

October 18, 2020

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Department of Economics
University of Minnesota
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Date of Birth: October 4, 1962

Citizenship: United States

Education:

Stanford University, Ph.D. (Economics), 9/84 – 9/89

Thesis: *Computation and Application of Equilibrium Models with Distortionary Taxes*

Boston College, B.S. (Mathematics and Economics), 9/80 – 5/84

Honors: Summa Cum Laude, Phi Beta Kappa

University of Minnesota, non-degree, (Scientific Computation), 9/92 – 3/93

Work Experience:

Director, Heller-Hurwicz Economics Institute, University of Minnesota, 7/16–present

Professor, Department of Economics, University of Minnesota, 1/14–present

Consultant, Federal Reserve Bank of Minneapolis, 1/14–present

Research Associate, National Bureau of Economic Research, EFG & AP, 9/14–present

Research Economist, National Bureau of Economic Research, AP program, 4/07–9/14

Monetary Adviser, Federal Reserve Bank of Minneapolis, 11/03–1/14

Senior Economist, Federal Reserve Bank of Minneapolis, 7/95–11/03

Director, Institute for Empirical Macroeconomics, 11/94–9/97, 11/00–9/02

Adjunct Professor, University of Minnesota, 4/93–1/14

Economist, Federal Reserve Bank of Minneapolis, 7/92–6/95

Research Economist, National Bureau of Economic Research, EFG program, 3/92–9/14

Assistant Professor, Duke University, 9/89–8/93

Teaching Experience:

Macroeconomic theory, undergraduate-level and introductory graduate-level

Duke University, 1989-1992

University of Minnesota, 2014–2015

Macroeconomic theory, graduate-level topics

Duke University, 1989-1992

University of Minnesota, 1995, 1999, 2000, 2011, 2013–2019

Stockholm School of Economics short course, May 2000

University of California at Los Angeles, short course, June 2001

IMF, short course, February 2006

American Economic Association Continuing Education, January 2015

European University Institute short course, May 2015

Development, graduate-level topics

University of Minnesota, 1995, 1997–1998, 2000–2003

Financial economics, graduate-level topics

University of Minnesota, 2003–2010

Computational methods, graduate-level topics

European University Institute short course, September 1996

University of Pennsylvania short course, February 1997

Arizona State University, Spring 2006

Universidade do Minho short course, July 2007

University of Minnesota, 2015–2019

Professional Affiliations:

Visiting Fellow, Hoover Institution, Stanford University, 2018–2020

President, Society for Economic Dynamics, June 2018 – present

Associate Editor, *American Economic Review*, May 2018 – present

President-elect, Society for Economic Dynamics, December 2017

President, Midwest Economics Association, March 2017-18

President-elect, Midwest Economics Association, March 2016-17

Member, Minnesota Population Center Advisory Board, June 2016 – present

Program Co-Chair, NBER EFG Winter Meetings, February 2016

Member, Program Committee, American Economic Association, Winter 2014

Fellow, Econometric Society, elected November 2012

Member, Program Committee, Econometric Society Meetings, Winter 2013

Fellow, Society for the Advancement of Economic Theory, elected July 2011

Member, BEA Advisory Committee, December 2009 – present

Member, AEA Ad Hoc Committee on Mentoring Workshops, January 2007

Member, Program Committee, Econometric Society Meetings, Winter 2007

Program Co-Chair, Econometric Society Meetings, Summer 2006

Member, AEA Nominating Committee, 2006 and 2007
Member, Program Committee, Econometric Society World Congress, Summer 2005
Program Co-Chair, Minnesota Workshop in Macroeconomic Theory, Summer 2003
Member, AEA Executive Committee, January 2003 – January 2006
Program Co-Chair, 2nd Annual CV Starr/RED Meeting, New York, October 2002
Editor, *Review of Economic Dynamics*, August 2002 – April 2012
Member, AEA Committee on Economic Statistics, March 2002 – December 2004
Advisory Board, *Macroeconomic Dynamics*, 2002
Program Chair, Society for Economic Dynamics Meeting, Stockholm Sweden, 2001
Associate Editor, *Review of Economic Dynamics*, December 1999 – August 2002
Book Review Editor, *Macroeconomic Dynamics*, December 1996 – April 2002
Treasurer, Society for Economic Dynamics, 1992 – 2015

Fellowships and Grants:

