BRAD M. BARBER

Marcia J. and Maurice G. Gallagher Professor of Finance Graduate School of Management University of California, Davis Davis, CA 95616-8609 (530) 752-0512Mean Marcia J. and Maurice G. Gallagher Professor of Finance Graduate School of ManagementEDUCATION:Ph.D., The University of Chicago, Chicago, IL, 1991 M.B.A., The University of Chicago, Chicago, IL, 1987 B.S., University of Illinois, Urbana, IL, 1983ACADEMIC DEMICUniversity of California, Davis, Graduate School of Management
University of California, Davis Davis, CA 95616-8609 www.bradmbarber.com(530) 752-0512www.bradmbarber.combmbarber@ucdavis.eduEDUCATION:Ph.D., The University of Chicago, Chicago, IL, 1991 M.B.A., The University of Chicago, Chicago, IL, 1987 B.S., University of Illinois, Urbana, IL, 1983ACADEMIC DOWNENDEUniversity of California, Davis, Graduate School of Management
University of California, Davis Davis, CA 95616-8609 www.bradmbarber.com(530) 752-0512www.bradmbarber.combmbarber@ucdavis.eduEDUCATION:Ph.D., The University of Chicago, Chicago, IL, 1991 M.B.A., The University of Chicago, Chicago, IL, 1987 B.S., University of Illinois, Urbana, IL, 1983ACADEMIC DOWNENDEUniversity of California, Davis, Graduate School of Management
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(530) 752-0512www.bradmbarber.combmbarber@ucdavis.eduEDUCATION:Ph.D., The University of Chicago, Chicago, IL, 1991 M.B.A., The University of Chicago, Chicago, IL, 1987 B.S., University of Illinois, Urbana, IL, 1983ACADEMIC DEMICEUniversity of California, Davis, Graduate School of Management
M.B.A., The University of Chicago, Chicago, IL, 1987B.S., University of Illinois, Urbana, IL, 1983ACADEMIC University of California, Davis, Graduate School of Management
POSITIONS: Gallagher Professor of Finance, 2008 – present Associate Dean for Academic Affairs, 2015 – 2018 Professor, 2001 – 2008 Associate Professor, 1996 – 2001 Assistant Professor, 1990 – 1996
 HONORS: Fellow, Financial Management Association 2019 Jack Treynor Prize, Q Group, 2017 (Performance Isn't Everything) Moskowitz Prize, Best Paper on Socially Responsible Investing, 2016 (Impact Investing) Graham-Dodd Award of Excellence for <u>Financial Analyst Journal</u>, 2013 (Do (Some) University Endowments earn Alpha?") Top Fifty (Finance) Authors Ranked by Total Citations, 2009ⁱ Moskowitz Prize, 2006 (Monitoring the Monitor) Best Conference Paper, European Finance Association, 2005 (All that Glitters) Graham-Dodd Award of Excellence for <u>Financial Analyst Journal</u>, 2000 (The Performance of Investment Clubs) Fama-DFA Prize for Best Paper Published in <u>Journal of Financial Economics</u>, 1997 (Detecting Long-Run Abnormal Stock Returns) All-Star Paper, <u>Journal of Financial Economics</u>, 1996 (Detecting Abnormal Operating Performance) Teacher of the Year, UC-Davis, Graduate School of Management, (2004-0 1998-99, 1996-97, 1991-92).
CITATIONS:

	All	Since 2014			I.	l	į,	l	L	
Citations	30,421	13,462	- 4	ł	I.	I.	I.	L	L	
h-index i10-index	36 50	33 40			L			L		L
	Scholar, Au	g 2019		L	L	L	L	L		L
			2012	2013	2014	2015	2016	2017	2018	2019

ⁱ Alderson, Michael J. , Saporoschenko, Andrew and Nasseh, Alireza , The Relative Significance of Finance Journals, Authors and Articles: An Update (November 6, 2009). Advances in Financial Education, 2009. Available at SSRN: http://ssrn.com/abstract=1593069

