

Curriculum Vitae (July 2020)

DANIEL J. WILSON

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POSITIONS HELD

Federal Reserve Bank of San Francisco	San Francisco, California
VICE PRESIDENT, MACROECONOMIC AND MICROECONOMIC RESEARCH	2018 – PRESENT
RESEARCH ADVISOR	2013 – 2018
SENIOR ECONOMIST	2007 – 2013
ECONOMIST	2001 – 2007
University of Michigan, Department of Economics	Ann Arbor, Michigan
VISITING LECTURER (INTERMEDIATE MACROECONOMICS)	2012
University of Barcelona, Barcelona Institute of Economics (IEB)	Barcelona, Spain
VISITING SCHOLAR	MAY 2009

PROFESSIONAL ACTIVITIES

Board of Editors, <i>American Economic Journal: Economic Policy</i>	2017 - PRESENT
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FIELDS OF SPECIALIZATION

Public Finance, Empirical Macroeconomics, Applied Microeconomics

EDUCATION

PH.D. ECONOMICS, <i>University of Maryland</i>	2001
M.A. ECONOMICS, <i>University of Maryland</i>	1998
B.A. ECONOMICS, <i>University of Virginia</i>	1995

REFEREED PUBLICATIONS

“Measuring News Sentiment.” Forthcoming at *Journal of Econometrics* (with Adam Shapiro and Moritz Sudhof).

“Clearing the Fog: The Predictive Power of Weather for Employment Reports and their Asset Price Responses.” *American Economic Review: Insights*. 1(3), pp. 373-388.

“Tax Competition Among U.S. States: Racing to the Bottom or Riding on a Seesaw?” *Journal of Public Economics*, 155, Nov. 2017, pp. 147-163 (with Robert Chirinko).

“The Effect of State Taxes on the Geographical Location of Top Earners: Evidence from Star Scientists.” *American Economic Review*, 107(7), July 2017, pp. 1858-1903 (with Enrico Moretti).

“Are State Governments Roadblocks to Federal Stimulus? Evidence From Highway Grants in the 2009 Recovery Act.” *American Economic Journal: Economic Policy*, 9 (2), May 2017 (with Sylvain Leduc).

“State Incentives for Innovation, Star Scientists and Jobs: Evidence from Biotech.” *Journal of Urban Economics*, 79 (1), January 2014, pp. 20-38 (with Enrico Moretti).

“Roads to Prosperity or Bridges to Nowhere? Theory and Evidence on the Impact of Public

Infrastructure Investment." *NBER Macroeconomics Annual*, 2012, Vol. 27 (2013), Daron Acemoglu, Jonathan Parker, and Michael Woodford, editors, pp. 89-142 (with Sylvain Leduc).

"Relative Status and Well-Being: Evidence from U.S. Suicide Deaths." *Review of Economics and Statistics*, 95 (5), December 2013, pp. 1480-1500 (with Mary Daly and Norm Johnson).

"Fiscal Spending Jobs Multipliers: Evidence from the 2009 American Recovery and Reinvestment Act." *American Economic Journal: Economic Policy*, 4(3), August 2012, pp. 251-282.

"Dark Contrasts: The Paradox of High Rates of Suicide in Happy Places." *Journal of Economic Behavior and Organization*, 80 (3), December 2011, pp. 435-442 (with Andrew Oswald, Mary Daly, and Stephen Wu).

"Can Lower Taxes Be Bought? The Role of Business Rent-Seeking in Tax Competition Among U.S. States." *National Tax Journal*, 63(4, Part 2), Dec. 2010, pp. 967-994 (with Robert Chirinko).

"Beggar Thy Neighbor? The In-State, Out-of-State, and Aggregate Effects of R&D Tax Credits." *Review of Economics and Statistics*, 91(2), May 2009, pp. 431-36.

"Happiness, Unhappiness, and Suicide: An Empirical Assessment." *Journal of the European Economic Association*, 7 (2-3), April 2009, pp. 539-49 (with Mary Daly).