Joint Statistical Research Program, 2020
Title: “Tax Compliance of Intangible-Intensive Businesses”
National Science Foundation, Grant# SES-1657891, 7/17 – 6/20
Title: “The Impact of Intangible Investments on the Macroeconomy”
National Science Foundation, Grant# SES-0422539, 1/04 – 12/06
(Edward Prescott, P.I.)
Title: “Studies in Aggregate Analyses”
National Science Foundation, Grant# SES-0136885, 1/02 – 12/04
(Patrick Kehoe, P.I.)
Title: “Asset Market Frictions in International Business Cycle Models”
Minnesota Supercomputer Institute, 7/93 – 6/95
National Science Foundation, Grant # SES-9122233, 5/92 – 5/94
(with Ramon Marimon and Thomas Sargent)
Title: “Adaptive Learning in Games and Dynamic Economies”
National Science Foundation, Grant # SES-9108758, 7/91 – 6/93
Title: “Distributional Effects of Distortionary Taxation”
Duke University Research Council Grant, 7/90 – 6/93
North Carolina Supercomputing Center, 4/90 – 6/93
Stanford Graduate Fellowship, 1984 – 1985

Invited Lectures:

Joe Tiao Lecture, Kansas State University, April 2010
Society for Economic Dynamics, Plenary Lecture, July 2010
Society for Computational Economics, Plenary Lecture, July 2010

Annual Workshop of the Australasian Macro Society, Keynote Lecture, August 2016
Midwest Economic Association, Presidential Lecture, March 2018
North American Econometric Society Summer Meeting, Cowles Lecture, June 2018
Midwest Macroeconomics Meetings, Plenary Lecture, November 2018
Latin American Econometric Society Meeting, Keynote Lecture, November 2018
California Macro Conference, Keynote Lecture, October 2019

Publications:

- “Sweat Equity in U.S. Private Business,” (with A. Bhandari), *Quarterly Journal of Economics*, forthcoming.
- “What Do Survey Data Tell Us about US Businesses?” (with A. Bhandari, S. Birinci, and K. See), *American Economic Review: Insights*, forthcoming.
- “Intangible Capital and Measured Productivity,” *Review of Economic Dynamics*, 37: S147–166, August 2020.
- “The Impact of Brexit on Foreign Investment and Production,” (with A. Waddle), *American Economic Journal: Macroeconomics*, 12(1): 76–103, January 2020.
- “An Aggregate Model for Policy Analysis with Demographic Change,” (with E. Prescott), *Journal of the Economics of Ageing*, 11(1): 52–61, May 2018.
- “On Financing Retirement with an Aging Population,” (with E. C. Prescott), *Quantitative Economics*, 8(1): 75–115, 2017.
- “Accounting for Business Cycles,” (with P. Brinca, V. V. Chari, and P. Kehoe), in *Handbook of Macroeconomics*, eds. J. Taylor and H. Uhlig, North-Holland, 2016.
- “China’s Foreign Investment,” Federal Reserve Bank of Minneapolis, *Economic Policy Papers*, 16(9): 1–6, July 2016.
- “Monetary Policy and Employment,” Federal Reserve Bank of Minneapolis, *Economic Policy Papers*, 15(7): 1–6, September 2015.
- “Quid Pro Quo: Technology Capital Transfers for Market Access in China,” (with T. J. Holmes and E. C. Prescott), *Review of Economic Studies*, 82(3): 1154–1193, July 2015.
- “Taxing Wealth,” Federal Reserve Bank of Minneapolis, *Economic Policy Papers*, 15(4): 1–7, March 2015.
- “Why Are Married Women Working So Much?” (with L. Jones and R. Manuelli), *Journal of Demographic Economics*, 81(1): 75–114, March 2015.
- “The Costs of Quid Pro Quo,” (with T. J. Holmes and E. C. Prescott), Federal Reserve Bank of Minneapolis, *Economic Policy Papers*, 15(1): 1–6, January 2015.
- “A Reassessment of Real Business Cycle Theory,” (with E.C. Prescott), *American Economic Review*, Papers and Proceedings, 104(5): 177–187, May 2014.

