

ZHI DA

258 Mendoza College of Business
University of Notre Dame
Notre Dame IN 46556

Tel: (574) 631-0354
E-mail: zda@nd.edu
Website: <http://www.nd.edu/~zda>

EMPLOYMENT

University of Notre Dame, Mendoza College of Business
Howard J. and Geraldine F. Korh Professor of Finance, 2020/11 –
Professor of Finance, 2016 –
Notre Dame Professor of Finance, 2020/03 – 2020/10
Viola D. Hank Associate Professor of Finance, 2012 – 2016
Assistant Professor of Finance, 2006 – 2012

EDUCATION

2006 PhD in Finance, Northwestern University
2001 MSc in Financial Engineering, National University of Singapore
1999 BBA (1st class honors), National University of Singapore

EDITORIAL POSITIONS

Journal of Finance, Associate Editor, 2021 - present
Review of Financial Studies, Associate Editor, 2018 - 2021
Journal of Financial and Quantitative Analysis, Associate Editor, 2021 - present
Management Science, Associate Editor, 2020 - present
Critical Finance Review, Associate Editor, 2019 - present
Journal of Banking and Finance, Associate Editor, 2018 - present
International Review of Finance, Associate Editor, 2016 - present
Pacific-Basin Finance Journal, Associate Editor, 2015 - present
Finance Research Letters, Co-Editor, 2013-2014

SELECTED PUBLICATIONS

“Who Pays Attention to SEC Form 8-K?” (with Azi Ben-Rephael, Peter Easton and Ryan D. Israelsen), conditionally accepted at *The Accounting Review*

“Short Selling Efficiency” (with Yong Chen and Dayong Huang), accepted at *Journal of Financial Economics*

“Hedging Demand and Market Intraday Momentum” (with Guido Baltussen, Sten Lammers, and Martin Martens), *Journal of Financial Economics*, Vol 142, 377-403 (2021)

“Extrapolative Beliefs in the Cross-section: What Can We Learn from the Crowds” (with Lawrence Jin and Xing Huang), *Journal of Financial Economics*, Vol 140, 175-196 (2021)

“Information Consumption and Asset Pricing” (with Azi Ben-Rephael, Bruce Carlin, and Ryan D. Israelsen), *Journal of Finance*, Vol 76, 357-394 (2021)

“Investment in a Smaller World: The Implications of Air Travel for Investors and Firms” (with Umit Gurun, Bin Li, and Mitch Warachka), *Management Science*, Vol 67, 417-435 (2021)

“Harnessing the Wisdom of Crowds” (with Xing Huang), *Management Science*, Vol 66, 1847-1867 (2020)

“Arbitrage Trading: the Long and the Short of it” (with Yong Chen and Dayong Huang), *Review of Financial Studies*, Vol 32, 1608-1646 (2019)

“Indexing and Stock Market Serial Dependence around the World” (with Guido Baltussen and Sjoerd van Bakkum), *Journal of Financial Economics*, Vol 132, 26-48 (2019)

“Destabilizing financial advice: Evidence from pension fund reallocations” (with Borja Larrain, Clemens Sialm, and Jose Tessada), *Review of Financial Studies*, Vol 31, 3720-3755 (2018).

“Fiscal Policy, Consumption Risk, and Stock Returns: Evidence from US States” (With Hayong Yun and Mitch Warachka), *Journal of Financial and Quantitative Analysis*, Vol 53, 109-136 (2018).

“It Depends on Where You Search: Institutional Investor Attention and Underreaction to News” (with Azi Ben-Rephael and Ryan D. Israelsen), *Review of Financial Studies*, Vol 30, 3009-3047 (2017).

“Industrial Electricity Usage and Stock Returns” (with Dayong Huang and Hayong Yun), *Journal of Financial and Quantitative Analysis*, Vol 52, 37-69 (2017). *Winner of 2017 Sharpe Award*

“Household Production and Asset Prices” (with Wei Yang and Hayong Yun), *Management Science*, Vol 62, 387-409 (2016).

“The Sum of All FEARS: Investor Sentiment and Asset Prices” (with Joey Engelberg and Pengjie Gao), *Review of Financial Studies*, Vol 28, 1-32 (2015), *lead article*

“Frog in the Pan: Continuous Information and Momentum” (With Umit Gurun and Mitch Warachka), *Review of Financial Studies*, Vol 27, 2171-2218 (2014).