- PUBLICATIONS
IN REFEREED
JOURNALS:"Learning, Fast or Slow," with Y. Lee, Y. Liu, T. Odean, and K. Zhang, <u>Review</u>
of Asset Pricing Studies, forthcoming.
 - "STEM Parents and Women in Finance," with R. Adams and T. Odean, <u>Financial</u> <u>Analysts Journal</u>, vol. 74, no. 2, pp.84-97, 2018.
 - "Made Poorer by Choice: Worker Outcomes in Social Security vs. Private Retirement Accounts," with J. Ahmed and T. Odean. Journal of Banking and Finance, vol. 92, pp. 311-322, 2018.
 - "Interim Fund Performance and Fundraising in Private Equity," with A. Yasuda. Journal of Financial Economics, vol. 124, pp.172-194, 2017.
 - "Which Factors Matter to Investors: Evidence from Mutual Fund Flows," with X. Huang and T. Odean. <u>Review of Financial Studies</u>, vol. 29, pp. 2600-42, 2016.*
 - "The Cross-Section of Speculator Skill: Evidence from Day Trading," with Y. Lee, Y. Liu, and T. Odean, Journal of Financial Markets, vol. 18, pp.1-24, 2014.*
 - "The Earnings Announcement Premium around the Globe," with E. DeGeorge, R. Lehavy, and B. Trueman, <u>Journal of Financial Economics</u>, vol. 108, pp. 118-138, 2013.*
 - "Do (Some) University Endowments earn Alpha?" with G. Wang, <u>Financial</u> <u>Analysts' Journal</u>, vol. 69, pp. 26-44, 2013.
 - "Once Burned, Twice Shy: How Naïve Learning and Counterfactuals affect the Repurchase of Stocks Previously Sold," with T. Odean and M. Strahlevitz, Journal of Marketing Research, vol. 48, pp.S102-S120, 2011.*
 - "Ratings Changes, Rating Levels, and the Predictive Value of Analysts' Recommendations," with R. Lehavy and B. Trueman, <u>Financial Management</u>, vol. 39, no. 2, pp.533-553, 2010.*
 - "Systematic Noise," with T. Odean and N. Zhu, <u>Journal of Financial Markets</u>, vol. 22, no. 4, pp. 547-569, 2009.***
 - "Just How Much Do Individuals Lose by Trading?" with Y. Lee, Y. Liu, and T. Odean, <u>Review of Financial Studies</u>, vol. 22, no. 2, pp.609-632, 2009.***
 - "Do Retail Trades Move Markets?" with T. Odean and N. Zhu, <u>Review of</u> <u>Financial Studies</u>, vol. 22, no. 1, pp.151-186, 2009.***
 - "All that Glitters: The Effect of Attention on the Buying Behavior of Individual and Institutional Investors," with T. Odean, <u>Review of Financial Studies</u>, vol. 21, no. 2, pp.785-818, 2008.***
 - "Monitoring the Monitor: Evaluating CalPERS Shareholder Activism," Journal of Investing, vol. 16, no. 4, pp.66-80, Winter 2007.*

PUBLICATIONS (CONTINUED) "Is the Aggregate Investor Reluctant to Realize Losses? Evidence from Taiwan" with Y. Lee, Y. Liu, and T. Odean, <u>European Financial Management</u>, vol. 13, no. 3, pp.423-447, June 2007.**

