

## JAY A. SHANKEN

### Curriculum Vitae

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Emory University  
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Web page: [http://goizueta.emory.edu/faculty/academic\\_areas/finance/shanken\\_jay.html](http://goizueta.emory.edu/faculty/academic_areas/finance/shanken_jay.html)

### EDUCATION:

- B.S. Mathematics, SUNY at Stony Brook, 1973
- M.A. Mathematics, Cornell University, 1976
- M.S. Economics, Carnegie-Mellon University, 1980
- Ph.D. Economics, Carnegie-Mellon University, 1983

### HONORS:

- National Science Foundation Summer Research Grant, 1972.
- Graduate School of Industrial Administration Merit Fellowship, Carnegie-Mellon University, 1978-1980.
- Earhart Foundation Fellowship, 1979.
- First Place, Berkeley Doctoral Prize in Finance, 1981.
- Berkeley Finance Seminar Series: Best Speaker Prize, 1983.
- Schwabacher Fellow, 1984-1985.
- Batterymarch Fellow, 1986-1987.
- Elected to Beta Gamma Sigma, 1991.
- Institute for Quantitative Research in Finance - grant, 1992.
- Review of Financial Studies* 1992 Best Paper Award.
- Southern Finance Association Outstanding Paper on Investments, 1995.
- Institute for Quantitative Research in Finance, Roger F. Murray Prize, 1996 and 1999.
- Ranked 45<sup>th</sup> in a study of the most cited authors in the JF, JFE, and JFQA during 1974-1998.
- Inquire UK research grant, 2002.
- BSI Gamma Foundation research grant, 2002.
- Inquire Europe research grant, 2003.
- Financial Management Association Competitive Paper Award, best paper in Investments, 2003.
- Financial Analysts Journal Graham & Dodd Scroll Award, 2004.

Five previously published papers included in the International Library of Financial Econometrics, 2007.

Fama/DFA 2<sup>nd</sup> Prize for Capital Markets and Asset Pricing – *Journal of Financial Economics* best papers contest, 2010.

Selected by *Poets & Quants* as one of the World's 50 Best Business School Professors, 2012.

#### TEACHING AND RESEARCH EXPERIENCE:

2003 - present	Goizueta Chair in Finance, Emory University
2003 - 2010	Visiting Scholar, Federal Reserve Bank of Atlanta
2002 - 2003	Dean's Distinguished Professor of Finance, Emory University
2000	Visiting Professor, Yale University
1999 - 2002	Frontier Corporation Professor of Business Administration, University of Rochester
1997 - present	Research Associate, National Bureau of Economic Research Program on Asset Pricing
1990 - 2002	Professor of Finance, University of Rochester
1988 - 1990	Associate Professor of Finance, University of Rochester
1985 - 1988	Assistant Professor of Finance, University of Rochester
1981 - 1985	Assistant Professor of Finance, University of California, Berkeley
1978	Systems Analyst, Sandia Laboratories, Albuquerque, NM
1976 - 1977	Instructor in Mathematics, Clemson University
1973 - 1976	Teaching Fellow, Department of Mathematics, Cornell University

#### RESEARCH INTERESTS:

Risk-return models, theory and testing  
Portfolio management and mean-variance analysis  
Testing the informational efficiency of financial markets  
Empirical work in finance and accounting  
Bayesian and classical econometrics

COURSES TAUGHT:

Managerial Finance (MBA)  
Theory of Finance (MBA)

Capital Budgeting and Corporate Objectives (MBA)

Capital Budgeting (Erasmus Executive Program)  
Portfolio Theory and Capital Markets (MBA)  
Investments (MBA)

Investment Management and Trading Strategies (MBA)  
Advanced Topics in Capital Markets (MBA/Ph.D.)  
Empirical Studies in Finance (Ph.D.)  
Empirical Studies in Accounting (Ph.D.)

