# **Michael Ryan Roberts**

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Citizenship: U.S.

March 2025

## **EDUCATION**

#### **Degrees Attained**

Ph.D. in Economics, University of California, Berkeley, 2001M.A. in Statistics, University of California, Berkeley, 2001B.A. in Economics, University of California, San Diego, 1992

### ACADEMIC POSITIONS

### **Current Positions**

William H. Lawrence Professor, The Wharton School, University of Pennsylvania, 2013-Present Professor of Finance, The Wharton School, University of Pennsylvania, 2013-Present Associate Faculty, Institute for Law and Economics, University of Pennsylvania, 2010 – Present Research Associate, National Bureau of Economic Research, 2010 – Present Affiliated Faculty, Wharton Customer Analytics, 2021 – Present

## **Previous Positions**

Researcher, Wharton Financial Institutions Center, University of Pennsylvania, 2010 – 2018 Visiting Scholar, London Business School, March 2014 Professor, The Wharton School, University of Pennsylvania, 2012 – 2013 Visiting Scholar, Graduate School of Business, Stanford University, 2012 – 2013 Associate Professor (with tenure), The Wharton School, University of Pennsylvania, 2008 – 2012 Assistant Professor, The Wharton School, University of Pennsylvania, 2004 – 2008 Visiting Scholar, University of Vienna, Spring 2007 Assistant Professor, Fuqua School of Business, Duke University, 2001 – 2004 Lecturer, Department of Statistics, University of California at Berkeley, 1999 – 2001 Teaching Assistant, Department of Economics, University of California at Berkeley, 1996 – 1998 Research Assistant, National Bureau of Economic Research, 1996 – 1997 Teaching Assistant, Department of Economics, University of California at San Diego, 1992

### **RESEARCH** (Authors in Alphabetical Order)

### **Refereed Publications:**

Cordell, Larry, Michael R. Roberts and Michael Schwert, 2022, CLO Performance, *Journal of Finance* 78, 1235-1278.

- Lead Article
- The Institute for Quantitative Research in Finance (Q-Group), Jack Treynor Prize, 2021

Linnainmaa, Juhani and Michael R. Roberts, 2018, The History of the Cross Section of Stock Returns, *Review of Financial Studies* 31, 2606-2649.

• Geewax, Terker, and Co. Prize for Best Working Paper published by Rodney L. White Center, 2016

Bradley, Michael and Michael R. Roberts, 2015, The Structure and Pricing of Bond Covenants, Quarterly Journal of Finance 5, 1-37.

• Formerly entitled: "Are Bond Covenants Priced?"

Leary, Mark T., John R. Graham and Michael R. Roberts, 2015, A Century of Corporate Capital Structure: The leverage of Corporate America? *Journal of Financial Economics* 118, 658-683.

- Winner of the Jensen Prize for Best Paper in Corporate Finance and Organizations published in the *Journal of Financial Economics*, 2015
- Posted on Harvard Law School Forum on Corporate Governance and Financial Regulation, April 28 2015.
- Posted on VOX, May 6, 2014.

Roberts, Michael R., 2015, The Role of Dynamic Renegotiation and Asymmetric Information in Financial Contracting, *Journal of Financial Economics* 116, 61-81.

• Posted on Harvard Law School Forum on Corporate Governance and Financial Regulation, January 19, 2011.

Leary, Mark T. and Michael R. Roberts, 2014, Do Peer Firms Affect Corporate Capital Structure? *Journal of Finance* 69, 139-178.

• Geewax, Terker, and Co. Prize for Best Working Paper published by Rodney L. White Center, 2010

Michaely, Roni and Michael R. Roberts, 2012, Corporate Dividend Policies: Lessons from Private Firms, *Review of Financial Studies* 25, 711-746.

Leary, Mark T. and Michael R. Roberts, 2010, The Pecking Order, Debt Capacity, and Information Asymmetry, *Journal of Financial Economics* 95, 332-355.

Lemmon, Michael and Michael R. Roberts, 2010, The Response of Corporate Financing and Investment to Changes in the Supply of Credit, *Journal of Financial and Quantitative Analysis* 45, 555-587.

Lead Article

Roberts, Michael R. and Amir Sufi, 2009, Renegotiation of Financial Contracts: Evidence from Private Credit Agreements, *Journal of Financial Economics* 93, 159-184.

- Lead Article
- Formerly entitled: "Contingency and Renegotiation of Financial Contracts: Evidence from Private Credit Agreements"

Roberts, Michael R. and Amir Sufi, 2009, Control Rights and Capital Structure: An Empirical Investigation, *Journal of Finance* 64, 1657-1695.

• Geewax, Terker, and Co. Prize for Best Working Paper published by Rodney L. White Center, 2006

Brav, Alon, Roni Michaely, Michael R. Roberts, and Rebecca Zarutskie, 2009, Evidence on the Tradeoff between Risk and Return for IPO and SEO Firms, *Financial Management* Summer, 221-252.

• Lead article

Chava, Sudheer and Michael R. Roberts, 2008, How does Financing Impact Investment? The Role of Debt Covenants, *Journal of Finance* 63, 2085-2121.

