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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

ACADEMIC PUBLICATIONS

- “The U.S. Labor Market during the Beginning of the Pandemic Recession.” Forthcoming, *Brookings Papers on Economic Activity*. (With Tomaz Cajner, Leland D. Crane, John Grigsby, Adrian Hamins-Puertolas, Erik Hurst, Christopher Kurz, and Ahu Yildirmaz).
- “Changing Business Dynamism and Productivity: Shocks vs. Responsiveness.” 2020. *American Economic Review* 110(12): 3952-90. (With John Haltiwanger, Ron S. Jarmin, and Javier Miranda).
- “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

- “Tracking the Labor Market with ‘Big Data’.” 2019. *FEDS Notes*. (With Tomaz Cajner, Leland Crane, Adrian Hamins-Puertolas, and Christopher Kurtz). At <https://www.federalreserve.gov/econres/notes/feds-notes/tracking-the-labor-market-with-big-data-20190920.htm>.
- “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>.

“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

“Across the Universe: Policy Support for Employment and Revenue in the Pandemic Recession.” 2021. (With Robert Kurtzman, Byron Lutz, and Christopher Nekarda). FEDS working paper #2020-099.

“Improving the Accuracy of Economic Measurement with Multiple Data Sources: The Case of Payroll Employment Data.” 2019. *Forthcoming in the 2020 NBER CRIW “Big Data for 21st Century Economic Statistics” conference volume*. (With Tomaz Cajner, Leland Crane, Adrian Hamins-Puertolas, and Christopher Kurz).

“Business Exit During the COVID-19 Pandemic: Non-Traditional Measures in Historical Context.” 2020. (With Leland Crane, Aaron Flaaen, Adrian Hamins-Puertolas, and Christopher Kurz). FEDS working paper #2020-089.

“Boom Town Business Dynamics.” 2020. *Working paper*. (With Meagan McCollum and Gregory B. Upton Jr.). Previously circulated as “Firm Dynamics and Local Economic Shocks.” FEDS working paper #2020-081.

“Entrepreneurship and State Taxation.” 2018. *Working paper*. (With E. Mark Curtis).

“Research with Private Sector Business Microdata: The Case of NETS/D&B.” 2020. *Working paper*. (With Leland Crane). Previously circulated as “Business Dynamics in the National Establishment Time Series (NETS),” FEDS working paper #2019-034.

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

PERMANENT UNPUBLISHED MANUSCRIPTS

- “Tracking Labor Market Developments during the COVID-19 Pandemic: A Preliminary Assessment.” 2020. *Working paper*. (With Tomaz Cajner, Leland D. Crane, Adrian Hamins-Puertolas, and Christopher Kurz). FEDS working paper #2020-030.
- “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.
- “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

- 2021: ASSA 2021
- 2020: Banca d'Italia & FRB joint conference on nontraditional data, Federal Reserve System Macro conference (discussant), CAED seminar series, ITAM Business School, NBER Summer Institute (entrepreneurship group), Workshop on Entrepreneurial Finance and Innovation (discussant), New York Fed, Southern Methodist University O'Neil Center, ASSA 2020 (presenter and discussant), Kenan Institute Frontiers of Entrepreneurship
- 2019: Brookings Hamilton Project, Federal Reserve System Energy Conference (discussant), 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

PROFESSIONAL SERVICE

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

Program and report committees: Kenan Institute Entrepreneurship Trends Report – Ecosystems Advisory Committee (annual report, 2020), Society of Government Economists (2019) ASSA meetings, Mid-West Macroeconomics Spring Meeting (2017)

PREVIOUS POSITIONS

Economist/Senior Economist, Federal Reserve Board, 2015-2020
Member, Conference on Research in Income and Wealth (CRIW), 2019-present
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	david.m.byrne@frb.gov	(202) 452-3587
Pablo D'Erasmus	Philadelphia Federal Reserve	pabloderasmo@gmail.com	(215) 574-6440
Prof. John Haltiwanger	University of Maryland	haltiwang@econ.umd.edu	(301) 405-3504