REVIEW WORK:

Advisory Editor: *Journal of Financial Economics* (2000-2011)

Associate Editor:

*Journal of Financial Economics*  
*Review of Quantitative Finance and Accounting*  
*International Journal of Portfolio Analysis & Management*

Previously Associate Editor for:

*Journal of Finance* (1990-2000)  
*Journal of Financial Economics* (1987-1999)  
*Review of Financial Studies*  
*Journal of Financial and Quantitative Analysis*  
*Financial Review*  
*Financial Analysts Journal*

Also have reviewed for:

*Econometrica*  
*Journal of Political Economy*  
*Journal of the American Statistical Association*  
*Journal of Economic Theory*  
*Journal of Monetary Economics*  
*Journal of Econometrics*  
*Journal of Accounting and Economics*  
*Management Science*  
*Journal of Economics and Business*  
*Journal of Banking and Finance*  
*International Economic Review*

*Economica*  
*Journal of Empirical Finance*  
*Financial Management*  
*Review of Economics and Statistics*  
*Managerial and Decision Economics*  
*National Science Foundation*

INVITED SEMINAR PRESENTATIONS:

*Boston College, 1992, 2004*  
*Columbia University, 1981, 1983, 1998*  
*Concordia University, 1990*  
*Cornell University, 1986, 1990, 2000*  
*Duke University, 1986, 2001*  
*Emory University, 1999, 2001*  
*Erasmus University, 1987*  
*Federal Reserve Bank of Atlanta, 2003*  
*Georgia State University, 2010*  
*Hong Kong University of Science and Technology, 2016*  
*Indiana University, 1987*  
*Imperial College, 2015*  
*Insead, 2004*  
*London Business School, 1996, 2000*  
*Massachusetts Institute of Technology, 1991, 2003*  
*McGill University, 2003*  
*National Bureau of Economic Research, 1986, 1993, 1995*  
*National University of Singapore, 2016*  
*New York University, 1981, 1986*  
*Northeastern University, 1988*  
*Northwestern University, 1981, 1986*  
*Norwegian School of Management, 2004*  
*Ohio State University, 1986, 2015*  
*Oxford University, England, 1985*  
*Pennsylvania State University, 1993*  
*Purdue University, 2002, 2013*  
*Singapore Management University, 2016*  
*Southern Methodist University, 1993*  
*Stanford University, 1982, 1984, 1986*  
*University of Alberta, 2001*  
*University of Buffalo, 1993*  
*University of British Columbia, 1983*  
*University of California, Berkeley, 1987*  
*University of California, Irvine, 1995*  
*University of California, Los Angeles, 1984, 1995*  
*University of Cambridge, England, 1995*  
*University of Chicago, 1990, 1991*  
*University of Florida, Gainesville, 2003*  
*University of Geneva, 2015*

*University of Georgia, 2004*  
*University of Hong Kong, 2016*  
*University of Illinois, Urbana-Champaign, 1987*  
*University of Iowa, 1989, 1992*  
*University of Lausanne, 2015*  
*University of Luxembourg, 2015*  
*University of Maryland, 1990, 2000*  
*University of Michigan, 1987, 1993*  
*University of New South Wales, 2011*  
*University of Notre Dame, 1988*  
*University of North Carolina, 2001*  
*University of Pennsylvania, 1983, 1989, 2001*  
*University of Rochester, 1984, 1985*  
*University of Southern California, 1983, 1985, 1987, 1994, 2004*  
*University of Sydney, 2011*  
*University of Texas, 1996*  
*University of Technology, Sydney, 2011*  
*University of Toronto, 1987, 2002*  
*University of Utah, 1991*  
*Vanderbilt University, 1988*  
*Virginia Tech, 1996*  
*Washington University, 1989, 1996*  
*University of Wisconsin, Madison, 1984, 1988*  
*Yale University, 1983, 1987, 1990, 1995*

#### ACADEMIC CONFERENCE PRESENTATIONS

##### *Papers presented*

Western Finance Association Meetings, 1983, 1984, 1994, 2003, 2009.  
American Finance Association Meetings, 1983, 1985, 1986, 1989, 1999, 2002.  
Financial Management Association Meetings, 1984.  
Financial Research Association, 2011.  
European Finance Association Meetings, 1998.  
University of Utah Winter Finance Conference, 2012.  
University of Washington Summer Finance Conference, 2012.  
Northern Finance Association Meetings, 1998, 2015.  
European Financial Management Association Meetings, 2001.  
NBER Program Meeting on Asset Pricing, 1993, 1995, 1998.  
Conference on Corporate Finance, Investment, and Taxation, *Oxford University*, England, 1985.  
Conference on Empirical Work on Arbitrage Pricing, *University of Southern California*, 1985.  
NBER Summer Institute, Workshop on Arbitrage Pricing, 1986.  
Johnson Symposium: Recent Developments in Theories and Testability of Asset Pricing, *University of Wisconsin*, Madison, 1986.