"IT and Beyond: The Contribution of Heterogeneous Capital to Productivity." *Journal of Business and Economic Statistics*, 27(1), Jan. 2009, pp. 52-70.

"State Investment Tax Incentives: A Zero-Sum Game?" *Journal of Public Economics* 92(12), Dec. 2008, pp. 2362-2384 (with Robert Chirinko).

"Investment Behavior of U.S. Firms over Heterogeneous Capital: A Snapshot." *Review of Income and Wealth* 54 (2), June 2008, pp. 269-78.

"What Do We Know about the Interstate Economic Effects of State Tax Incentives?," *Georgetown Journal of Law and Public Policy* IV (1), Winter 2006, pp. 133-64 (with Kirk Stark).

"Importing Technology," *Journal of Monetary Economics* 51(1), Jan. 2004 (with Francesco Caselli).

"Quantifying Embodied Technological Change," *Review of Economic Dynamics* 7(1), January 2004, pp. 1-26 (with Plutarchos Sakellaris).

"Embodying Embodiment in a Structural, Macroeconomic Input-Output Model," *Economic Systems Research* 15(3), September 2003, pp. 371-98.

"Is Embodied Technological Change the Result of Upstream R&D? Industry-Level Evidence," *Review of Economic Dynamics* 5, April 2002, pp. 285-317.

"Estimating Returns To Scale: Lo, Still No Balance," *Journal of Macroeconomics* 22(2), Spring 2000, pp. 285-314.

WORKING PAPERS

"Weather, Social Distancing, and the Spread of COVID-19." FRBSF Working Paper 2020-23, June 2020.

"Taking the Fed at its Word: A New Approach to Estimating Central Bank Objectives using Text Analysis." FRBSF Working Paper 2019-02, June 2019 (with Adam Shapiro). ***R&R at Review of Economic Studies***

"Taxing Billionaires: Estate Taxes and the Geographical Location of the Forbes 400." FRBSF Working Paper 2019-25, Oct. 2019 (with Enrico Moretti). ***Under Review***

"Job Creation Tax Credits, Fiscal Foresight, and Job Growth: Evidence from U.S. States." FRBSF Working Paper 2010-25, February 2016 (with Robert Chirinko).

"Inequality and Mortality: New Evidence on an Old Question." FRBSF Working Paper 2013-13, May 2013. (with Mary Daly).

"A State Level Database for the Manufacturing Sector: Construction and Sources." FRBSF Working paper 2009-21, October 2009 (with Robert Chirinko).

WORK IN PROGRESS

"The Local Economic Impact of Natural Disasters" (with Brigitte Roth Tran). Presented at 2018 Federal Reserve Regional Analysis conference, 2019 AERE Annual Meetings, and 2020 AEA Meetings.

"The Cross-Geographical Phillips Curve" (with Sylvain Leduc)

"Economic Outbreaks: Estimating How Local Economic Shocks Spread Across Time and Space" (with Bart Hobijn and Enrico Moretti)

OTHER PUBLICATIONS

"The Evolution of the FOMC's Explicit Inflation Target," *FRBSF Economic Letter* 2019-12 (with Adam Shapiro)

"Does Ultra-Low Unemployment Spur Rapid Wage Growth?" *FRBSF Economic Letter* 2019-02 (with Sylvain Leduc and Chitra Marti)

"Fiscal Policy in Good Times and Bad" *FRBSF Economic Letter* 2018-18 (with Tim Mahedy).

"Has the Wage Phillips Curve Gone Dormant?" *FRBSF Economic Letter* 2017-30 (with Sylvain Leduc).

"What's in the News? A New Economic Indicator" *FRBSF Economic Letter* 2017-10 (with Adam Shapiro).

"How Important Is Information from FOMC Minutes?" *FRBSF Economic Letter* 2016-37 (with Fernando Nechio).

"Clearing the Fog: The Effects of Weather on Jobs," *FRBSF Economic Letter* 2016-29 (with Catherine van der List).

"Residual Seasonality and Monetary Policy," *FRBSF Economic Letter* 2015-27 (with Glenn Rudebusch and Ben Pyle).