“A Close Look at the Short-term Return Reversal” (with Qianqiu Liu and Ernst Schaumburg), *Management Science*, Vol 60, 658-674 (2014).

“What Drives Stock Price Movement?” (with Long Chen and Xinlei Zhao), *Review of Financial Studies*, Vol 26, 841-876 (2013), *lead article*

“Dividend Smoothing and Predictability” (with Long Chen and Richard Priestley), *Management Science*, Vol 58, 1834-1853 (2012).

“CAPM for Estimating the Cost of Equity Capital: Interpreting the Empirical Evidence” (with Re-Jin Guo and Ravi Jagannathan), *Journal of Financial Economics*, Vol 103, 204-220 (2012)

“In Search of Attention” (with Joey Engelberg and Pengjie Gao), *Journal of Finance*, Vol 66, 1461-1499 (2011), *lead article*

“The Disparity between Long-term and Short-term Forecasted Earnings Growth” (with Mitch Warachka), *Journal of Financial Economics*, Vol 100, 424-442 (2011)

“Impatient Trading, Liquidity Provision, and Stock Selection by Mutual Funds” (with Pengjie Gao and Ravi Jagannathan), *Review of Financial Studies*, Vol 24, 675-720 (2011)

“Clientele Change, Liquidity Shock and the Return on Financially Distressed Stocks” (with Pengjie Gao), *Journal of Financial and Quantitative Analysis*, Vol 45, No. 1, 27-48 (2010)

“Cashflow Risk, Systematic Earnings Revisions, and the Cross-Section of Stock Returns” (with Mitch Warachka), *Journal of Financial Economics*, Vol 94, 448-468 (2009)

“Cash Flow, Consumption Risk and Cross Section of Stock Returns,” *Journal of Finance*, Vol 64, No. 2, 923-956 (2009).

OTHER PUBLICATIONS

“Exchange-Traded Funds and Asset Return Correlations” (With Sophie Shive), *European Financial Management*, Vol 24, 136-168 (2018)

“What Moves Investment Growth?” (With Long Chen and Borja Larrain), *Journal of Money, Credit, and Banking*, Vol 48, 1613-1653 (2016)

“What Drives Target Price Forecasts and Their Investment Value?” (With Keejae Hong and Sangwoo Lee), *Journal of Business Finance, and Accounting*, Vol 43, 487-510 (2016)

“Lottery Tax Windfalls, State-Level Fiscal Policy, and Consumption” (With Hayong Yun and Mitch Warachka), *Economics Letters*, Vol 129, 9-12 (2015)

"Implementing Black-Litterman using an Equivalent Formula and Equity Analyst Target Prices" (with Leon Chen and Ernst Schaumburg), *Journal of Investing*, Vol 24, 34-47 (2015)

“Relative Valuation and Analyst Target Price Forecasts” (with Ernst Schaumburg), *Journal of Financial Markets*, Vol 14, 161-192 (2011)

“Pricing Options using Implied Trees: Evidence from FTSE-100 Options” (with Kian Guan Lim) *Journal of Futures Markets*, Vol. 22, No.7, 601-626 (2002)

WORKING PAPERS

“Margin Trading and Leverage Management,” (with Jiangze Bian, Zhiguo He, Dong Lou, Kelly Shue, and Hao Zhou)

“Information Diffusion on Social Media: Does It Affect Trading, Return, and Liquidity?” (with Mao Ye, Nitesh Chawla, and Jian Xu)

“Financialization and Commodity Market Serial Dependence” (with Ke Tang, Yubo Tao, and Liyan Yang)

“Uncovering the Hidden Effort Problem” (with Azi Ben-Rephael, Bruce Carlin, and Ryan D. Israelsen)

“The Information in Industry-Neutral Self-Financed Trades” (with Yashar Barardehi, and Mitch Warachka)

“Market Returns and a Tale of Two Types of Attention” (with Jian Hua, Chih-Ching Huang, and Lin Peng)

“Digesting FOREXS” (with Joon Woo Bae and Virgilio Zurita)

“Presidential Economic Approval Rating and the Cross-section of Stock Returns” (with Zilin Chen, Dashan Huang and Liyao Wang)

The Strategic Use of 13F Restatement by Hedge Funds” (with Sean Cao, Daniel Jiang, and Baozhong Yang)

