JEREMY C. STEIN

OFFICE

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BORN: October 17, 1960, Chicago IL.

EDUCATION

Massachusetts Institute of Technology, Ph.D., 1986, Economics.

Princeton University, A.B., 1983, Economics, summa cum laude.

EMPLOYMENT

Harvard University: Moise Y. Safra Professor of Economics, July 2005-present; Professor of Economics, July 2000-June 2005.

U.S. Treasury Department: Senior Advisor to the Secretary; and concurrently, staff of National Economic Council, February-July 2009.

M.I.T. Sloan School of Management: J.C. Penney Professor of Management, July 1994-June 2000; Professor of Finance, July 1993-June 1994; Associate Professor of Finance, July 1990-June 1993.

Harvard Business School: Marvin Bower Fellow, September 1999-June 2000.

Council of Economic Advisers: Senior Staff Economist, September 1989-June 1990.

Harvard Business School: Assistant Professor of Finance, July 1987-June 1990; Research Fellow, July 1986-June 1987.

Goldman Sachs and Co.: Intern, July 1986-June 1987.

Board of Governors of the Federal Reserve System: Student Intern, Summer 1985.

City Federal Savings and Loan, Elizabeth, NJ: Hedging Manager, Summer 1983; Research Analyst, Summer 1980, January-September 1981, Summer 1982.

OTHER AFFILIATIONS

American Finance Association: President, 2008; President-Elect, 2007; Vice-President, 2006; Board of Directors, 2000-2003, 2009-2011.

Financial Advisory Roundtable, Federal Reserve Bank of New York, 2006-present.

National Bureau of Economic Research: Research Associate, 1993-present; Faculty Research Fellow 1991-1993.

Squam Lake Group, 2008-present.

Co-Editor, Quarterly Journal of Economics, 2011-present.

Co-Editor, <u>Journal of Economic Perspectives</u>, 2007-2009.

Associate Editor, Journal of Financial Economics, 2000-2011.

Associate Editor, Journal of Finance, 1993-2000; 2003-2006.

Associate Editor, Quarterly Journal of Economics, 1992-2006, 2010-2011.

Editorial Board, American Economic Review, 1993-1996.

Advisory Editor, Economics Letters, 1993-2002.

Visiting Scholar, Federal Reserve Board, July-August 1990.

Staff Economist, Presidential Task Force on Market Mechanisms (Brady Commission), November 1987-January 1988.

HONORS, GRANTS AND FELLOWSHIPS

Paolo Baffi lecture, Bank of Italy, 2011.

Fellow, American Academy of Arts and Sciences, 2008.

Fama-DFA Prize, for best article on Capital Markets and Asset Pricing in <u>Journal of Financial Economics</u>, 2002: "Breadth of Ownership and Stock Returns" (with Joseph Chen and Harrison Hong).

Brattle Prize (distinguished paper), for article on Corporate Finance in <u>Journal of Finance</u>, 2002: "Banks as Liquidity Providers: An Explanation for the Coexistence of Lending and Deposit-Taking" (with Anil Kashyap and Raghuram Rajan).

Fama-DFA Prize (second place), for article on Capital Markets and Asset Pricing in <u>Journal of Financial Economics</u>, 2001: "Forecasting Crashes: Trading Volume, Past Returns and Conditional Skewness in Stock Prices" (with Joseph Chen and Harrison Hong).

Sloan School Alumni Award for Excellence in Management Education ("Teacher of the Year"), 1998.

Sloan School Excellence in Teaching Award, 1993, 1994, 1995, 1996.

Jensen Prize, for best article on Corporate Finance and Organizations in <u>Journal of Financial Economics</u>, 1998: "Risk Management, Capital Budgeting and Capital Structure Policy for Financial Institutions: An Integrated Approach" (with Kenneth Froot).

Merton Miller Prize, for best article in <u>Journal of Business</u>, 1996: "Rational Capital Budgeting in an Irrational World".

National Science Foundation grants: 1992-94 (with Anil Kashyap); 1995-98 (with Anil Kashyap); 1999-2002; and 2002-2007 (with Harrison Hong and Jeffrey Kubik).