"The Puzzle of Weak First-Quarter GDP Growth" *FRBSF Economic Letter* 2015-16 (with Glenn Rudebusch and Tim Mahedy).

"Competing for Jobs: Local Taxes and Incentives" *FRBSF Economic Letter* 2015-06.

"Infrastructure Spending as Fiscal Stimulus: Assessing the Evidence." *Review of Economics and Institutions*, 5 (1), Winter 2014, pp. 1-24 (with Sylvain Leduc).

"Innovation and Incentives: Evidence from Biotech" *FRBSF Economic Letter* 2014-37 (with Enrico Moretti).

"Fueling Road Spending with Federal Stimulus" *FRBSF Economic Letter* 2014-25 (with Sylvain Leduc).

"Taxes, Transfers, and State Economic Differences" *FRBSF Economic Letter* 2013-36 (with Israel Malkin).

"Fiscal Headwinds: Is the Other Shoe About to Drop?" *FRBSF Economic Letter* 2013-16.

"Highway Grants: Roads to Prosperity?" *FRBSF Economic Letter* 2012-35.

"U.S. Fiscal Policy: Headwind or Tailwind?" *FRBSF Economic Letter* 2012-20.

"Government Spending: An Economic Boost?" *FRBSF Economic Letter* 2012-04.

"Empirical Macroeconomics Using Geographical Data: Guest Editors' Introduction," *B.E. Journal of Macroeconomics*, 12(2), March 2012 (with Chris Foote, Erik Hurst, and Atif Mian).

"What's in Your Wallet? The Future of Cash" *FRBSF Economic Letter*, 2011-33.

"Is the Recent Productivity Boom Over?" *FRBSF Economic Letter*, 2010-28.

"Fiscal Crises of the States: Causes and Consequences" *FRBSF Economic Letter*, 2010-20.

"The U.S. and World Economic Geography Before and After the Downturn: Conference Summary" *FRBSF Economic Letter*, 2010-13.

"State Business Taxes and Investment: State-by-State Simulations" *FRBSF Economic Review*, 2010 (with Robert Chirinko).

"Are Fiscal Stimulus Funds Going to the "Right" States?" *FRBSF Economic Letter*, 2009-14.

"Tax Credits for Job Creation and Retention: What Can We Learn from the States?" *FRBSF Economic Letter*, 2009-08.

"Research on the Effects of Fiscal Stimulus: Symposium Summary" *FRBSF Economic Letter*, 2008-20.

"Recent Trends in Economic Volatility: Conference Summary" *FRBSF Economic Letter*, 2008-16.

"User Cost" in Darity, William A., Jr. *International Encyclopedia of the Social Sciences*, 2nd edition. Detroit: Macmillan Reference USA, 2008.

"State Investment Tax Incentives: What are the Facts?" *NTA Proceedings of 99th Annual Conference on Taxation*, 2007, pp. 36-44 (with Robert Chirinko).

"State Investment Tax Incentives: A Few Facts" *State Tax Notes* 43(8), February 26, 2007 (with Robert Chirinko).

"Relative Comparisons and Economics: Empirical Evidence" *FRBSF Economic Letter*, 2007-30.

"Changes in Income Inequality across the US" *FRBSF Economic Letter*, 2007-26.

"Micro and Macro Data Integration: The Case of Capital", in: Jorgenson, Landefeld, and Nordhaus, eds., *A New Architecture for the U.S. National Accounts*, U. of Chicago Press, 2006 (with R. Becker, J. Haltiwanger, R. Jarmin, and S. Klimek).

"The Mystery of Falling State Corporate Income Taxes" *FRBSF Economic Letter*, 2006-35.

"Productivity Growth: Causes and Consequences – Conference Summary" *FRBSF Economic Letter*, 2006-2.

"The Rise and Spread of State R&D Tax Credits" *FRBSF Economic Letter*, 2005-26.

"Are State R&D Tax Credits Constitutional? An Economic Perspective" *FRBSF Economic Letter*, 2005-11.

"Do Differences in Countries' Capital Composition Matter?" *FRBSF Economic Letter*, 2004-09.