“Growth Expectations, Dividend Yields, and Future Stock Returns” (with Ravi Jagannathan and Jianfeng Shen)

“Investor Optimism, Sales Fixation and Firm Lifecycle” (with Ravi Jagannathan and Jianfeng Shen)

“In Search of Fundamentals” (with Joey Engelberg and Pengjie Gao)

TEACHING CASES

“Convertible Bonds of Countrywide Financial Corporation” (with Ravi Jagannathan), Harvard Business School Case, Prod #KEL323-PDF-ENG

CONFERENCES PRESENTATIONS

(P=presentation, C=presented by coauthor, D=discussion)

- 2005 Financial Management Association Annual Meeting (P)
- 2006 Eastern Finance Association Annual Meeting (P, D2), Western Finance Association Annual Meeting (P), McGill University / IFM2, Risk Management Conference (C, D) China International Conference in Finance (C), NBER AP Meeting (C), NBER Market Microstructure Group Meeting (C)
- 2007 American Finance Association Meeting (P2), Western Finance Association Annual Meeting (D2), China International Conference in Finance (C), Financial Research Association Meeting (P)
- 2008 NBER AP Meeting (P), Western Finance Association Annual Meeting (C) China International Conference in Finance (C), Financial Management Association Annual Meeting (C2), Finance Association/Nippon Finance Association 2008 International Conference (C)
- 2009 American Finance Association Meeting (P), Midwest Finance Association Meeting (D2), Caesarea Center Sixth Annual Academic Conference in Israel (P), Fifth Annual Behavioral Science Conference at Yale University (C), NBER Market Microstructure meeting (C), FIRS 2009 Prague meetings (C), Western Finance Association Annual Meeting (P, D), 20th conference on Financial Economics and Accounting (P), Financial Research Association Meeting (C)

- 2010 American Finance Association Meeting (C2), The Jackson Hole Finance Conference (C), 2010 CARE Conference (C), NBER Behavioral Economics Meeting (C), Western Finance Association Annual Meeting (C), China International Conference in Finance (C2), European Summer Symposium on Financial Markets (P2), Financial Management Association Annual Meeting (C2)
- 2011 Driehaus Behavioral Finance Symposium at DePaul University (P), 2011 SFS Cavalcades Program at University of Michigan (C), FIRS 2011 Sydney meetings (C), China International Conference in Finance (P2, D), European Summer Symposium on Financial Markets (D), Financial Management Association Annual Meeting (C)
- 2012 American Finance Association Meeting (C), 3rd Behavioral Finance Conference at Queen's School of Business (P), European Finance Association Meeting (C), State of Indiana Finance Conference (D), 2012 Symposium at HKUST (P), Tel Aviv Finance Conference (D)
- 2013 American Finance Association Meeting (P,D), FSU SunTrust Beach Conference (C), 2013 SFS Cavalcades Program at University of Miami (D), FIRS 2013 Conference in Dubrovnik (C), Caesarea Center 10th Annual Conference, Israel (C), The Fifth Finance Conference at Pontificia Universidad Catholica De Chile (P), China International Conference in Finance (P, C, D2), Borsa Istanbul Finance & Economics Conference (P), 2nd Luxembourg Asset Management Summit (C)
- 2014 American Finance Association Meeting (C), Western Finance Association Annual Meeting (D), Research in Behavioral Finance Conference at Erasmus (P), Central Bank Workshop on Market Microstructure in Rome (C)
- 2015 Finance Down Under 2015 conference in Melbourne (C), Midwest Finance Association Meeting (D, P), ABFER 3rd Annual Conference in Singapore (D, C), The Seventh Finance Conference at PUC De Chile (C), China International Conference in Finance (P, C2, D2), Wabash River Finance Conference (C), WU Gutmann Center Symposium 2015 (C), European Finance Association Meeting (C2), Conference on Liquidity Risk in Asset Management in Toronto (C), 4th Luxembourg Asset Management Summit (P), UC-Davis Finance Symposium (C)
- 2016 American Finance Association Meeting (C2), 8th Annual Conference on Hedge Funds in Paris (C), The Jackson Hole Finance Conference (C), FSU SunTrust Beach Conference (C), University of Kentucky Finance Conference (C), SFS Cavalcades (P, C, D), ABFER 4th Annual Conference in Singapore (P, C, D), CEIBS Finance Conference in Shanghai (C), Western Finance Association Annual Meeting (P), China Financial Research Conference (C), China International Conference in Finance (P3, D) Helsinki Finance Summit (P, D), European Finance Association Meeting (C2), 5th Luxembourg Asset Management Summit (C), 27th conference on Financial Economics and Accounting (C)
- 2017 American Finance Association Meeting (C), Utah Winter Finance Meeting (C), Finance Down Under conference in Melbourne (C), Conference on News and Financial Markets at Columbia Business School (P), Conference on the Econometrics of Financial Markets at Stockholm Business School (P), 14th Annual Conference in Financial Economics Research by Eagle Labs, Arison School of Business, IDC (C), Western Finance Association Annual Meeting (D), China International Conference in Finance (D2, C), 2017 Summer Institute of Finance (SIF) Conference (C), Luxembourg Asset Management Summit (C), NBER Asset Pricing Meeting (C), RFS-Climate Finance Conference (D), SFS Cavalcade Asia Pacific (P), NBER Chinese Economy Working Group Meeting (P)
- 2018 American Finance Association Meeting (D2), The Jackson Hole Finance Conference (C), Financial Accounting and Reporting Section Meeting (C), ABFER 4th Annual Conference in Singapore (P), Annual Conference in Financial Economics Research by Eagle Labs, Arison School of Business, IDC (C), FIRS (P, C), Western Finance