Batterymarch Fellowship, 1991-92.

National Science Foundation graduate fellowship, 1983-86.

Class of 1916 Cup, Princeton University, 1983 (Top scholar-athlete in graduating class).

Halbert White Prize, Princeton University, 1983 (Top student in economics department).

Phi Beta Kappa, 1983.

BOOK

The Squam Lake Report: Fixing the Financial System, (with Kenneth French and the Squam Lake Group), Princeton University Press, 2010.

ARTICLES

"Informational Externalities and Welfare-Reducing Speculation," <u>Journal of Political Economy</u>, 95, December 1987, pp. 1123-1145.

"Takeover Threats and Managerial Myopia," <u>Journal of Political Economy</u>, 96, February 1988, pp. 61-80.

"The Task Force Report: The Reasoning Behind the Recommendations," (with Bruce Greenwald), <u>Journal of Economic Perspectives</u>, 2, Summer 1988, pp. 3-23.

"Employee Opportunism and Redundancy in Firms," (with Jonathan Feinstein), <u>Journal of Economic Behavior and Organization</u>, 10, December 1988, pp. 401-414.

"Cheap Talk and the Fed: A Theory of Imprecise Policy Announcements," <u>American Economic</u> Review, 79, March 1989, pp. 32-42.

"Overreactions in the Options Market," <u>Journal of Finance</u>, 44, September 1989, pp. 1011-1023; also reprinted in <u>Advances in Behavioral Finance</u>, edited by Richard Thaler, Russell Sage Foundation, 1993, pp. 341-356; and in <u>Options Markets</u>, edited by G.M. Constantinides and A.G. Malliaris, Edward Elgar Publishing, 2001.

"Efficient Capital Markets, Inefficient Firms: A Model of Myopic Corporate Behavior," Quarterly Journal of Economics, 104, November 1989, pp. 655-669.

- "LDC Debt: Forgiveness, Indexation, and Investment Incentives," (with Kenneth Froot and David Scharfstein), <u>Journal of Finance</u>, 44, December 1989, pp. 1335-1350.
- "Herd Behavior and Investment," (with David Scharfstein), <u>American Economic Review</u>, 80, June 1990, pp. 465-479.
- "How Risky is the Debt in Highly Leveraged Transactions?," (with Steven Kaplan), <u>Journal of Financial Economics</u>, 27, September 1990, pp. 215-245.
- "Transactional Risk, Market Crashes, and the Role of Circuit Breakers," (with Bruce Greenwald), <u>Journal of Business</u>, 64, October 1991, pp. 443-462.
- "Exchange Rates and Foreign Direct Investment: An Imperfect Capital Markets Approach," (with Kenneth Froot), Quarterly Journal of Economics, 106, November 1991, pp. 1191-1217.
- "Stock Price Distributions with Stochastic Volatility: An Analytic Approach," (with Elias Stein), Review of Financial Studies, 4, December 1991, pp. 727-752; also reprinted in Volatility: New Estimation Techniques for Pricing Derivatives, edited by Robert Jarrow, Risk Publications, 1998, pp. 325-339.
- "Shareholder Trading Practices and Corporate Investment Horizons," (with Kenneth Froot and André Perold), Journal of Applied Corporate Finance, 5, Summer 1992, pp. 42-58.
- "Convertible Bonds as 'Back Door' Equity Financing," <u>Journal of Financial Economics</u>, 32, August 1992, pp. 3-21.
- "Herd on the Street: Informational Inefficiencies in a Market with Short-Term Speculation," (with Kenneth Froot and David Scharfstein), <u>Journal of Finance</u>, 47, September 1992, pp. 1461-1484.
- "Monetary Policy and Credit Conditions: Evidence from the Composition of External Finance," (with Anil Kashyap and David Wilcox), <u>American Economic Review</u>, 83, March 1993, pp. 78-98.
- "The Evolution of Buyout Pricing and Financial Structure in the 1980's," (with Steven Kaplan), Quarterly Journal of Economics, 108, May 1993, pp. 313-357; also reprinted in slightly abridged form in Journal of Applied Corporate Finance, 6, Spring 1993, pp. 72-88.
- "Risk Management: Coordinating Corporate Investment and Financing Policies," (with Kenneth Froot and David Scharfstein), <u>Journal of Finance</u>, 48, December 1993, pp. 1629-1658; also reprinted in <u>The Theory of Corporate Finance</u>, edited by Michael J. Brennan, Edward Elgar Publishing, 1996; and in <u>Corporate Hedging in Theory and Practice</u>, edited by Christopher Culp and Merton Miller, Risk Publications, 1999.
- "Monetary Policy and Bank Lending," (with Anil Kashyap), in <u>Monetary Policy</u>, edited by N. Gregory Mankiw. Chicago: University of Chicago Press, 1994, pp. 221-256.
- "Credit Conditions and the Cyclical Behavior of Inventories," (with Anil Kashyap and Owen Lamont), <u>Quarterly Journal of Economics</u>, 109, August 1994, pp. 565-592.