"Are we running out of new ideas? A Look at Patents and R&D" *FRBSF Economic Letter*, 2003-26.

"Where to Find the Productivity Gains from Innovation?" *FRBSF Economic Letter*, 2003-04.

"Productivity in the Twelfth District" *FRBSF Economic Letter*, 2002-33.

"ETC (embodied technological change), etc." *FRBSF Economic Letter*, 2002-33.

TEACHING

University of Michigan

INTERMEDIATE MACROECONOMICS (ECON 402)

FALL 2012

(3 hrs/week lecture, **335 students**; 1 hr/week honors discussion section, **20 students**)

GRANTS/AWARDS

1. Co-Principal (with Robert Chirinko) on \$26,500 “Roadmap for an Entrepreneurial Economy Initiative” grant from Georgia Tech School of Management.
2. Co-Principal (with Robert Chirinko) on \$10,000 grant from Upjohn Institute for “Employment Tax Credits: Evidence from the States.”
3. National Institute of Aging research support (data funding) for project, “Relative Status and Well-Being: Evidence from U.S. Suicide Deaths.”

MEDIA RELATIONS

Live interviews on *Bloomberg TV* and *National Public Radio* (*Marketplace* and *To The Point*). Also appeared on *CSPAN2* for Brookings Conference panel on public investment.

Interviewed or cited by *Wall Street Journal*, *New York Times*, *The Washington Post*, *The Economist*, *CNBC*, *Financial Times*, *Forbes*, *AFP*, *Il Sol*, *Los Angeles Times*, *San Francisco Chronicle*, and *Oakland Tribune*.

PROFESSIONAL AFFILIATIONS

Member of American Economic Association, Econometric Society, National Tax Association, Urban Economics Association

PROFESSIONAL SERVICE

Referee for: *American Economic Review*, *Econometrica*, *Quarterly Journal of Economics*, *Journal of Political Economy*, *Econometrica*, *Review of Economics and Statistics*; *Review of Economic Studies*; *Review of Financial Studies*; *Journal of Monetary Economics*; *Economic Journal*; *Journal of Business and Economic Statistics*; *Journal of European Economic Association*; *Journal of Public Economics*; *American Economic Journal: Economic Policy*, *American Economic Journal: Macro*; *American Economic Journal: Applied Economics*; *European Economic Review*; *International Economic Review*; *Journal of Urban Economics*; *Journal of International Economics*; *Review of Economic Dynamics*; *Journal of Money, Credit, and Banking*; *Journal of Economic Dynamics and Control*; *Journal of Economic Growth*; *National Tax Journal*; *International Tax and Public Finance*; *Economic Systems Research*; *Journal of Productivity Analysis*; *Canadian Journal of Economics*; *Southern Economic Journal*; *Journal of Macroeconomics*; *Public Finance and Management*; *Economic Development Quarterly*; *Research Policy*; *Health Economics*; *Health Policy*; and *B.E. Journal of Economic Analysis & Policy*.

Proposal reviewer for National Science Foundation, Center for Economic Studies (U.S. Census Bureau), and Swiss National Science Foundation.

Consulting

IMF, Washington, DC. Consulted, IMF Fiscal Monitor (Dec. 2015).

National Academy of Sciences, Washington, DC. Prepared report on “Should Transportation Spending be included in a Stimulus Program?” for Transportation Research Board’s Committee on “Transportation Investments in Response to Economic Downturns” (Sept. 2012).

National Academy of Sciences and **National Institutes of Health**, San Francisco, CA. Presented on “Fiscal Incentives for Research” to the Next Generation Researchers Initiative Committee (Sept. 2017).

Conference Organization

Co-organizer of Tech Economist MeetUp conference, San Francisco, CA, June 2017.

Co-organizer of the biennial conference sponsored by the Center for the Study of Innovation and Productivity (CSIP) at Federal Reserve Bank of San Francisco, November 2005 and 2007.

Co-organizer (with Chris Foote, Atif Mian, and Erik Hurst) of joint Berkeley Electronic Journal-Macroeconomics and Federal Reserve Bank of San Francisco "Conference on Empirical Macroeconomics Using Geographical Data," March 18, 2011.