- Association Annual Meeting (C), China International Forum on Finance and Policy (D), China International Conference in Finance (P2, C), China Financial Research Conference (D), SMU Summer research camp (D), Wabash River Finance Conference (D), Helsinki Finance Summit (C), European Finance Association Annual Meeting (C4), TAU Finance Conference (C)
- 2019 American Finance Association Meeting (C), The Jackson Hole Finance Conference (P), Utah Winter Finance Meeting (C), Midwest Finance Association Meeting (C), Front Range Finance Seminar (D), SFS Cavalcade (P), ABFER 5th Annual Conference in Singapore (C), Mitsui Finance Symposium: Asset Pricing (C), PKU-CCER Summer Institute (P), China International Conference in Finance (P), Summer Institute of Finance (C), 3rd JPMCC International Symposium (C), Helsinki Finance Summit (D), European Finance Association Meeting (D), OU Energy and Commodities Finance Research Conference (C)
- 2020 ASU Sonoran Winter Finance Conference (C), University of Kentucky Finance Conference (Cancelled), SFS Cavalcade (C), Midwest Finance Association Meeting (C), 4th SAFE Market Microstructure Conference (C), FMA (C), NFA (C2)
- 2021 American Finance Association Meeting (C2), FSU SunTrust Beach Conference (D), Eastern Finance Association Meeting (C), Third Quadrant Behavioral Finance Conference (P), the 2nd Shanghai Financial Forefront Symposium (P, D), China International Conference in Finance (P, D, C3), Wabash River Conference (D), Financial Research Association Meeting (D, scheduled)
- 2022 American Finance Association Meeting (D, scheduled)

OTHER PRESENTATIONS

- 2005 Lehman Brothers and a Chicago-based hedge fund
- 2006 University of Notre Dame (Jan and May), NYU Stern, UC-Irvine, UT-Austin, Columbia GSB, Washington University, Wharton, Vanguard, Vanderbilt University, Lehman Brothers, NY Fed, Arizona State University, Singapore Management University
- 2007 University of Notre Dame, Indiana University, UIUC, Michigan, Barclays Global Investors
- 2008 University of Notre Dame, University of Houston, UIC, Indiana University
- 2009 Macquarie Global Quant Conference in Singapore (invited speaker), Singapore Management University, Purdue University, Chicago Quantitative Alliance Annual Academic Competition, HEC Montreal, University of Notre Dame
- 2010 University of Michigan, City University London, University of Technology Sydney, University of New South Wales, University of Sydney, Australian National University, Fordham University, Norwegian School of Management (BI), Norwegian School of Economics and Business Administration (NHH), USC, Arizona State University, University of Wisconsin-Madison, University of Maryland, UIC, and several hedge funds
- 2011 Citigroup Global Quant Conference in Vienna (invited speaker), Florida State University, Purdue University (Engineering Department), University of Delaware, Queen's University
- 2012 Emory University, University of Notre Dame (Mar and Nov), Peking University, Hong Kong University, Chinese University of Hong Kong, Southwest University of Finance and Economics in China, Deutsche Bank Quant Conference in NYC (invited speaker), University of Toronto, CKGSB
- 2013 Mingshi Investment, Singapore Management University, National University of Singapore, Nanyang Technological University, UIUC, University of Cincinnati