- "Comparing the Stock Recommendation Performance of Investment Banks and Independent Research Firms," with R. Lehavy and B. Trueman, <u>Journal of</u> <u>Financial Economics</u>, vol. 85, no. 2, pp. 490-517, 2007.**
- "Buys, Holds, and Sells: The Distribution of Investment Banks' Stock Ratings and the Implications for the Profitability of Analysts' Recommendations," with R. Lehavy, M. McNichols, and B. Trueman, <u>Journal of Accounting and</u> <u>Economics</u>, vol. 41, no. 1-2, pp. 87-117, April 2006.**
- "Out of Sight, Out of Mind: The Effects of Expenses on Mutual Fund Flows," with T. Odean and L. Zheng, Journal of Business, vol. 78, ni. 6, pp. 2095-2119, November 2005.***
- "Are Individual Investors Tax Savvy? Evidence from Retail and Discount Brokerage Accounts," with T. Odean, <u>Journal of Public Economics</u>, vol. 88, no. 1-2, pp.419-442, January 2004.*
- "Good Reasons Sell: Reason-Based Choice Among Group and Individual Investors in the Stock Market," with T. Odean and C. Heath, <u>Management</u> <u>Science</u>, vol. 49, no. 12, pp.1636-52, December 2003.*
- "Prophets and Losses: Reassessing the Returns to Analysts' Recommendations," with R. Lehavy, M. McNichols, and B. Trueman, <u>Financial Analyst Journal</u>, vol. 59, no. 2, pp.88-96, March/April 2003.*
- "Online Investors: Do the Slow Die First?" with T. Odean, <u>Review of Financial</u> <u>Studies</u>, Vol. 15, No. 2, pp. 455-489, 2002.***
- "Challengers, Elites, and Owning Families: A Social Class Theory of Corporate Acquisitions in the 1960s," with D. Palmer, <u>Administrative Science</u> <u>Quarterly</u>, Vol. 46, No. 1, pp. 87-120, 2001.**
- "Can Investors Profit from the Prophets? Consensus Analyst Recommendations and Stock Returns," with R. Lehavy, M. McNichols, and B. Trueman, <u>Journal</u> of Finance, Vol. 56, no. 2, pp.773-806, April 2001.***
- "Boys will be Boys: Gender, Overconfidence, and Common Stock Investment," with T. Odean, <u>Quarterly Journal of Economics</u>, Vol. 116, no.1, pp.261-292, February 2001.***
- "The Internet and the Investor," with T. Odean, <u>Journal of Economic</u> <u>Perspectives</u>, Vol. 15, No. 1, pp.41-54, 2001.***
- "Trading is Hazardous to Your Wealth: The Common Stock Investment Performance of Individual Investors," with T. Odean, <u>Journal of Finance</u>, Vol. 55, no. 2, pp.773-806, April 2000.***

- PUBLICATIONS
(CONTINUED)"Too Many Cooks Spoil the Profits: Investment Club Performance," with T.
Odean, Financial Analyst Journal, Vol. 56, No. 1, pp.17-25, 2000.*
 - "The Courage of Misguided Convictions: The Trading Behavior of Individual Investors," with T. Odean, <u>Financial Analyst Journal</u>, Vol. 55, No. 6, pp.41-55, 1999.***
 - "Improved Methods for Tests of Long-Run Abnormal Stock Returns," with J. Lyon and C. Tsai, Journal of Finance, Vol. 54, No. 1, pp.165-201, 1999.***
 - "The Impact of Shocks to Exchange Rates and Oil Prices on U.S. Sales of Japanese and American Automakers," with R. Click and M. Darrough, Japan and the World Economy, Vol. 11, No. 1, pp.57-93, 1999.
 - "Detecting Long-Run Abnormal Stock Returns: The Empirical Power and Specification of Test Statistics," with J. Lyon, <u>Journal of Financial</u> <u>Economics</u>, Vol. 43, No. 3, pp. 341-372, 1997.***
 - "Firm Size, Book-to-Market Ratio, and Security Returns: A Holdout Sample of Financial Firms," with J. Lyon, <u>Journal of Finance</u>, Vol. 52, No. 5, pp. 875-883, 1997.**
 - "Detecting Abnormal Operating Performance: The Empirical Power and Specification of Test-Statistics," with J. Lyon, <u>Journal of Financial</u> <u>Economics</u>, Vol. 41, No. 3, pp. 359-400, 1996.***
 - "Product Reliability and Firm Value: The Experience of Japanese and American Automakers 1973-1992," with M. Darrough, <u>Journal of Political Economy</u>, Vol. 104, No. 5, pp. 1084-1099, 1996.*
 - "Forecasting The Discounts of Market Prices from Appraised Values for Real Estate Limited Partnerships," <u>Real Estate Economics</u>, Vol. 24, No. 4, pp. 471-491, 1996.
 - "The Determinants of Conglomerate and Predatory Acquisitions: Evidence from the 1960s," with D. Palmer and J. Wallace, <u>Journal of Corporate Finance</u>, Vol. 1, No. 3/4, pp. 283-318, 1995.
 - "The Other Contested Terrain: The Friendly and Predatory Acquisition of Large U.S. Corporations during the 1960s," with D. Palmer, X. Zhou, and Y. Soysal, <u>American Sociological Review</u>, Vol. 60, No. 4, pp. 469-499, 1995.*
 - "The Finance Conception of Control the Theory that Ate New York: Reply to Fligstein," with D. Palmer, X. Zhou, <u>American Sociological Review</u>, Vol. 60, No. 4, pp. 504-508, 1995.
 - "Noise Trading and Prime and Score Premiums," Journal of Empirical Finance, Vol. 1, No. 3/4, pp. 251-278, 1994.

