

Curriculum Vitae
April 2013

John C. Williams

President and Chief Executive Officer
Federal Reserve Bank of San Francisco
101 Market Street
San Francisco, CA 94105

Phone: (415) 974-2000

Education

Ph.D. Economics, Stanford University, 1994
MSc. with Distinction, Economics, London School of Economics, 1989
A.B. with High Distinction, Economics, University of California, Berkeley, 1984

Positions Held

Federal Reserve Bank of San Francisco
President and Chief Executive Officer, 2011 - present
Executive Vice President and Director of Research, 2009 - 2011
Senior Vice President and Advisor, 2004 – 2008
Senior Research Advisor, 2003 – 2004
Research Advisor, 2002 – 2003
Board of Governors of the Federal Reserve System
Senior Economist, 1998 – 2002
Economist, 1994 – 1997
Stanford University Graduate School of Business (on leave from FRBSF)
Lecturer, 2008
Council of Economic Advisers (on leave from Board of Governors)
Senior Economist, 1999-2000

Professional Activities

Managing Editor, *International Journal of Central Banking*, 2011 – present.
Research Associate, Centre for Applied Macroeconomic Analysis, 2008 – present
Associate Editor, *American Economic Review*, 2005 – 2008.
Associate Editor, *Journal of Economic Dynamics and Control*, 2001 – 2005.

Research Interests

Monetary policy under uncertainty and imperfect information; learning; research and development, innovation, and productivity, business cycles.

Fellowships and Awards

Bradley Foundation Fellowship
Phi Beta Kappa

Published Articles

“Monetary Policy Mistakes and the Evolution of Inflation Expectations,” (with Athanasios Orphanides), in Michael D. Bordo and Athanasios Orphanides (ed.), *The Great Inflation*, Chicago: University of Chicago Press, forthcoming.

“Have We Underestimated the Probability of Hitting the Zero Lower Bound?” (with Hess Chung, Jean-Philippe Laforte, and David Reifschneider), *Journal of Money, Credit and Banking*, 44, 2012, 47-82.

“Two Cheers for Bagehot,” in Subir Gokarn (ed.), *Challenges to Central Banking in the Context of Financial Crisis*, New Delhi, India: Academic Foundation, 2011, 333-347.

“Simple and Robust Rules for Monetary Policy,” (with John B. Taylor), in Benjamin Friedman and Michael Woodford (ed.), *Handbook of Monetary Economics*, Volume 3B, North-Holland, 2011, 829-860.

“Welfare-Maximizing Monetary Policy under Parameter Uncertainty,” (with Rochelle M. Edge and Thomas Laubach), *Journal of Applied Econometrics*, 25(1), January/February 2010, 129-143.

“Heeding Daedalus: Optimal Inflation and the Zero Lower Bound,” *Brookings Paper on Economic Activity*, Fall 2009, 2010, 1-37.

“Imperfect Knowledge and the Pitfalls of Optimal Control Policy,” (with Athanasios Orphanides), in Carl Walsh and Klaus Schmidt-Hebbel (ed.), *Central Banking, Analysis and Economic Policies: Monetary Policy Under Uncertainty and Learning*, Central Bank of Chile, 2009, 115-144.

“Forecasting Recessions: The Puzzle of the Enduring Power of the Yield Curve,” (with Glenn D. Rudebusch), *Journal of Business and Economic Statistics*, 27(4), October 2009, 492-503.

“A Black Swan in the Money Market,” (with John B. Taylor), *American Economic Journal: Macroeconomics*, 1(1), January 2009, 58-83.

“Learning, Expectations Formation, and the Pitfalls of Optimal Control Monetary Policy,” (with Athanasios Orphanides), *Journal of Monetary Economics*, 55, October 2008, S80-S96.

“Revealing the Secrets of the Temple: The Value of Publishing Central Bank Interest Rate Projections,” (with Glenn D. Rudebusch), in John Y. Campbell (ed.) *Asset Prices and Monetary Policy*, University of Chicago Press, 2008, 247-284.

“Learning and Shifts in Long-Run Productivity Growth,” (with Rochelle M. Edge and Thomas Laubach), *Journal of Monetary Economics*, November 2007, 2421–2438.

“Robust Monetary Policy with Imperfect Knowledge,” (with Athanasios Orphanides), *Journal of Monetary Economics*, August 2007, 1406-1435.

“Inflation Targeting under Imperfect Knowledge,” (with Athanasios Orphanides), in Frederic Mishkin and Klaus Schmidt-Hebbel (ed.) *Monetary Policy under Inflation Targeting*, Central Bank of Chile, 2007. Reprinted in *FRBSF Economic Review*, 2007.

“Monetary Policy in a Low Inflation Economy with Learning,” in *Monetary Policy in an Environment of Low Inflation; Proceedings of the Bank of Korea International Conference 2006*, Seoul, Korea: The Bank of Korea, 2006, 199-228. Reprinted in *FRBSF Economic Review*, 2010.