Co-organizer of 2013 Annual Conference of Federal Reserve Committee on Regional Economic Analysis at Federal Reserve Bank of San Francisco, October 2013.

INVITED PRESENTATIONS

University of Utah Tax Invitational (U-TAXI). June 2019. Presented "Taxing Billionaires: Estate Taxes and the Geographical Location of the Forbes 400."

Association of Environmental and Resource Economics (AERE) Annual Meetings. May 2019. Presented "The Local Economic Impact of Natural Disasters."

Banco Central do Brasil Annual Inflation Targeting Conference. Rio de Janeiro. May 2019. Presented "Taking the Fed at its Word: A New Approach to Estimating Central Bank Objectives using Text Analysis."

University of Nevada, Reno, NV. April 2019. Presented "Taxing Billionaires: Estate Taxes and the Geographical Location of the Forbes 400."

NABE Tech Economists Meet-Up. San Francisco, CA. April 2019. Presented "Taking the Fed at its Word: A New Approach to Estimating Central Bank Objectives using Text Analysis."

Federal Reserve Board of Governors, Applied Micro Seminar Series. Nov. 2018. Presented "Clearing the Fog: The Predictive Power of Weather for Employment Reports and their Asset Price Responses"

University of Virginia, Darden School of Business. Charlottesville, VA, Feb. 2018. Presented "Clearing the Fog: The Predictive Power of Weather for Employment Reports and their Asset Price Responses."

Association of Environmental and Resource Economics (AERE), ASSA Meetings, Philadelphia, PA, Jan. 2018. Presented "The Impact of Weather on Local Employment: Using Big Data on Small Places."

Urban Economics Association Meetings, Vancouver, Nov. 2017. Presented "The Impact of Weather on Local Employment: Using Big Data on Small Places."

XII Conference on Real-Time Data Analysis, Methods and Applications, Banco de Espana, Madrid, Oct. 2017. Presented "Clearing the Fog: The Predictive Power of Weather for Employment Reports and their Asset Price Responses."

NBER Summer Institute, Workshop on Forecasting and Empirical Methods, Cambridge, MA, July 2017. Presented "Clearing the Fog: The Predictive Power of Weather for Employment Reports and their Asset Price Responses."

Urban Economics Association European Meetings, Copenhagen, May 2017. Presented "The Impact of Weather on Local Employment: Using Big Data on Small Places."

Society of Economic Dynamics, Toulouse, France, June 2016. Presented "The Effect of State Taxes on the Geographical Location of Top Earners: Evidence from Star Scientists."

International Institute of Public Finance, Lake Tahoe, NV, August 2015. Presented "Job Creation Tax Credits, Fiscal Foresight, and Job Growth: Evidence from U.S. States."

Urban Economic Association, Portland, OR, Nov. 2015. Presented "Taxation, Migration, and Innovation: Do Star Scientists Move in Response to Interstate Tax Differentials?"

AEA Meetings, Boston, MA, Jan 2015. Presented "The Declining Labor Share: The View from the States"

NTA Meetings, Tampa, FL, Nov 2014. Presented "Taxation, Migration, and Innovation: Do Star Scientists Move in Response to Interstate Tax Differentials?"

Migration Workshop, Barcelona Graduate School of Economics Summer Forum, June 17, 2014. Presented "Taxation, Migration, and Innovation: Do Star Scientists Move in Response to Interstate Tax Differentials?"

IZA Annual Migration Conference, May 31, 2014, Bonn, Germany. Presented "Taxation, Migration, and Innovation: Do Star Scientists Move in Response to Interstate Tax Differentials?"

Workshop on Fiscal Federalism, Barcelona Institute of Economics (IEB), Barcelona, June 14, 2013. Presented "Are State Governments Roadblocks to Federal Stimulus? Evidence From Highway Grants in the 2009 Recovery Act."

Society of Economic Dynamics, Cyprus, June 21-24, 2012. Presented "Roads to Prosperity or Bridges to Nowhere? Theory and Evidence on the Impact of Public Infrastructure Investment."

