110.

“Collateral Damage: Housing, Entrepreneurship, and Job Creation.” 2015. *Working paper*.

## **PERMANENT UNPUBLISHED MANUSCRIPTS**

“Declining Business Dynamism: Implications for Productivity?” 2016. Hutchins Center Working Paper no. 23. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

“The Secular Decline in Business Dynamism in the U.S.” 2014. *Mimeo*. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).

## **TEACHING EXPERIENCE**

*Adjunct Professor*, Economics of Entrepreneurship (ECON 469), University of Maryland College Park, 2016-2018

*Teaching Assistant*, Advanced Econometrics (ECON 588), Brigham Young University, Spring 2010

*Teaching Assistant*, Intermediate Econometrics (ECON 388), Brigham Young University, Fall 2009

*Teaching Assistant*, International Relations (PLSC 170/472), Brigham Young University, Fall

2007, Spring 2008, Fall 2008

## CONFERENCE AND SEMINAR PRESENTATIONS

- 2020 (scheduled): Kenan Institute Frontiers of Entrepreneurship 2020, ASSA 2020 (presenter and discussant)
- 2019: Federal Reserve System Energy Conference (discussant, scheduled), JPMCC New Directions in Commodities Research symposium (discussant), CAED, Duke/UNC Entrepreneurship Research Conference (discussant), Resources for the Future, York University, Kenan Institute Frontiers of Entrepreneurship 2019
- 2018: Richmond Fed, Oberlin College, University of Hong Kong, Singapore Management University, Economic History Association (discussant), JPMCC New Directions in Commodities Research symposium, NBER Summer Institute (Entrepreneurship group), OECD/Bank of Canada Global Forum on Productivity, IFN Entrepreneurship and Innovation workshop, Union College, National Association of Realtors, George Mason University, Kenan Institute Frontiers of Entrepreneurship 2018, ASSA 2018
- 2017: Brigham Young University, 2017 Federal Reserve System Energy Meeting, 2017 UNC IDEA Workshop, May 2017 Midwest Macro meetings, NBER State Business Taxation Workshop
- 2016: November 2016 Southern Economics Association meetings, NBER Entrepreneurship and Economic Growth Conference, AREUEA conference (discussant), Drexel University, NBER Entrepreneurship and Economic Growth Pre-Conference
- 2015: George Mason University, Federal Reserve Bank of Minneapolis, Federal Reserve Board, Bureau of Labor Statistics, University of Oregon, Brigham Young University, University of Georgia, University of Mississippi, Heritage Foundation Center for Data Analysis
- 2012-2014: BYU Graduate Student Conference, November 2013 Midwest Macro meetings, 2012 APPAM Fall Research Conference

## OTHER POSITIONS

Referee service: *AEJ: Economic Policy*, *AEJ: Macroeconomics*, *American Economic Review*, *AER: Insights*, *Canadian Journal of Economics*, *Economic Inquiry*, *Economic Journal*, *Economics Letters*, *Energy Economics*, *Energy Journal*, *European Economic Review*, *International Economic Review*, *Journal of Applied Econometrics*, *Journal of Economic Growth*, *Journal of the European Economic Association*, *Journal of Macroeconomics*, *Journal of Money, Credit, & Banking*, *Journal of Political Economy*, *Journal of Public Economics*, *Labour Economics*, *National Science Foundation*, *NBER grant proposals*, *Oxford Bulletin of Economics and Statistics*, *Quarterly Journal of Economics*, *Rand Journal of Economics*, *Regional Science and Urban Economics*, *Research Policy*, *Review of Economic Dynamics*, *Review of Financial Studies*, *Small Business Administration draft study review*, *Small Business Economics*, *Sustainability*, *U.S. Census Bureau/FSRDC proposals*

*Economist*, Center for Economic Studies, U.S. Census Bureau, 2011-2015 (Pathways Program)

*Research Assistant*, Prof. John Haltiwanger, University of Maryland at College Park, 2011-2015

*Short-Term Consultant*, World Bank, 2011

*Research Assistant*, Prof. Kerk Phillips, Brigham Young University, 2009-2010

*Research Assistant*, Prof. Scott Cooper, Brigham Young University, 2008-2010

*Intern Analyst*, Office of International Affairs, U.S. Department of the Treasury, 2009

## REFERENCES

David Byrne	Federal Reserve Board	<a href="mailto:david.m.byrne@frb.gov">david.m.byrne@frb.gov</a>	(202) 452-3587
Pablo D'Erasmus	Philadelphia Federal Reserve	<a href="mailto:pabloderasmo@gmail.com">pabloderasmo@gmail.com</a>	(215) 574-6440
Prof. John Haltiwanger	University of Maryland	<a href="mailto:haltiw@econ.umd.edu">haltiw@econ.umd.edu</a>	(301) 405-3504