PUBLICATIONS	"The	Fraud-on-the-Market	Theory	and	Indicators	of	Common	Stocks'
(CONTINUED)		ficiency," with P. Griff						
	Ne	o. 2, pp. 285-312, 1994	*					

"The Dartboard Column: Second-Hand Information & Price Pressure," Journal of <u>Financial and Quantitative Analysis</u>, Vol. 28, No. 2, pp. 273-282, 1993.**

"Exchangeable Debt," Financial Management, Vol. 22, No. 1, pp. 48-60, 1993.

OTHER PUBLICATIONS: "The Behavior of Individual Investors," with T. Odean, chapter in <u>Handbook of</u> <u>the Economics and Finance</u>, Elsevier, co-edited by G. Constantinides, M. Harris, and R. Stulz, 2013, pp.1533-1569.**

- "News and the Buying Behavior of Individual Investors," with T. Odean, chapter in <u>The Handbook of News Analytics in Finance</u>, co-edited by L. Misra and G. Misra, 2011, pp.173-210.
- "Pension Fund Activism: The Double-Edged Sword," chapter in <u>The Future of</u> <u>Public Employee Retirement Systems</u>, Oxford University Press, co-edited by Gary Anderson and Olivia Mitchell, p.271-293.
- "Privatized Pensions: An Irrational Choice," with D. Kahneman and T. Odean, <u>Global Agenda Magazine</u>, 2005.
- "Does online investing change investor behavior?" with T. Odean, <u>European</u> <u>Business and Organization Law Review</u>, Vol. 3, No. 1, pp.83-129, 2002.
- "Investing Advice from Television Advertising," with K. Elsbach and T. Odean, AARP, 2002.
- "Assessing the Costs of Security Trading," with R. Leftwich, in <u>Mastering</u> <u>Finance</u>, Pitman Publishing, London, pp.202-210, 1998.
- "The Elusive Butterfly of Superior Returns," with R. Leftwich, in <u>Mastering</u> <u>Finance</u>, Pitman Publishing, London, pp.263-270, 1998.
- "Book Review: Investment Science, by David Luenberger," Journal of Finance, Vol. 53, No. 6, pp.2261-2264, 1998.

WORKING PAPERS: Working papers are updated on <u>my SSRN author page</u> and www.bradmbarber.com

EDITOR	Associate Editor, Journal of Financial Economics, 2019 – present							
	Guest Associate Editor, Management Science Climate Change Issue, 2019-20							
	Associate Editor, Research in Asset Pricing Studies, 2011-2016							
	Department Editor (Finance), Management Science, 2009 – 2012							
	Associate Editor, Management Science, 2008 – 2009							
	Associate Editor, Financial Management, 2006 – 2010							
	Associate Editor, Review of Financial Studies, 2002 – 2005							
	Associate Editor, Journal of Empirical Finance, 2002 – 2008							
PROFESSIONAL ACTIVITIES:	Financial Economics Roundtable, member 2019 – present							
	Principles of Responsible Investing, Corporate Award Committee, Spring 2019							
	Principles of Responsible Investing, Academic Advisory Board, 2018 - present							
	Diversity Emerging Scholars Initiative, Mentor 2019 Program							
	Financial Management Association, President 2017							
	Academic Female Finance Committee (AFFECT), Advisory Board Member, 2015-2019; Board Member, 2019 – present							
	Northern Finance Association, Doctoral Consortium, 2015							
	Financial Management Association, VP Program for the 2015 Annual Meeting							
	Financial Management Association, Academic Director, 2010 - 2012							
	Financial Management Association, Financial Management Editor Selection Subcommittee, 2010							
	Financial Management Association & UC Davis Napa Conference, Founder and Program Director, 2001 - present							
	Financial Management Association, Program Track Chair, 2004							
	Financial Management Association, Doctoral Consortium, 2001, 2010, & 2016							
	National Science Foundation, Panel Reviewer, June 2004							
KEYNOTES	Singapore Management University Sustainability Conference, November 2019							
	Helsinki Finance Summit, August 2015							
	California Corporate Finance Conference, November 2014							