- "Internal versus External Capital Markets," (with Robert Gertner and David Scharfstein), Quarterly Journal of Economics, 109, November 1994, pp. 1211-1230.
- "A Framework for Risk Management," (with Kenneth Froot and David Scharfstein), <u>Harvard Business Review</u>, 72, November-December 1994, pp. 91-102; also reprinted in <u>Journal of Applied Corporate Finance</u>, 7, Fall 1994, pp. 22-32; and in <u>Corporate Risk: Strategies and Management</u>, edited by Gregory W. Brown and Donald H. Chew, Risk Publications, 1999, pp. 53-65.
- "The Impact of Monetary Policy on Bank Balance Sheets," (with Anil Kashyap), <u>Carnegie-Rochester Conference Series on Public Policy</u>, 42, 1995, pp. 151-195.
- "Prices and Trading Volume in the Housing Market: A Model with Downpayment Effects," Quarterly Journal of Economics, 110, May 1995, pp. 379-406.
- "Monetary Policy and Credit Conditions: Evidence from the Composition of External Finance: Reply," (with Anil Kashyap and David Wilcox), <u>American Economic Review</u>, 86, March 1996, pp. 310-314.
- "Rational Capital Budgeting in an Irrational World," <u>Journal of Business</u>, 69, October 1996, pp. 429-455; also reprinted in <u>Behavioral Finance</u>, edited by Hersh Shefrin, Edward Elgar Publishing, 2000; in <u>Recent Developments in Corporate Finance</u>, edited by Jay Ritter, Edward Elgar Publishing, 2004; and in <u>Advances in Behavioral Finance Volume II</u>, edited by Richard Thaler, Russell Sage Foundation and Princeton University Press, 2004.
- "Internal Capital Markets and the Competition for Corporate Resources," <u>Journal of Finance</u>, 52, March 1997, pp. 111-133; also reprinted in <u>Recent Developments in Corporate Finance</u>, edited by Jay Ritter, Edward Elgar Publishing, 2004.
- "Waves of Creative Destruction: Firm-Specific Learning-by-Doing and the Dynamics of Innovation," <u>Review of Economic Studies</u>, 64, April 1997, pp. 265-288.
- "The Role of Banks in Monetary Policy: A Survey with Implications for the European Monetary Union," (with Anil Kashyap) Federal Reserve Bank of Chicago Economic Perspectives, 21, September/October 1997, pp. 2-19; also reprinted in International Securities, edited by G. Philippatos and G. Koutmos, Edward Elgar Publishing, 2000.
- "Risk Management, Capital Budgeting and Capital Structure Policy for Financial Institutions: An Integrated Approach," (with Kenneth Froot), <u>Journal of Financial Economics</u>, 47, January 1998, pp. 55-82.
- "A New Approach to Capital Budgeting for Financial Institutions," (with Kenneth Froot), Journal of Applied Corporate Finance, 11, Summer 1998, pp. 59-69.
- "An Adverse Selection Model of Bank Asset and Liability Management with Implications for the Transmission of Monetary Policy," <u>RAND Journal of Economics</u>, 29, Autumn 1998, pp. 466-486.