Second Conference on Making Statistics More Effective in Business Schools, "Tests of Asset Pricing Theories," *New York University*, 1987.

NBER Conference on Risk and Financial Markets, 1987.

First International Conference of the Center for Research in Finance, *Instituto Mobiliare Italiano*, Rome, Italy, 1990.

Conference on Financial Economics and Accounting, *Rutgers University*, 1990, *SUNY Buffalo*, 1991, *Washington University*, 1993, *University of Maryland*, 1995.

Isaac Newton Institute for Mathematical Sciences, Conference on Worldwide Anomalies and Behavioural Finance, *University of Cambridge*, England, 1995.

Inaugural Address, Second Conference on Financial Economics, "Recent Evidence on Cross-sectional and Time-series Variation in Expected Returns," *Universidad del Pais Vasco*, Bilbao, Spain, 1995.

NBER-NSF Seminar on Bayesian Inference in Econometrics, *Duke University*, 1987, *Ohio State University*, 1997.

Asset Pricing Conference, *Yale University*, 1998.

Simulation Based and Finite Sample Inference in Finance Conference, Laval University, Québec City, 2003, 2005.

Topics in Financial Econometrics Conference, Federal Reserve Bank of Atlanta, 2006.

#### *Discussant*

Conference on the Methodology of Event Studies, *University of Southern California*, 1983

Western Finance Association Meetings, 1983, 1984, 2002

American Finance Association Meetings, 1985, 1989, 2002, 2005, 2006, 2011

Econometric Society Meetings, 1996

European Finance Association Meetings, 1998

NBER Summer Institute, 1999.

NBER Asset Pricing Program, 1999, 2002.

Handbook of Econometrics Conference, *Princeton*, 2001

*Duke-UNC* Asset Pricing Conference, 2010

*Fordham University*, Rising Stars Conference, 2014

*ASU Sonoran Winter Finance Conference*, 2015

#### PRESENTATIONS to PRACTITIONERS

Center for Research in Security Prices Seminar, "Stock Returns and Expected Dividends," Chicago, 1992.

Berkeley Program in Finance Seminar: "Are Betas Irrelevant?" 1992.

Institutional Investor Corporate Funds Roundtable, "Are Stock Returns Predictable," Washington D.C., 1995.

Institutional Investor Seminar, "Book-to-market, Dividend Yield and Expected Market Returns," University of Cambridge, England, 1995.

Institute for Quantitative Research in Finance (Q-Group), “Book-to-market, Dividend Yield and Expected Market Returns,” San Diego, 1996.

Northfield Information Services Annual Client Conference - The Hunt for Investment Superiority, “Estimation Risk and Asset Pricing: Implications for Market Efficiency,” Jekyll Island, Georgia, 1997.

Ibbotson Associates Cost of Capital Conference, “The Predictability of Stock Returns: Implications for the Cost of Capital,” Chicago, 1997.

Society of Quantitative Analysts, “Beta and Book-to-market: Is the Glass Half Full or Half Empty?” New York City, 1997.

Institute for Quantitative Research in Finance (Q-Group), “Behavioral Finance: A (Somewhat) Skeptical View,” Palm Springs, 1999.

Institute for Quantitative Investment Research (Inquire Europe/UK), “Behavioral Finance: A (Somewhat) Skeptical View,” Amsterdam, 2000.

Center for investment Research Consultant Symposium, “Debate: Behavioral Finance,” Chicago 2000.

Barclays Capital Inflation-Linked Bond Conference, “Asset allocation with Conventional and Indexed Bonds,” Phoenix, 2000.

Renaissance Technologies, “Risk, Mispricing, and Asset Allocation: Conditioning on Dividend Yield,” Setauket NY, 2001.

Institute for Quantitative Investment Research (Inquire Europe) keynote address, “Anomalies and Asset Allocation,” Sintra Portugal, 2001.

Northfield Information Services Annual Client Conference, “Risk, Mispricing, and Asset Allocation: Conditioning on Dividend Yield,” Yosemite CA, 2002.

Barclays Global Investors, “Risk, Mispricing, and Asset Allocation: Conditioning on Dividend Yield,” San Francisco CA, 2002.