“Monetary Policy with Imperfect Knowledge,” (with Athanasios Orphanides), *Journal of the European Economic Association*, 4 (2-3), April/May 2006, April-May 2006, 366–375.

“Monetary Policy under Uncertainty in Micro-founded Macroeconomic Models,” (with Andrew T. Levin, Alexei Onatski, and Noah Williams), *NBER Macroeconomics Annual 2005*, 20, Cambridge, Mass.: MIT Press, 2006, 229-287.

“Robust Estimation and Monetary Policy with Unobserved Structural Change,” in Jon Faust, Athanasios Orphanides, and David Reifschneider (ed.) *Models and Monetary Policy: Research in the Tradition of Dale Henderson, Richard Porter, and Peter Tinsley*, Washington, DC: Board of Governors of the Federal Reserve System, 2005. Reprinted in *FRBSF Economic Review*, 2005.

“The Decline of Activist Stabilization Policy: Natural Rate Misperceptions, Learning, and Expectations,” (with Athanasios Orphanides), *Journal of Economic Dynamics and Control*, November 2005, 1927-1950.

“Using a Long-Term Interest Rate as the Monetary Policy Instrument,” (with Bruce McGough and Glenn D. Rudebusch), *Journal of Monetary Economics*, 52, July 2005, 855-879.

“Inflation Scares and Monetary Policy,” (with Athanasios Orphanides), *Review of Economic Dynamics*, 8, April 2005, 498-527.

“Investment, Capacity, and Uncertainty: A Putty-Clay Approach,” (with Simon Gilchrist), *Review of Economic Dynamics*, 8, January 2005, 1-27.

“Imperfect Knowledge, Inflation Expectations, and Monetary Policy,” (with Athanasios Orphanides), in Ben S. Bernanke and Michael Woodford (ed.) *The Inflation-Targeting Debate*, Chicago: University of Chicago Press, 2004, 201-234.

“Measuring the Natural Rate of Interest,” (with Thomas Laubach), *Review of Economics and Statistics*, 85(4), November 2003, 1063–1070.

“Robust Monetary Policy with Competing Reference Models,” (with Andrew T. Levin), *Journal of Monetary Economics*, 50, July 2003, 945–975.

“The Performance of Forecast-Based Monetary Policy Rules under Model Uncertainty,” (with Andrew T. Levin and Volker Wieland), *American Economic Review*, 93(3), June 2003, 622-645.

“Simple Rules for Monetary Policy,” *Federal Reserve Bank of San Francisco Economic Review*, 2003, 1-12.

“Robust Monetary Policy Rules with Unknown Natural Rates,” (with Athanasios Orphanides), *Brookings Papers on Economic Activity*, Vol. 2, 2002, 63-145.

“Three Lessons for Monetary Policy in a Low Inflation Era,” (with David Reifschneider), *Journal of Money, Credit and Banking*, 32(4), November 2000, 936-966.

“Putty-Clay and Investment: A Business Cycle Analysis,” (with Simon Gilchrist), *Journal of Political Economy*, 108(5), October 2000, 928-960.

“Too Much of a Good Thing? The Economics of Investment in R&D,” (with Charles Jones), *Journal of Economic Growth*, 5, March 2000, 65-85.

“Robustness of Simple Monetary Policy Rules under Model Uncertainty,” (with Andrew Levin and Volker Wieland), in John Taylor (ed.) *Monetary Policy Rules*, University of Chicago Press, 1999.

“Aggregate Disturbances, Monetary Policy, and the Macroeconomy: The FRB/US Perspective,” (with David Reifschneider and Robert Tetlow), *Federal Reserve Bulletin*, January 1999, 1-19.

“Measuring the Social Rate of Return to R&D,” (with Charles Jones), *Quarterly Journal of Economics*, November 1998, 1119-1135.

“The Evolution of Macro Models at the Federal Reserve Board,” (with Flint Brayton, Andrew Levin, and Ralph Tryon), *Carnegie-Rochester Conference Series on Public Policy*, 47, December 1997, 43-81.

“The Role of Expectations in the FRB/US Macroeconomic Model,” (with Flint Brayton, Eileen Mauskopf, David Reifschneider, and Peter Tinsley), *Federal Reserve Bulletin*, April 1997, 227-245.

“Expectations, Learning and the Costs of Disinflation: Experiments using the FRB/US Model,” (with A. Bomfim, R. Tetlow, and P. von zur Muehlen), *Monetary Policy and the Inflation Process*, Basel, Switzerland: Bank of International Settlements, 1997.

Published Discussions and Comments

“Monetary Policy and Housing Booms,” *International Journal of Central Banking*, 7(1), March 2011, 345-354.

“Wrap-up Discussion,” in: Renee Fry, Callum Jones, and Christopher Kent (ed.) *Inflation in an Era of Relative Price Shocks*, Sydney, Australia: Reserve Bank of Australia, May 2010, 342-346.

“The Zero Lower Bound: Lessons from the Past Decade,” *NBER International Seminar on Macroeconomics*, 6, 2010, 367-375.