- 2014 University of Notre Dame (May and Aug), Shanghai Advanced Institute of Finance, Erasmus University Rotterdam, Texas A&M, University of Miami
- 2015 UC-Irvine, University of Notre Dame, Georgia State University, CKGSB, Tsinghua PBC, Peking University, Southwest University of Finance and Economics in China, University of Hawaii
- 2016 University of Notre Dame, University of Arizona, University of Edinburgh, HEC Paris, SAIF, Villanova University, University of Georgia
- 2017 Cambridge University, LSE, LBS (Accounting), University of Notre Dame (London Gateway), Chinese University of Hong Kong, Peking University, SEC, UIC, Michigan State University, University of Houston, University of New South Wales, University of Melbourne, Monash University, Georgetown University, Case Western Reserve University, Aalto University, INSEAD
- 2018 SUNY Buffalo, Ohio State University, Renmin University, Vienna Graduate School of Finance, Georgia Tech, University of South Florida, SMU Cox, TCU, University of Miami
- 2019 Washington University in St. Louis, University of Hawaii, Rice University, Florida International University, Baylor University, University of Iowa, University of Notre Dame, UCLA, CUHK Shenzhen, Aalto University, Duke Econ, Lehigh University, HKUST, Tsinghua PBC
- 2020 UC Irvine, UC Riverside, Georgetown University, Indian Institute of Management (Zoom)
- 2021 Notre Dame, University of Alberta (Zoom), NTU (Zoom), George Washington University (Zoom), UNLV (Zoom), UT-Austin (Zoom), Dongbei University of Finance & Economics (Zoom), University of Maryland (scheduled), University of Wisconsin-Milwaukee (Zoom, scheduled), Sabanci University in Istanbul (scheduled), University of Washington (scheduled)
- 2022 LSU (scheduled), University of Oklahoma (scheduled), University of Kentucky (scheduled), Texas Tech (scheduled), UT-Dallas (scheduled), York University (scheduled), BI Oslo (scheduled)

OTHER ACTIVITIES

Ad-hoc Referee, Journal of Finance, Journal of Financial Economics, Review of Financial Studies, Journal of Financial and Quantitative Analysis, Management Science, Review of Finance, Review of Asset Pricing Studies, The Accounting Review, Journal of Accounting Research, Review of Accounting Studies, Economic Journal, Journal of Monetary Economics, Information Systems Research, and others

External Grant Reviewer, Hong Kong Research Grant Council, Israel Science Foundation, the Foundation for Science and Technology (FCT) in Portugal

Program Committee Member, 2008-now FMA Annual Meeting, 2011 FMA Asian Conference, 2011-2016 FIRS Conference, 2011-now WFA, 2012-now SFS Cavalcade, 2017-now SFS Asia Pacific Cavalcade, 2012-2013, 2016-now China International Conference in Finance (CICF), 2018 CICF award committee, 2013-now EFA, 2020 EFA track chair and member of Engelbert Dockner Prize Jury, 2014-2016 Napa Conference on Financial Markets Program Committee, 2016 / 2019 AIM Conference at UT-Austin, 2016 CFEA Conference, 2017-now University of Kentucky Finance Conference, 2017/2019 TAMU Young Scholars Finance Consortium, 2018-now Finance Down Under Conference, 2018-now FRA Annual Meeting, 2018 Georgia State FinTech Conference, 2019 Helsinki Finance Summit, 2019 Front Range Finance Conference, 2019- now The Future of Financial Information Conference, 2019 FIRN annual conference Australia

This version: 2021/10

Book Reviewer, MIT Press

External PhD dissertation committee member / examiner, Aymen Karoui (HEC Montreal), Zhuo Chen (Northwestern Kellogg), Jianing Zhang (SAIF), Qinhua Chen (SAIF), Yan Xiong (Toronto), Logan Emery (Purdue), Daniele Ballinari (St. Gallen), Chih-Ching Hung (Baruch), Chanik Jo (Toronto)