BSI Gamma Foundation Conference on the Mutual Fund Industry, “Mutual Fund Performance and Asset Allocation with Learning Across Funds,” Zurich Switzerland, 2002.

Chicago Quantitative Alliance, “Mutual Fund Performance and Asset Allocation with Learning Across Funds,” Chicago, 2004.

Institute for Quantitative Investment Research (Inquire Europe/UK), “Dividend Yield, Risk, and Mispricing: A Bayesian Analysis,” Dublin Ireland, 2005.

Deutsche Asset Management, “Mutual Fund Performance and Asset Allocation with Learning Across Funds,” New York, 2007.

Citi 10<sup>th</sup> Annual Quant Research Conference, “Cross-Sectional Asset Pricing with Individual Stocks: Betas versus Characteristics,” Sintra Portugal, 2012.

#### OTHER PROFESSIONAL ACTIVITIES:

Recommendations on promotion and tenure cases at Case Western, Cornell, Chicago, Columbia, Dartmouth, Harvard, Hebrew University, Maryland, MIT, Northwestern, NYU, Purdue, Stanford, Technion, Telaviv, UNC, Wharton, Yale.

Visiting scholar, Marshall School of Business, University of Southern California, March 2004  
Nominating Committee, American Finance Association, 1994

Session Chair, American Finance Association Meetings, 1987, 1991, 2013  
Session Chair, Southern Finance Association Meetings, 1995  
Session Chair, Conference on Financial Economics and Accounting, 1995  
Session Chair, Western Finance Association Meetings, 2002  
Session Chair, Society of Financial Studies Cavalcade, 2015  
Session Chair, Northern Finance Association, 2015  
Program Committee, American Finance Association Meetings  
Program Committee, Western Finance Association Meetings  
Program Committee, Johnson Symposium  
Program Committee, Conference on Financial Economics and Accounting  
Program Committee, SoFiE Conference on Large-scale Factor Models in Finance, 2013

Participant, NBER Conference on Econometric Methods and Financial Time Series, 1989  
Review Board, National Taiwan University International Conference on Finance  
Midterm evaluation of the Center for Research in Econometric Analysis of Time Series (CREATES) for the Danish National Research Foundation

Manuscript Review, Prospectus Review, Prentice-Hall  
Manuscript Review, Business Publications, Inc.

Prospectus Review, Irwin, Inc.  
Book Reviews, Prentice Hall, Addison Wesley.

Consultant, Morgan Stanley  
Consultant, Treynor-Arbit Associates  
Consultant, Concord Capital Management  
Consultant, Barra, Inc.  
Consultant, Acadian Asset Management  
Consultant, Synergy Asset Management Systems, Inc.  
Consultant, Aeltus Investment Management, Inc.  
Consultant, Barclays Capital

Quoted on WSJ.com story "A Look Inside a Hedge Fund's Black-Box Trading," 7/13/2010,  
<http://online.wsj.com/video/a-look-inside-a-hedge-funds-blackbox-trading/BFAFFD06-F76B-4AF3-B2D1-577D3300F2AD.html?KEYWORDS=Emory>

#### UNIVERSITY ACTIVITIES:

Finance Ph.D. Advisor, UC Berkeley, 1983-1984  
MBA Admissions Committee, 1984

Ph.D. Committee, 1985-1988, 1996-1998, 2002-present  
Finance Area Coordinator, 1988 - 1996  
Promotion and Tenure Committee, 1991-1994  
Administrative Committee, 1994-1996, 2001  
Academic Honesty Committee, 1999-2000



Policy Committee, 1991 – 1995  
Committee of Chairs, 2002-2008, 2014 to present  
Committee to benchmark renewal, promotion and tenure processes at Goizueta, 2005  
Emory Presidential Advisory Committee, 2005-2007  
Personnel Committee, 2007-2011, 2013 to present  
MBA Committee, 2007-2011  
Research Committee, 2011 to 2013 (Chair 2012-2013)  
Computing and Education Committee, 2012 to present

*Chairman of Thesis Committee* (first job):

Gonzalo Rubio (Universidad del Pais Vasco) 1985, Shing Yang Hu (National Taiwan University) 1992, Marlene Puffer (University of Toronto) 1993, Aditya Kaul (University of Alberta) 1998, Jon Lewellen (MIT) 2000, Ane Tamayo (London Business School) 2002, Michela Verardo (London School of Economics) 2004, Lance Young (University of Washington) 2005, Byoung Hwang (Purdue University) 2009, Qing Tong (Singapore Management University) 2010, Russell Jame (UNSW School of Banking and Finance) 2010, Mark Rachwalski 2014, Dexin Zhou (Baruch College) 2015.