- "Leverage and House-Price Dynamics in U.S. Cities," (with Owen Lamont), <u>RAND Journal of</u> Economics, 30, Autumn 1999, pp. 498-514.
- "A Unified Theory of Underreaction, Momentum Trading and Overreaction in Asset Markets," (with Harrison Hong), <u>Journal of Finance</u>, 54, December 1999, pp. 2143-2184; also reprinted in <u>Behavioral Finance</u>, edited by Hersh Shefrin, Edward Elgar Publishing, 2000 and in <u>Advances in Behavioral Finance Volume II</u>, edited by Richard Thaler, Russell Sage Foundation and Princeton University Press, 2004.
- "Bad News Travels Slowly: Size, Analyst Coverage and the Profitability of Momentum Strategies," (with Harrison Hong and Terence Lim), <u>Journal of Finance</u>, 55, February 2000, pp. 265-295.
- "What Do A Million Observations on Banks Say About the Transmission of Monetary Policy?," (with Anil Kashyap), <u>American Economic Review</u>, 90, June 2000, pp. 407-428.
- "Herd Behavior and Investment: Reply," (with David Scharfstein), <u>American Economic Review</u>, 90, June 2000, pp. 705-706.
- "The Dark Side of Internal Capital Markets: Divisional Rent-Seeking and Inefficient Investment," (with David Scharfstein), <u>Journal of Finance</u>, 55, December 2000, pp. 2537-2564.
- "A Comparables Approach to Measuring Cashflow-at-Risk for Non-Financial Firms," (with Stephen Usher, Daniel LaGattuta and Jeff Youngen), <u>Journal of Applied Corporate Finance</u>, 13, Winter 2001, pp. 100-109.
- "Forecasting Crashes: Trading Volume, Past Returns and Conditional Skewness in Stock Prices," (with Joseph Chen and Harrison Hong), <u>Journal of Financial Economics</u>, 61, September 2001, pp. 345-381.
- "Banks as Liquidity Providers: An Explanation for the Coexistence of Lending and Deposit-Taking," (with Anil Kashyap and Raghuram Rajan), <u>Journal of Finance</u>, 57, February 2002, pp. 33-73.
- "Information Production and Capital Allocation: Decentralized vs. Hierarchical Firms," <u>Journal of Finance</u>, 57, October 2002, pp. 1891-1921.
- "Breadth of Ownership and Stock Returns," (with Joseph Chen and Harrison Hong), <u>Journal of Financial Economics</u>, 66, November-December 2002, pp. 171-205.
- "Differences of Opinion, Short-Sales Constraints and Market Crashes," (with Harrison Hong), Review of Financial Studies, 16, Summer 2003, pp. 487-525.
- "When Does the Market Matter? Stock Prices and the Investment of Equity-Dependent Firms," (with Malcolm Baker and Jeffrey Wurgler), <u>Quarterly Journal of Economics</u>, 118, August 2003, pp. 969-1005.
- "Agency, Information and Corporate Investment," in <u>Handbook of the Economics of Finance</u>, edited by George Constantinides, Milt Harris and René Stulz, Elsevier, 2003, pp. 111-165.