- “Transition to FDI Openness: Reconciling Theory and Evidence,” *Review of Economic Dynamics*, 15(4): 437–458, October 2012.
- “The Great Recession and Delayed Economic Recovery: A Labor Productivity Puzzle?” (with E. C. Prescott), in *Government Policies and the Delayed Economic Recovery*, eds. L. E. Ohanian, J. B. Taylor, and I. J. Wright, Hoover Institution Press, 2012.
- “Capital Taxation During the U.S. Great Depression,” *Quarterly Journal of Economics*, 127(3): 1515–1550, August 2012.
- “Unmeasured Investment and the Puzzling U.S. Boom in the 1990s” (with E. C. Prescott), *American Economic Journal: Macroeconomics*, 2(4): 88–123, October 2010.
- “Technology Capital and the U.S. Current Account” (with E. C. Prescott), *American Economic Review*, 100(4): 1493–1522, September 2010.
- “Measurement with Minimal Theory,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 33(1): 2–13, July 2010.
- “Comment on Michael Christian’s ‘Human Capital Accounting in the United States, 1994–2006’,” *Survey of Current Business*, 90(6): 37–41, June 2010.
- “Does Neoclassical Theory Account for the Effects of Big Fiscal Shocks? Evidence From World War II” (with L. Ohanian), *International Economic Review*, 51(2): 509–532, May 2010.
- “Openness, Technology Capital, and Development” (with E. C. Prescott), *Journal of Economic Theory*, 144(6): 2454–2476, November 2009.
- “New Keynesian Models: Not Yet Useful for Policy Analysis” (with V. V. Chari and P. Kehoe), *American Economic Journal: Macroeconomics*, 1(1): 242–266, January 2009.
- “Are Structural VARs with Long-Run Restrictions Useful in Developing Business Cycle Theory?” (with V. V. Chari and P. Kehoe), *Journal of Monetary Economics*, 55(8): 1337–1352, November 2008.
- “Real Business Cycles,” in *The New Palgrave Dictionary of Economics*, Second Edition, eds. S. N. Durlauf and L. E. Blume, Palgrave Macmillan, 2008.
- “Changes in the Distribution of Family Hours Worked Since 1950,” (with R. Rogerson), in P. Rupert, ed., *Frontiers of Family Economics*, Emerald Group Publishing, 2008.
- “Business Cycle Accounting,” (with V.V. Chari and P. Kehoe), *Econometrica*, 75(3): 781–836, May 2007.
- “Productivity and the Post-1990 U.S. Economy” (with E. C. Prescott), *Federal Reserve Bank of St. Louis Review*, 87(4): 537–549, July/August 2005.
- “Taxes, Regulations, and the Value of U.S. and U.K. Corporations,” (with E. C. Prescott), *Review of Economic Studies*, 72(3): 767–796, July 2005.

- “Sudden Stops and Output Drops,” (with V. V. Chari and P. Kehoe), *American Economic Review*, Papers and Proceedings, 95(2): 381–387, May 2005.
- “Comment on Mendoza and Tesar’s ‘Why Hasn’t Tax Competition Triggered a Race to the Bottom? Some Quantitative Lessons from the EU’,” *Journal of Monetary Economics*, 52(1): 205–211, January 2005.
- “Comment on Gali and Rabanal’s ‘Technology Shocks and Aggregate Fluctuations: How Well Does the RBC Model Fit Postwar U.S. Data’,” *NBER Macroeconomics Annual 2004*, MIT Press, 19: 289–308, 2005.
- “The 1929 Stock Market: Irving Fisher Was Right,” (with E. C. Prescott), *International Economic Review*, 45(4): 991–1009, November 2004.
- “Changes in Hours Worked, 1950–2000,” (with R. Rogerson), *Federal Reserve Bank of Minneapolis Quarterly Review*, 28(1): 14–33, July 2004.
- “Average Debt and Equity Returns: Puzzling?” (with E. C. Prescott), *American Economic Review*, Papers and Proceedings, 93(2): 392–397, May 2003.
- “Testing for Stock Market Overvaluation/Undervaluation,” (with E. C. Prescott), in *Asset Price Bubbles: The Implications for Monetary, Regulatory, and International Policies*, eds. W. Hunter, G. Kaufman, and M. Pomerleano, MIT Press, 2003.
- “The Optimum Quantity of Debt: Technical Appendix,” (with S. R. Aiyagari), *Annals of Economics and Finance*, 4(1): 193–217, 2003.
- “Can Sticky Price Models Generate Volatile and Persistent Real Exchange Rates?” (with V. V. Chari and P. Kehoe), *Review of Economic Studies*, 69(3): 533–563, July 2002.
- “Accounting for the Great Depression,” (with V. V. Chari and P. Kehoe), *American Economic Review*, Papers and Proceedings, 92(2): 22–27, May 2002. (Reprinted in: *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 2003.)
- “Is the Stock Market Overvalued?” (with E. C. Prescott), *Federal Reserve Bank of Minneapolis Quarterly Review*, 24(4): 20–40, Fall 2000.
- “The Declining U.S. Equity Premium” (with R. Jagannathan and A. Scherbina), *Federal Reserve Bank of Minneapolis Quarterly Review*, 24(4): 3–19, Fall 2000.
- “Sticky price models of the business cycle: Can the contract multiplier solve the persistence problem?” (with V. V. Chari and P. Kehoe), *Econometrica*, 68(5): 1151–1179, September 2000.
- “Explaining Cross-Country Income Differences,” (with J. Schmitz), in *Handbook of Macroeconomics*, eds. J. Taylor and M. Woodford, North-Holland, 1999.
- “Maintenance and Repair: Too Big to Ignore,” (with J. Schmitz), *Federal Reserve Bank of Minneapolis Quarterly Review*, 23(4): 2–13, Fall 1999.