*Member of Thesis Committee* (first job):

Jean Masson (University of Ottawa) 1989, Gita Rao (Colonial Mutual Funds) 1989, Timothy Mech (Boston College) 1990, K. Geert Rouwenhorst (Yale) 1991, David Chapman (University of Texas, Austin) 1992, Patricia Dechow (Wharton) 1992, Philip Kearns (Goldman Sachs) 1993, Jeffrey Pontiff (University of Washington, now Boston College) 1993, Mark Huson (University of Alberta) 1994, Roger Edelen (Wharton) 1996, Michelle Lowry (Penn State) 1999, Andreas Gintchel 2001, Seoyoung Kim (Purdue University) 2009, Yue Tang (University of Florida) 2011, Quan Wen (Georgetown University) 2014.

#### REFEREED PUBLICATIONS:

"The Arbitrage Pricing Theory: Is it Testable?" Journal of Finance, December 1982. Also published in International Library of Financial Econometrics – Volume 2, "Static Asset Pricing Models," edited by A. Lo, Elgar Publishing Ltd, 2007.

"Multivariate Tests of the Zero-Beta CAPM," Journal of Financial Economics, September 1985.

"Multi-Beta CAPM or Equilibrium-APT?: A Reply," Journal of Finance, September 1985. Also published in International Library of Financial Econometrics – Volume 2, "Static Asset Pricing Models," edited by A. Lo, Elgar Publishing Ltd, 2007.

"Testing Portfolio Efficiency when the Zero-beta Rate is Unknown: A Note," Journal of Finance, March 1986.

"On the Exclusion of Assets from Tests of the Mean-Variance Efficiency of the Market Portfolio: An Extension," Journal of Finance, June 1986.

"Multivariate Proxies and Asset Pricing Relations: Living with the Roll Critique," Journal of Financial Economics, March 1987.

"Nonsynchronous Data and the Covariance/Factor Structure of Returns," Journal of Finance, June 1987. Also published in International Library of Financial Econometrics – Volume 4, "Continuous-Time Methods and Market Microstructure," edited by A. Lo, Elgar Publishing Ltd, 2007.

"Subperiod Aggregation and the Power of Multivariate Tests of Portfolio Efficiency," joint with Michael Gibbons, Journal of Financial Economics, December 1987.

"A Bayesian Approach to Testing Portfolio Efficiency," Journal of Financial Economics, December 1987. Also published in International Library of Financial Econometrics – Volume 5, "Statistical Methods and Non-Standard Finance," edited by A. Lo, Elgar Publishing Ltd, 2007.

"A Test of the Efficiency of a Given Portfolio," joint with Michael Gibbons and Stephen Ross, Econometrica, September 1989. Also published in the International Library of Critical Writings in Financial Economics – "Asset Pricing Theory and Tests," edited by R. Grauer and R. Roll, 2002; and the International Library of Financial Econometrics – Volume 2, "Static Asset Pricing Models," edited by A. Lo, Elgar Publishing Ltd, 2007.

"Intertemporal Asset Pricing: An Empirical Investigation," Journal of Econometrics, July 1990. Also published in "Frontiers of Finance, the Batterymarch Fellowship Papers," edited by D. Miller and S. Myers, Basil Blackwell, Inc., 1990.

"On the Estimation of Beta-Pricing Models," Review of Financial Studies 5, Number 1, 1992. Winner of RFS best paper prize, 1992.

"Stock Return Variation and Expected Dividends: A Time Series and Cross-sectional Analysis," joint with S. P. Kothari, Journal of Financial Economics, April 1992. Also published in CRSP Proceedings, May 1992.

"The Current State of the Arbitrage Pricing Theory," Journal of Finance, September 1992.

"Lack of Timeliness versus Noise as Explanations for the Low Contemporaneous Return-Earnings Association," joint with Dan Collins, S.P. Kothari, and Richard Sloan, Journal of Accounting and Economics 18, 1994.

"Another Look at the Cross-section of Expected Returns," joint with S.P. Kothari and Richard Sloan, Journal of Finance, March 1995.