- "Cyclical Implications of the Basel-II Capital Standards," (with Anil Kashyap), <u>Federal Reserve Bank of Chicago Economic Perspectives</u>, 28, Q1 2004, pp 18-31.
- "Social Interaction and Stock-Market Participation," (with Harrison Hong and Jeffrey Kubik), <u>Journal of Finance</u>, 59, February 2004, pp. 137-163.
- "Aggregate Short Interest and Market Valuations," (with Owen Lamont), <u>American Economic Review Papers and Proceedings</u>, 94, May 2004, pp. 29-32.
- "Market Liquidity as a Sentiment Indicator," (with Malcolm Baker), <u>Journal of Financial</u> Markets, 7, June 2004, pp. 271-299.
- "Why Are Most Funds Open-End? Competition and the Limits of Arbitrage," <u>Quarterly Journal</u> of Economics, 120, February 2005, pp. 247-272.
- "Does Function Follow Organizational Form? Evidence From the Lending Practices of Large and Small Banks," (with Allen Berger, Nathan Miller, Mitchell Petersen and Raghuram Rajan), <u>Journal of Financial Economics</u>, 76, May 2005, pp. 237-269.
- "Thy Neighbor's Portfolio: Word-of-Mouth Effects in the Holdings and Trades of Money Managers," (with Harrison Hong and Jeffrey Kubik), <u>Journal of Finance</u>, 60, December 2005, pp. 2801-2824.
- "Investor Sentiment and Corporate Finance: Micro and Macro," (with Owen Lamont), <u>American</u> Economic Review Papers and Proceedings, 96, May 2006, pp. 147-151.
- "Corporate Financing Decisions When Investors Take the Path of Least Resistance," (with Malcolm Baker and Joshua Coval), <u>Journal of Financial Economics</u>, 84, May 2007, pp. 266-298.
- "Disagreement and the Stock Market," (with Harrison Hong), <u>Journal of Economic Perspectives</u>, 21, Spring 2007, pp. 109-128.
- "Simple Forecasts and Paradigm Shifts," (with Harrison Hong and Jialin Yu), <u>Journal of Finance</u>, 62, June 2007, pp. 1207-1242.
- "Growth vs. Margins: Destabilizing Consequences of Giving the Stock Market What It Wants," (with Philippe Aghion), <u>Journal of Finance</u>, 63, June 2008, pp. 1025-1058.
- "Academic Freedom, Private-Sector Focus, and the Process of Innovation," (with Philippe Aghion and Mathias Dewatripont), <u>RAND Journal of Economics</u>, 39, Autumn 2008, pp. 617-635.
- "The Only Game in Town: Stock-Price Consequences of Local Bias," (with Harrison Hong and Jeffrey Kubik), <u>Journal of Financial Economics</u>, 90, October 2008, pp. 20-37.
- "Conversations Among Competitors," <u>American Economic Review</u>, 98, December 2008, pp. 2150-2162.

- "Rethinking Capital Regulation," (with Anil Kashyap and Raghuram Rajan), in <u>Maintaining Stability in a Changing Financial System</u>, Federal Reserve Bank of Kansas City, 2008, pp. 431-471.
- "Presidential Address: Sophisticated Investors and Market Efficiency," <u>Journal of Finance</u>, 64, August 2009, pp. 1517-1548.
- "A Gap-Filling Theory of Corporate Debt Maturity Choice," (with Robin Greenwood and Samuel Hanson), Journal of Finance, 65, June 2010, pp. 993-1028.
- "Securitization, Shadow Banking, and Financial Fragility," Daedalus, 139, Fall 2010, pp. 41-51.
- "A Macroprudential Approach to Financial Regulation," (with Samuel Hanson and Anil Kashyap), <u>Journal of Economic Perspectives</u>, 25, Winter 2011, pp. 3-28.
- "Monetary Policy as Financial-Stability Regulation," <u>Quarterly Journal of Economics</u>, forthcoming.
- "The Optimal Conduct of Monetary Policy with Interest on Reserves," (with Anil Kashyap), American Economic Journal: Macroeconomics, forthcoming.

WORKING PAPERS

- "A Comparative-Advantage Approach to Government Debt Maturity," (with Robin Greenwood and Samuel Hanson), December 2010.
- "An Analysis of the Impact of 'Substantially Heightened' Capital Requirements on Large Financial Institutions," (with Anil Kashyap and Samuel Hanson), May 2010. (*This paper was commissioned by The Clearing House Association*.)
- "Do Hedge Funds Profit From Mutual-Fund Distress?," (with Joseph Chen, Samuel Hanson and Harrison Hong), April 2008.