“Discussion of ‘Free Flows, Limited Diversification: Openness and the Fall and Rise of Stock Market Correlations, 1890-2001’ by Quinn and Voth,” *NBER International Seminar on Macroeconomics*, 6, 2010, 48-52.

“Discussion of ‘A Snapshot on Inflation Targeting in its Adolescence’ by Kenneth Kuttner,” in Christopher Kent and Simon Guttman (ed.) *The Future of Inflation Targeting*, Sydney, Australia: Reserve Bank of Australia, November 2004, 43-46.

“Discussion of ‘Disagreement about Inflation Expectations’ by N. Gregory Mankiw, Ricardo Reis, and Justin Wolfers,” in Mark Gertler and Kenneth Rogoff (ed.) *NBER Macroeconomics Annual 2003*, 18, Cambridge, Mass.: MIT Press, 2004, 257-268.

Other Publications

“Cash Is Dead! Long Live Cash!,” *Federal Reserve Bank of San Francisco 2012 Annual Report*, April 2013, 7-15.

“The Economy and Fed Policy: Follow the Demand,” *Federal Reserve Bank of San Francisco Economic Letter*, 2013-05, February 25, 2013.

“Monetary Policy in Uncertain Times,” *Federal Reserve Bank of San Francisco Economic Letter*, 2013-02, January 21, 2013.

“The Federal Reserve’s Unconventional Policies,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-34, November 13, 2012.

“The Economic Outlook and Federal Reserve Policy,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-30, October 1, 2012.

“The Outlook and Monetary Policy Challenges,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-22, July 23, 2012.

“Monetary Policy, Money, and Inflation,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-21, July 9, 2012.

“Opening the Temple,” *Federal Reserve Bank of San Francisco 2011 Annual Report*, April 2012, 7-14.

“The Slow Recovery: It's Not Just Housing,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-11, April 9, 2012

“The Federal Reserve and the Economic Recovery,” *Federal Reserve Bank of San Francisco Economic Letter*, 2012-02, January 17, 2012.

“Unconventional Monetary Policy: Lessons from the Past Three Years,” *Federal Reserve Bank of San Francisco Economic Letter*, 2011-31, October 3, 2011.

“Economics Instruction and the Brave New World of Monetary Policy,” *Federal Reserve Bank of San Francisco Economic Letter*, 2011-17, June 6, 2011.

“Maintaining Price Stability in a Global Economy,” *Federal Reserve Bank of San Francisco Economic Letter*, 2011-14, May 9, 2011.

“What Is the New Normal Unemployment Rate?” (with Justin Weidner), *Federal Reserve Bank of San Francisco Economic Letter*, 2011-5, February 14, 2011.

“Estimating the Macroeconomic Effects of the Fed's Asset Purchases,” (with Hess Chung, Jean-Philippe Laforte, and David Reifschneider), *Federal Reserve Bank of San Francisco Economic Letter*, 2011-3, January 31, 2011.

“The Shape of Things to Come,” (with Justin Weidner), *Federal Reserve Bank of San Francisco Economic Letter*, 2010-15, May 17, 2010.

“How Big Is the Output Gap?” (with Justin Weidner), *Federal Reserve Bank of San Francisco Economic Letter*, 2009-19, June 12, 2009.

“The Risk of Deflation,” *Federal Reserve Bank of San Francisco Economic Letter*, 2009-12, March 27, 2009.

“Inflation Persistence in an Era of Well-Anchored Inflation Expectations,” *Federal Reserve Bank of San Francisco Economic Letter*, Number 2006-27, October 13, 2006.

“The Natural Rate of Interest,” *Federal Reserve Bank of San Francisco Economic Letter*, Number 2003-32, October 31, 2003.

Unpublished Working Papers

“Measuring the Effect of the Zero Lower Bound on Medium- and Longer-Term Interest Rates,” (with Eric T. Swanson), Federal Reserve Bank of San Francisco Working Paper 2012-02, February 2012.

“Learning and the Role of Macro Factors in the Term Structure,” (with Thomas Laubach and Robert Tetlow), mimeo, October 2007.

“The Responses of Wages and Prices to Technology Shocks.” (with Rochelle M. Edge and Thomas Laubach), Federal Reserve Bank of San Francisco Working Paper 03-21, December 2003.

“Parameter Uncertainty and the Central Bank’s Objective Function,” (with Andrew T. Levin), manuscript, May 2003.

“The Optimal Monetary Policy Response to Shifts in Growth,” (with Rochelle Edge and Thomas Laubach), manuscript, May 2003.

“Transition Dynamics in Vintage Capital Models: Explaining the Postwar Catch-Up of Germany and Japan,” (with Simon Gilchrist) Finance and Economics Discussion Series 2001-07, February 2001.

“What’s Happened to the Phillips Curve?,” (with Flint Brayton and John Roberts), Finance and Economics Discussion Series 1999-49, September 1999.

“The Limits to ‘Growing an Economy’,” Finance and Economics Discussion Series 95-30, 1995.