NBER Macroeconomics Annual Conference, Cambridge, MA, April 20, 2012. Presented "Roads to Prosperity or Bridges to Nowhere? Theory and Evidence on the Impact of Public Infrastructure Investment."

Western Regional Science Association, Kauai, HI, Feb. 10, 2012. Presented "Fiscal Spending Jobs Multipliers: Evidence from the 2009 American Recovery and Reinvestment Act."

NBER Summer Institute, Workshop on Public Economics, Taxation, and Social Insurance, Cambridge, MA, July 26, 2011. Presenting "Fiscal Spending Jobs Multipliers: Evidence from the 2009 American Recovery and Reinvestment Act."

ASSA Meetings, AEA session "Taxes" Denver, Jan. 7, 2011. Presented "Job Creation Tax Credits: Whether, When, and Where?"

National Tax Association Meetings, Chicago, Nov. 20, 2010. Presented "Fiscal Spending Jobs Multipliers: Evidence from the 2009 American Recovery and Reinvestment Act."

Econometric Society World Congress, Shanghai, Aug. 18, 2010. Presented "Tax Competition among U.S. States: Racing to the Bottom or Riding on a See-saw?"

University of Washington Conference on Regional Institutions for Innovation and Productivity, Seattle, April 9, 2010. Presented "Technology Innovations: Powering or Pummeling the Economy?"

Urban Economic Association, San Francisco, Nov. 19, 2009. Presented "Job Creation Tax Credit: Whether, When, and Where?"

North American Regional Science Association, Denver, Nov. 19, 2009. Presented "Job Creation Tax Credit: Whether, When, and Where?"

CSIP "Happiness and Economics" Workshop, San Francisco, Sept. 11, 2009. Presented "What Can Happiness Research Learn from Suicide Data?"

Western Regional Science Association Meetings, Napa, CA, Feb. 24, 2009. Presented "Can Lower Taxes Be Bought? The Role of Business Rent-Seeking in Tax Competition Among U.S. States."

University of Tennessee Conference on Mobility And Tax Policy: Do Yesterday's Taxes Fit Tomorrow's Economy?, Knoxville, Oct. 2, 2008. Presented "Can Lower Taxes Be Bought? The Role of Business Rent-Seeking in Tax Competition Among U.S. States."

European Economic Association Meetings, Milan, Aug. 31, 2008. Presented "Happiness, Unhappiness, and Suicide."

Western Regional Science Association Meetings, Kona, HI, Feb. 20, 2008. Presented "Tax Competition and Factor Mobility: Evidence from the U.S. States."

ASSA Meetings, AEA session "Taxes and Factor Mobility", New Orleans, Jan. 6, 2008. Presented "Tax Competition and Factor Mobility: Evidence from the U.S. States."

Canadian Public Economics Group Session, Canadian Economic Assoc. Meetings, Halifax, May 31, 2007. Presented "Beggars Thy Neighbor? The In-State, Out-of-State, and Aggregate Effects of R&D Tax Credits."

North American Regional Science Council Meetings, Toronto, Nov. 18, 2006. Presented "State Investment Tax Incentives: A Zero-Sum Game?"

National Tax Association Meetings, Boston, Nov. 16, 2006. Presented "State Investment Tax Incentives: What are the Facts?"

American Enterprise Institute, Conference on "Federal Research Tax Credit: A New Lease on Life," Washington, D.C., Nov. 15, 2007. Presented "Effectiveness of R&D Tax Credits: Evidence from the States."

SOLE Meetings, Cambridge, MA, May 5, 2006. Presented "Who Do We Look To? Relative Income, Reference Groups, and Utility?"

ASSA Meetings, AEA session "Relative Income and Utility," Boston, Jan. 6, 2006. Presented "Keeping Up with the Joneses and Staying Ahead of the Smiths: Evidence from Suicide Data."

North American Regional Science Council Meetings, Las Vegas, Nov. 10, 2005. Presented "Beggars Thy Neighbor? The In-State vs. Out-of-State Impact of State R&D Tax Credits."