"Problems in Measuring Portfolio Performance: An Application to Contrarian Investment Strategies," joint with Ray Ball and S.P. Kothari, Journal of Financial Economics, May 1995, 79-107. Also published in the International Library of Critical Writings in Financial Economics – "Behavioral Finance, Volume I," edited by H. Shefrin and R. Roll, 2001.

"Book-to-market, Dividend Yield, and Expected Market Returns: A Time-series Analysis," joint with S.P. Kothari, Journal of Financial Economics, May 1997.

“Learning, asset-pricing tests, and market efficiency,” joint with Jon Lewellen, Journal of Finance, June 2002. Nominated for Smith-Breeden prize.

“Time-series Coefficient Variation in Value-relevance Regressions: A Discussion of Core, Guay, and Van Buskirk and New Evidence,” with S.P. Kothari, Journal of Accounting and Economics, 2003.

“Asset Allocation with Inflation-Protected Bonds” joint with S.P. Kothari, Financial Analysts Journal, January/February 2004, 54-70. Winner of Graham & Dodd Scroll Award, 2004.

“Mutual Fund Performance and Asset Allocation with Learning Across Funds,” joint with Chris Jones, Journal of Financial Economics, December 2005.

“Economic Forces and the Stock Market Revisited,” joint with Mark Weinstein, Journal of Empirical Finance, March 2006.

“Estimating and Testing Beta Pricing Models: Alternative Methods and Their Performance in Simulations,” joint with Guofu Zhou, Journal of Financial Economics 84, 2007.

“A Skeptical Appraisal of Asset-Pricing Tests, joint with J. Lewellen and S. Nagel, Journal of Financial Economics, May 2010. Winner of Fama/DFA 2<sup>nd</sup> Prize for Capital Markets and Asset Pricing – 2010 Journal of Financial Economics best papers contest.

“Payout Yield, Risk, and Mispricing: A Bayesian Analysis,” joint with Ane Tamayo, Journal of Financial Economics 105, 2012.

“Pricing Model Performance and the Two-Pass Cross-Sectional Regression Methodology,” joint with Raymond Kan and Cesare Robotti, Journal of Finance, December 2013.

#### OTHER PUBLICATIONS

"Pathfinding Simulation User's Guide," prepared for U.S. Nuclear Regulatory Commission, NUREG/CR-1589, September 1981.

"Some Statistical Problems in Testing Asset Pricing Models," Making Statistics More Effective in Schools of Business, Report on the Second Annual Conference, June 19-20, 1987.

"Fundamentals Largely Explain Stock Price Volatility," joint with S. P. Kothari, Journal of Applied Corporate Finance, Summer, 1993.

"Growth Rates, Not Levels," in An Exchange on Excess Market Volatility between Robert Shiller and S.P. Kothari & Jay Shanken, Journal of Applied Corporate Finance, Fall, 1993.

"In Defense of Beta," joint with S. P. Kothari, Journal of Applied Corporate Finance, Spring, 1995. Also published in “The Revolution in Corporate Finance,” 4<sup>th</sup> edition, Blackwell publishing, edited by J. Stern and D. Chew, 2003.

“Implications of Capital Markets Research for Corporate Finance,” joint with Clifford Smith, Financial Management, Spring, 1996.

“Statistical Methods in Tests of Portfolio Efficiency,” *Handbook of Statistics*, Vol. 14, Elsevier Science B.V., 1996.

“Beta and Book-to-Market: Is the Glass Half Full or Half Empty?” joint with S.P. Kothari, *Security Market Imperfections in World Wide Equity Markets*, edited by D. Keim and W. Ziemba, Cambridge University Press, 2000.

“Anomalies and Efficient Portfolio Formation,” joint with S.P. Kothari, monograph, Association for Investment Management and Research – organization that administers the Chartered Financial Analysts certification, 2002.

#### WORKING PAPERS:

“Cross-Sectional Asset Pricing with Individual Stocks: Betas versus Characteristics,” 2015, joint with Tarun Chordia and Amit Goyal.

“Comparing Asset Pricing Models,” 2015, joint with Francisco Barillas.

“Which Alpha?,” 2015, joint with Francisco Barillas.

“Testing Inequality Restrictions in Multifactor Asset-Pricing Models,” 2015, joint with Cesare Robotti and Adelina Barbalau.

#### FAVORITE BAND

THE  
BEATLES

4/22/2016