NOTES, CASES, AND COMMENTS

- "Mortgage Hedging," (with Bruce Petersen), <u>Goldman Sachs Financial Futures and Options</u>, February 1987.
- "A Note on the Pricing of Mortgage-Backed Securities," <u>Harvard Business School Case Services</u> #9-287-060, revised March 1989.
- "Colt Industries," <u>Harvard Business School Case Services</u> #9-289-012 (case) and #5-289-062 (teaching note), revised January 1989.
- "Short-Term Trading, Stock Price Quality, and Corporate Investment Horizons," in <u>Institutional</u> Investing, edited by Arnold Sametz, Business One Irwin, 1991, pp. 167-69.
- "Cheap Talk About Monetary Policy," New Palgrave Dictionary of Money and Finance, 1992.
- "Orderly Markets," New Palgrave Dictionary of Money and Finance, 1992.

"Circuit Breakers," (with Bruce Greenwald) New Palgrave Dictionary of Money and Finance, 1992.

"Comment on Philippe Aghion, Oliver Hart and John Moore: 'The Economics of Bankruptcy Reform'," in <u>The Transition in Eastern Europe</u>, Vol. 2, edited by Olivier Blanchard, Kenneth Froot and Jeffrey Sachs, University of Chicago Press, 1994, pp. 240-243.

"The Role of Banks in the Transmission of Monetary Policy," (with Anil Kashyap) <u>NBER</u> <u>Reporter</u>, Fall 1995, pp. 6-9.

"USX: Targeted Stock Restructuring," (case and teaching package) <u>CaseNet</u>, 1996.

"Unravelling the Workings of Monetary Policy," (with Anil Kashyap) <u>Financial Times Mastering Finance Series</u>, part 12, July 28, 1997, pp. 2-4.

"Comment on Kenneth Froot and Paul O'Connell: 'The Pricing of U.S. Catastrophe Reinsurance'," in <u>The Limited Financing of Catastrophe Risk</u>, edited by Kenneth Froot, University of Chicago Press, 1999, pp. 227-231.

"Cashflow-at-Risk and Financial Policy for Electricity Companies in the New World Order," (with Daniel LaGattuta, Michael Tennican, Stephen Usher and Jeff Youngen) <u>Electricity Journal</u>, December 2000, pp. 15-20.

"Comment on Randall Kroszner: 'Obstacles to Optimal Policy: The Interplay of Politics and Economics in Shaping Bank Supervision and Regulation Reforms'," in <u>Prudential Supervision:</u> What Works and What Doesn't, edited by Frederic Mishkin, University of Chicago Press, 2001, pp. 267-270.

"Comment on Skander Van den Heuvel: 'Does Bank Capital Matter for Monetary Transmission?'," in <u>Federal Reserve Bank of New York Economic Policy Review</u> 8, May 2002, pp. 267-270.

"Comment on Randall Kroszner: 'Currency Competition in the Digital Age'," in <u>Evolution and Procedures in Central Banking</u>, edited by David E. Altig and Bruce D. Smith, Cambridge University Press, 2003, pp. 297-299.

"Comment on Jean-Charles Rochet: 'Rebalancing the Three Pillars of Basel II'," in <u>Federal Reserve Bank of New York Economic Policy Review</u>, 10, September 2004, pp. 27-29.

"Comment on Alan Greenspan: 'The Crisis'," <u>Brookings Papers on Economic Activity</u>, Spring 2010, pp. 50-56.

"Review of Kenneth E. Scott, George P. Shultz, and John B. Taylor, editors: <u>Ending Government Bailouts as We Know Them</u>," <u>Journal of Economic Literature</u>, 48, December 2010, pp. 1043-1046.

OPINION PIECES

"What Went Wrong With the LBO Boom," Wall Street Journal, June 19, 1991.

"The \$700 Billion Question," (with Anil Kashyap) New York Times, September 22, 2008.

"This Bailout Doesn't Pay Dividends," (with David Scharfstein) New York Times, October 21, 2008.

"The Next Financial Crisis," Harvard Crimson, May 27, 2010.

"Basel Needs a Firm Hand and Fewer Delays," (with David Scharfstein), <u>Financial Times</u>, September 13, 2010.

"Regulating Beyond Bank Size," New York Times online, December 7, 2010.

COMPENSATED OUTSIDE ACTIVITIES

A disclosure statement is available at http://www.economics.harvard.edu/faculty/stein