- “Application of Weighted Residual Methods to Dynamic Economic Models,” in *Computational Methods for the Study of Dynamic Economies*, eds. R. Marimon and A. Scott, Oxford University Press, 1999.
- “The Optimum Quantity of Debt,” (with S. R. Aiyagari), *Journal of Monetary Economics*, 42: 447–469, December 1998.
- “A Defense of AK Growth Models,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 22(4): 13–27, Fall 1998.
- “Comment on Gordon, Leeper, and Zha’s, ‘Trends in Velocity and Policy Expectations’,” *Carnegie-Rochester Series on Public Policy*, 49: 305–316, 1998.
- “Changes in Hours Worked Since 1950,” (with R. Rogerson), *Federal Reserve Bank of Minneapolis Quarterly Review*, 22(1): 2–19, Winter 1998.
- “Comment on King and Goodfriend’s ‘The New Neoclassical Synthesis and the Role of Monetary Policy’,” *NBER Macroeconomics Annual 1997*, MIT Press, 12: 283–289, 1997.
- “An Equilibrium Model of the Business Cycle with Household Production and Fiscal Policy,” (with R. Rogerson and R. Wright), *International Economic Review*, 38(2): 267–290, May 1997.
- “Solving the Stochastic Growth Model with a Finite Element Method,” *Journal of Economic Dynamics and Control*, 20(1-3): 19-42, March 1996.
- “Mechanics of Forming and Estimating Dynamic Linear Economies,” (with E. Anderson, L. Hansen, and T. Sargent), in *Handbook of Computational Economics*, eds. H. Amman, D. Kendrick, and J. Rust, North-Holland, 1996.
- “The CAPM Debate,” (with R. Jagannathan), *Federal Reserve Bank of Minneapolis Quarterly Review*, 19(4): 2–17, Fall 1995.
- “On Adaptive Learning in Strategic Games,” (with R. Marimon), in *Learning and Rationality in Economics*, eds. A. Kirman and M. Salmon, Basil Blackwell, 1995.
- “A Progress Report on Business Cycle Models,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 18(4): 2–16, Fall 1994.
- “The Macroeconomic Effects of Distortionary Taxation,” *Journal of Monetary Economics*, 33: 573–601, 1994.
- “A Note on Computing Competitive Equilibria in Linear Models,” *Journal of Economic Dynamics and Control*, 18:149–160, 1994.
- “The Macroeconomics of War and Peace,” (with R. Braun), *NBER Macroeconomics Annual 1993*, MIT Press, 8: 197–247, 1993.
- “Government Policy and Aggregate Fluctuations,” *Revista de Analisis Economico*, 6: 21–36, 1991.

“Money as a Medium of Exchange in an Economy with Artificially Intelligent Agents,” (with R. Marimon and T. Sargent), *Journal of Economic Dynamics and Control*, 14: 329–373, 1990.

“Solving the Stochastic Growth Model by Linear-Quadratic Approximation,” *Journal of Business and Economic Statistics*, 8: 41–44, 1990.

Working papers:

“On Financing Retirement, Health, and Long-term Care in Japan,” (with K. Miyachi and A. Peralta-Alva) Staff Report 586. (R&R, *Review of Economic Dynamics*)

“Quantifying Efficient Tax Reform,” (with J. Boerma), mimeo, University of Minnesota.

“Taxation of Paid- and Self-Employment,” (with A. Bhandari and Y. Yao), mimeo, University of Minnesota.

“Predicting the Effects of Federal Reserve Policy in a Sticky Price Model: An Analytical Approach,” Federal Reserve Bank of Minneapolis Working Paper 598.

“The Poverty of Nations: A Quantitative Exploration,” (with V. V. Chari and P. Kehoe), Federal Reserve Bank of Minneapolis Staff Report 204 and NBER Working Paper 5414.