REVIEWER:	National Science Foundation • American Economic Review • Quarterly Journal of Economics • Journal of Financial Economics • Journal of Finance • Review of Financial Studies • Journal of Financial and Quantitative Analysis • Journal of Accounting Research • Journal of Accounting and Economics • Accounting Review • Review of Accounting Studies • Review in Finance • Financial Analyst Journal • Journal of Economic Behavior and Organization • Journal of Empirical Finance • Journal of Banking and Finance • Journal of Corporate Finance • Financial Management • Journal of Financial Research • Real Estate Economics • Review of Financial Economics							
GRANTS	CalPERS Sustainable Investment Research Initiative, 2015-18 (\$100,000)							
	UC Davis Provost's Hybrid Course Award (\$13,500)							
	CalPERS Sustainable Investment Research Initiative, 2012-15 (\$340,000)							
	BSI Gamma Foundation, 2005 (\$12,000)							
	National Science Foundation, 2001-2004 (\$157,000)							
	Q-Group, 2002 (\$10,000)							
UNIVERSITY	Research Coordinating Council, member 2016-2018							
SERVICE	Vice Provost Search Committee, member 2016-2017							
	Graduate School of Management, Associate Dean, 2015-2018							
	Graduate School of Management, Faculty Chair, 2009-2011, 2014-2015							
	UC Davis Executive Council, member 2009-2011, 2014-2015							
	Graduate School of Management. Executive Committee, 2006-2010							
	Graduate School of Management, Faculty Personnel Committee, 2002-2005							
	Director, Center for Investor Welfare, 2006-present							
	,							

Papers Presented

ACADEMIC

CONFERENCE

PARTICIPATION:

- Washington Summer Finance Conference, July 2018, "Private Company Valuations by Mutual Funds"
 - UC Riverside Citrus Conference, Apr 2016, "Which Factors Matter to Investors"
- Cal Tech Private Equity Conference, Mar 2016, "Impact Investing"

U. of Miami Behavioral Finance Conference, Miami, FL, Dec 2014, "Which Factors Matter to Investors"

- BYU Red Rock Conference, Zion, Utah, September 2014, "Interim Fund Performance and Fundraising in Private Equity"
- Finance Symposium at HKUST, Hong Kong, December 2008, "Day Trading in Equilibrium"
- First Steps in Understanding Market Ecologies at Santa Fe Institute, July 2008, "Day Trading in Equilibrium"
- Wharton Pension Research Council, May 2008, "Pension Fund Activism: The Doubl-Edged Sword"

NBER, October 2004, "Do Day Traders Make Money?"

Wharton Household Financial Decision Making, March 2004, "Who Gains from Trade? Evidence from Taiwan"

- Wharton Household Financial Decision Making, March 2001, "Online Investors: Do the Slow Die First?"
- Stanford Institute of Economic Policy Research, March 2001, "Are Individual Investors Tax Savvy?"

Maryland Finance Symposium, November 2000, "Online Investors: Do the Slow Die First?" NBER, November 2000, "The Behavior of Mutual Fund Investors"

- WFA, July 2000, "Online Investors: Do the Slow Die First?" and "Can Investors Profit from the Prophets?"
- WFA, July 1999, "Boys will be Boys: Gender, Overconfidence, and Common Stock Investment."

AFA, January 1999, "The Common Stock Investment Performance of Individual Investors."

Ninth Annual Conference on Finance and Accounting, NYU, November 1998, "Can Investors Profit from the Prophets?" and "The Common Stock Performance of Individual Investors."