External renewal, tenure, and promotion letter writer for Cornell University, Chinese University of Hong Kong (x3), Chinese University of Hong Kong (Shenzhen), DePaul University, Erasmus School of Economic (x2), HEC Paris, HKUST, Monash University, Nanyang Technological University (x3), Peking University, Peking University HSBC Business School (PHBS), Shanghai Advance Institute of Finance, Singapore Management University, Texas A&M University, University of Arizona, University of Cincinnati, University of Connecticut, University of Florida (x2), University of Hong Kong, University of Illinois at Chicago, University of Kentucky, University of Melbourne, University of New South Wales, University of South Florida, University of Toronto, University of Washington, Villanova University

Member, academic advisory committee, Southwest University of Finance and Economics in China, 2017-now

Special-term visiting professor, Guanghua School of Management in Peking University, 2017-2018; Chinese University of Hong Kong, 2017, 2019; School of Finance in Renmin University, 2018-2020; The University of Hong Kong, 2018-2019; Shanghai Advance Institute of Finance, 2018-2020; Aalto University in Finland, 2019 & 2022

Fellow, Luohan Academy

Consultant, a few hedge funds in US and in China

Member, recruiting committee, Finance Department, University of Notre Dame, 2012-2016, 2019-2020

Member, Provost's Advisory Committee, University of Notre Dame, 2017-2020, advising the provost about academic matters, including especially the reappointment, promotion, and tenure of members of the tenured and tenure-track faculty

Member, Committee on Appeals, University of Notre Dame, 2020-2023, consider appeals from members of the teaching and research faculty who have been denied reappointment, promotion, or promotion to tenure

Fellow, Institute for Asia and Asian Studies, University of Notre Dame, 2013-now

Faculty Member, Interdisciplinary Center for Network Science & Applications (iCeNSA), University of Notre Dame, 2014-2019

Faculty Mentor, Building Bridges Mentoring Program, University of Notre Dame, 2012-2014, 2016-now, Greater China Scholar Program, University of Notre Dame, 2016-now

WORKING EXPERIENCE

1999 - 2000 Research Associate, NUS Center for Financial Engineering, Singapore
2000 - 2001 Associate, Interest rate and exotic derivative desk, DBS Bank, Singapore

HONORS AND AWARDS

2020 CIRF/CFRI – Global Association of Risk Professionals Research Award (with Yong Chen and Dayong Huang)
2019 Midwest Finance Association Outstanding Paper, (with Xing Huang and Lawrence Jin)
2018 William F. Sharpe Award for Scholarship in Financial Research, JFQA, (with Dayong Huang and Hayong Yun)
2018 CICF Best Paper Award (with Azi Ben-Rephael, Bruce Carlin, and Ryan D. Israelsen)
2017 SFS Cavalcade Asia-Pacific Best Paper in Asset Pricing (with Jiangze Bian, Dong Lou, and Hao Zhou)
2016 XY Investments Award for the best paper on financial markets at China International Conference in Finance (with Xing Huang)
2016 China Financial Research Conference Best Paper Award (with Jiangze Bian, Dong Lou, and Hao Zhou)
2015 Zych Family Fellowship at the Notre Dame Institute for Global Investing
2015 Distinguished referee, *Review of Financial Studies*
2013 Luksic research collaboration grant
2010 First Prize Winner, 2010 Crowell Memorial Prize Paper Competition (with Joey Engelberg and Pengjie Gao)
2009 First Prize Winner, Chicago Quantitative Alliance Academic Competition (with Joey Engelberg and Pengjie Gao)
2007 Morgan Stanley Equity Microstructure Research Grant (with Ernst Schaumburg)
2006 Moody's Credit Markets Research Fund (with Pengjie Gao)
2006 NYSE student travel grant for attending WFA
2005 Finalist, 2005 Lehman Brothers Fellowship for Research Excellence in Finance
2001-2006 Fellowship, Kellogg School of Management
2001 DBS Gold Medal and ABN AMRO Finance Prize for the best student in MSc in Financial Engineering program, National University of Singapore
1995 - 1999 Singapore's national merit-based undergraduate scholarship
1995 - 1999 Dean's list placements

PROFESSIONAL MEMBERSHIPS AND QUALIFICATIONS

2001 - present Chartered Financial Analyst (CFA)
2000 - present Global Association of Risk Professionals (GARP) Certified Financial Risk Manager
2005 - present Member, American Finance Association & Western Finance Association