Inequality and Utility: Experimental and Empirical Approaches, MiRe Workshop, Paris-Jourdan Sciences Economiques (PSE), Paris, June 10-11, 2005. Presented "Keeping Up with the Joneses and Staying Ahead of the Smiths: Evidence from Suicide Data."

SOLE/EALE Meetings, San Francisco, CA, June 3-5, 2005. Presented "Keeping Up with the Joneses and Staying Ahead of the Smiths: Evidence from Suicide Data."

ASSA Meetings, SGE session "Technology: Diffusion, Productivity, and Prices," Philadelphia, PA, January 7, 2005. Presented "IT and Beyond: The Contribution of Heterogeneous Capital to Productivity."

NBER Summer Institute, "Macroeconomics and Productivity" (organized by Basu and Berndt), Cambridge, MA, July 21, 2004. Presented "IT and Beyond: The Contribution of Heterogeneous Capital to Productivity."

Architecture for the National Accounts Conference, (organized by Jorgenson, Landefeld, and Nordhaus), Washington, DC, April 16-17, 2004. Presented "Micro and Macro Data Integration: The Case of Capital" (co-authored with Becker, Haltiwanger, Jarmin, and Klimek).

R&D, Education, and Productivity (organized by Berndt, Hulten, Mairesse, and Trajtenberg), Paris, France, August 26, 2003. Presented "Importing Technology" (co-authored with Francesco Caselli).

Carnegie-Rochester Conference on Public Policy, Rochester, NY, April 25, 2003. Presented "Importing Technology" (co-authored with Francesco Caselli).

Technological Change, conference sponsored by Federal Reserve Bank of San Francisco, November 14, 2002. Presented "Importing Technology" (co-authored with Francesco Caselli).

14th International Conference on Input-Output Techniques, Montreal, Quebec, Canada, October 14, 2002. Presented "Embodying Embodiment in a Structural, Macroeconomic Input-Output Model."

ASSA Meetings, AEA session "New Perspectives on the Embodiment Hypothesis," Atlanta, GA, January 6, 2002. Presented "Quantifying Embodied Technological Change" (co-authored with Plutarchos Sakellaris).

Productivity Growth: A New Era?, conference sponsored by Federal Reserve Bank of New York, November 2, 2001. Presented "Is Embodied Technological Change the Result of Upstream R&D? Industry-Level Evidence."

NBER Summer Institute, "Output and Price Measurement" (organized by Berndt, Hulten, and Wilcox), Cambridge, MA, July 31, 2001. Presented "Is Embodied Technological Change the Result of Upstream R&D? Industry-Level Evidence."

Invited seminar series presentations (partial list)

U. of Pompeu Fabra; Stanford, UC Berkeley (Econ. and Haas); U. of Michigan; UC Davis; U. of Virginia; U. of Maryland; U. of Barcelona; U. of Nevada at Reno; U. of Lugano, U. of Basel; U. of Lausanne; ETH Zurich; Federal Reserve Board; Federal Reserve Banks of San Francisco, New York, Boston, Chicago, Cleveland,

and Kansas City; Bureau of Labor Statistics; Center for Economic Studies (Census Bureau) Bureau of Economic Analysis, Upjohn Institute.

Non-technical presentations

Numerous (~ 3 per year) non-technical presentations on “Economic Outlook” to FRBSF Boards of Directors (San Francisco, Los Angeles, Seattle, Portland, and Salt Lake City), composed of top business leaders of major U.S. multinational companies and financial institutions.

National Association of Business Economists (NABE), Tech Economics Conference, Seattle, WA, Nov. 2017. Panel on “Text Analytics.”

Brookings Hutchins Center on Fiscal and Monetary Policy, Washington, DC, Jan. 2017. Panel on “From bridges to education: Best bets for public investment.”

National Academy of Sciences and **National Institutes of Health**, San Francisco, CA, Sept. 2017. Presented “Fiscal Incentives for Research” to the Next Generation Researchers Initiative Committee.

PERSONAL STATUS

Married, two children. U.S. citizen.