NBER, October 1998, "Can Investors Profit from the Prophets?"

- Eighth Annual Conference on Finance and Accounting, SUNY-Buffalo, November 1997, "Improved Methods for Tests of Long-Run Abnormal Stock Returns."
- WFA, June 1997, "Improved Methods for Tests of Long-Run Abnormal Stock Returns."

AFA, January 1997, "Detecting Long-Run Abnormal Stock Returns."

NBER, February 1994, "Noise Trader Risk, Odd-Lot Trading and Security Returns."

AFA Meetings, January 1994, "The Determinants of Conglomerate and Predatory Acquisitions during the 1960s."

FMA Meetings, October 1992, "Primes and Scores."

FMA Meetings, October 1992, "Why Do Firms Initiate Dividends."

WEA Meetings, July 1992, "Pricing of Primes and Scores."

Discussant (or Session Chair*) ACADEMIC Red Rock Conference, Sept 2019 "The Consumption Effects of the Disposition to Sell **CONFERENCE** Winners and Hold on to Losers" **PARTICIPATION:** ABFER Annual Conference, May 2019, " AFA Meetings, Jan 2018, "Inside Brokers" Miami Behavioral Finance, Dec 2017, "The Promise and Pitfalls of Robo-advising" NBER Behavioral Meeting, Oct 2016, "Does it Pay to Pay Attention" AFA Meetings, Jan 2016, "The Display of Information" WFA Meetings, June 2013, "Human Nature, Psychology and Finance" WFA Meetings, June 2013, "Behavioral Investors Biases"* AFA Meetings, January 2013, "Analysts: Forecasts, Following, etc." AFA Meetings, January 2013, "Behavioral Finance - Individuals"* AFA Meetings, January 2011, "Mutual Funds and Hedge Funds Managers' Behavior" AFA Meetings, January 2009, "Analysts and Financial Marketing" Assoc. of American Law Schools (AALS) Meetings, January 2009, "Law and Finance" NBER Asset Pricing, July 2008, "Depression Babies" WFA Meetings, June 2007, "Retail Investors" AFA Meetings, January 2004, "Post-Earnings Announcement Drift" WFA Meetings, June 2003, "Portfolio Choice of Individual Households"* AFA Meetings, January 2003, "Earnings Information" AFA Meetings, January 2002, "Momentum"* FMA, October 2001, "Market Efficiency" and "Doctoral Consortium" WFA Meetings, June 2001, "Momentum" AFA Meetings, January 2001, "IPOs" and "Mutual Funds" UCLA Behavioral Finance, April 1998, "Investor Expectations." WFA Meetings, June 1996, "Secondary Issues of Securities." WFA Meetings, June 1995, "Closed-End Funds." WFA Meetings, June 1992, "Corp. Control: Empirical Evidence." WFA Meetings, June 1991, "Taxes and Corporate Finance."

INVITED ACADEMIC PRESENTATIONS

Tsinghua University, Nov. 2019* Peking University, Nov. 2019* U. of Notre Dame, Sept. 2019* Chinese University of Hong Kong, May 2019 U. of Hamburg, Feb 2019 Cambridge University, Feb 2019 U. of Massachusetts, Nov 2018 George Washington Univ., Oct 2018 Federal Reserve Board. Oct 2018 U. of Illinois, Oct 2017 Securities and Exchange Commission. Sept 2017 U. of Kansas, April 2017 MIT, Nov 2016 U. of San Diego, Oct 2016 Maastricht, Sept 2016 U. of Tilburg, Sept 2016 UC Irvine, Jan 2016 Tulane Nov 2015 USC, Sept. 2015 Case Western, Sept. 2014 Vanderbilt University, Sept. 2014 Cleveland Federal Reserve, Sept. 2014 University of Michigan, March 2014 Michigan State, March 2014 University of Arizona, December 2013 Drexel. November 2013 UT Dallas, October 2013 George Washington, Sept 2013 SMU, November 2012 Temple University, November 2012 UC San Diego, February 2012 Georgia Tech, September 2011 University of Washington, October 2011 Australia FIRN, June 2010 Oregon University, April 2010 Texas A&M, September 2009 Santa Clara University, February 2009 Peking University, Dec 2008 University of Michigan, Oct 2008 University of British Columbia, Oct 2008 Securities and Exchange Commission, Sept 2008 UT Austin, March 2008 UC Berkeley, December 2007 Stanford University, December 2007 Boston College, December 2007 University of Alberta, October 2007 Washington University, September 2007 National Chengchi University, March 2007 National Dong Hwa University, March 2007 Chinese University of Hong Kong, March 2007

UCLA, October 2006 Insead, March 2006 HEC, March 2006 University of Illinois, December 2004 Yale University, October 2004 University of Virginia, September 2004 University of Utah, April 2004 University of North Carolina, December 2003 National Science Council of Taiwan, Taipei, October 2003 UC-Riverside, May 2003 University of Southern California, November 2002 Cornell University, April 2002 Arizona State University, March 2002 Vanderbilt, March 2002 Wharton, February 2002 Emory, November 2001 UC-Berkeley, November 2000 UCLA, October 2000 University of Florida, March 2000 Southern Methodist University, October 1999 University of Houston, October 1999 UC-Berkeley, September 1999 Baruch College, October 1998 University of Notre Dame, September 1998 University of Illinois, September 1998 University of Oregon, December 1997 University of British Columbia, September 1997 University of Washington, April 1997 UC-Berkeley, November 1996 Ohio State, October 1996 University of Michigan, February 1996.UC-Berkeley, February 1995 Stanford University, June 1992 Washington State University, June 1991

INVITED PRACTITIONER PRESENTATIONS

Principles of Responsible Investing, March 2019 Orange Silicon Valley, June 2018 CFA Institute, Sept 2017 CalPERS Board Presentation, June 2017 Dimensional Fund Advisers, Oct-Nov 2013 JOIM Conference, September 2013 CalPERS Board Presentation, June 2013 Dimensional Fund Advisers, Sept-Oct 2012 State Association of County Retirement Systems (SACRS), Berkeley, CA August 2010 Value of Values Conference, Santa Clara, CA May 2010 JOIM Conference, San Franciso, CA March 2010 DFA Advisor College, Austin and Los Angeles, Fall 2010 US Pension Summit, Indian Wells, CA, October 2008. CFA Research for the Practitioner, Vancouver, BC, May 2008. State Association of County Retirement Systems, Indian Wells, CA, November 2007. SEC Roundtable on Mutual Fund Expenses, Washington DC, June 2007. New York Quantitative Society, New York, NY, June 2007 Taiwan Practitioner Conference, Taipei, Taiwan, March 2007. Loring Ward Advisor Conference, Monterey, CA, March 2007. Goldman Sachs Asset Management, New York, NY, October 2006. Charles Schwab Webcast, San Francisco, CA, May 2006 JOIM Conference, San Francisco, CA, March 2006. Financial Planning Association Australia, November 2005. Dimensional Fund Advisors Australia, November 2005. Orange County Employee Retirement System, October 2004. Dimensional Fund Advisors, August 2004. IIR Conference, London, February 2003.

Barclays Global Investors, San Francisco, December 2002. Berkelev Program in Finance, October 2002. Investment Company Institute, Washington, DC, September 2002. Tate, Propp, Beggs & Sugimoto, Sacramento, CA, September 2002. Chicago Quantitative Alliance, Las Vegas, NV, April 2001. American Council of Life Insurers, Tucson, AZ, September 2000. Goldman Sachs Asset Management, NY, NY, September 2000. Morgan Stanley Proprietary Trading, NY, NY, September 2000. Mercer Global Advisors, Las Vegas, NV, October 2000. SEI Investments, Atlanta, GA, October 2000. SEI Investments, Dallas, TX, May 2000. Merrill Lynch Conference, San Diego, CA, April 2000. Institutional Investor Public Funds Conference, Miami, FL, March 2000. Mellon Capital Management, San Francisco, CA, October 1999. Dimensional Fund Advisors Program, Chicago, IL, July 1999. Investment Management Programme, London, UK, June 1999. The Q-Group, Palm Beach, FL, March 1998. Barclays Global Investors, San Francisco, CA, October 1997.