- Lead article
- Nominated for the Brattle Prize in the *Journal of Finance*, 2008
- formerly entitled: "Is Financial Contracting Costly? An Empirical Analysis of Debt Covenants and Corporate Investment"

Lemmon, Michael L., Michael R. Roberts, and Jaime F. Zender, 2008, Back to the Beginning: Persistence and the Cross-Section of Corporate Capital Structure, *Journal of Finance* 63, 1-37.

- Lead article
- Winner of the Brattle Prize for Distinguished Paper in the Journal of Finance, 2008

Boudoukh, Jacob, Roni Michaely, Matthew Richardson, and Michael R. Roberts, 2007, On the Importance of Measuring Payout Yield: Implications for Empirical Asset Pricing, *Journal of Finance* 62, 877-915.

Leary, Mark T. and Michael R. Roberts, 2005, Do Firms Rebalance Their Capital Structures?, *Journal of Finance* 60, 2575-2619.

- Lead article
- Winner of the Brattle Prize for Distinguished Paper in the *Journal of Finance*, 2006
- Best Paper in Corporate Finance, Financial Management Association, 2004
- Best Paper in Corporate Finance, Southwestern Finance Association, 2004

Knittel, Christopher R. and Michael R. Roberts, 2005, An Empirical Examination of Restructured Electricity Prices, *Energy Economics* 27, 791-817.

Graham, John R., Roni Michaely, and Michael R. Roberts, 2003, Do Price Discreteness and Transactions Costs Affect Stock Returns? Comparing Ex-Dividend Pricing Before and After Decimalization, *Journal of Finance* 58, 2611-2635.

• Western Finance Association, most votes for NYSE Best Paper in Asset Pricing, 2003

## **Books:**

Roberts, Michael R., 2024, Financial Decision Making: An Applications Based Approach (in progress)

## **Book Chapters:**

Roberts, Michael R. and Toni Whited, 2013, Endogeneity in Empirical Corporate Finance, *Handbook* of the Economics of Finance vol. 2., ed. George Constantinides, Rene Stulz, and Milton Harris, Elsevier, Amsterdam

Roberts, Michael R. and Amir Sufi, 2009, Financial Contracting: A Survey of Empirical Research and Future Directions, *Annual Reviews of Financial Economics* vol. 1, ed. Andrew W. Lo and Robert C. Merton, Annual Reviews, Danvers, MA.

Hurd, Michael D., Daniel McFadden, Harish Chan, Li Gan, Angela Merrill, and Michael R. Roberts, 1998, Consumption and Savings Balances of the Elderly: Experimental Evidence on Survey Response Bias, *Frontiers in the Economics of Aging*, ed. David Wise, National Bureau of Economic Research, Cambridge, MA

## **Opinion Pieces for Knowledge @ Wharton:**

Roberts, Michael R., May 2024, Should I Pay Off My Mortgage Early in this Economy?

Roberts, Michael R., June 2023, Does Generative AI Solve the Financial Literacy Problem?

Roberts, Michael R., March 2023, Making Sense of Stock Buybacks

Roberts, Michael R., October 2021, Why Finance Should Be Mandatory for High School Students (and Their Parents)

Roberts, Michael R., April 2021, Shopping for a Mortgage? Consider the Trade-offs

Roberts, Michael R., March 2021, Think Twice Before Paying Off Your Mortgage Early

Roberts, Michael R. and Michael Schwert, August 2020, Why Collateralized Loan Obligations Will Not Cause the Next Financial Crisis

## Working Papers:

van Binsbergen, Jules, Alejandro Lopez-Lira, Michael R. Roberts, 2022, Comps

Roberts, Michael R. and Michael Schwert, 2020, Interest Rates and the Design of Financial Contracts

Graham, John R., Mark R. Leary, and Michael R. Roberts, 2013, How Does Government Borrowing Affect Corporate Financial and Investment Policies?

• First Prize, The Marshall Blume Prize in Financial Research, 2015.

## HONORS AND GRANTS

## **Research Awards**

The Institute for Quantitative Research in Finance (Q-Group), Jack Treynor Prize, 2021 Marshall E. Blume Prize, 2014, 2017, 2021 Rising Stars of Finance Award, 2012 Financial Research Association Best Discussant Award, 2012
Geewax, Terker, and Co. Prize for Best Paper published by Rodney L. White Center, 2010, 2016
Brattle Prize Nominee for Best Paper in the *Journal of Finance*, 2008
Brattle Prize for Distinguished Paper in the *Journal of Finance*, 2006, 2008
Geewax, Terker, and Co. Prize for Distinguished Paper published by Rodney L. White Center, 2006
Outstanding Referee Award, *Review of Financial Studies*, 2005
Financial Management Association, Best Paper in Corporate Finance, 2004
Southwestern Finance Association, Best Paper in Corporate Finance, 2004
Western Finance Association, most votes for NYSE Award for best paper on equity trading, 2003
Elizabeth Schott Award for Excellence in Statistical Research, Univ. of California, Berkeley, 2000

## **Teaching Awards**

- Helen Kardon Moss Anvil Teaching Award Nominee, The Wharton School, University of Pennsylvania, 2012, 2015
- Core Curriculum Teaching Award, The Wharton School, University of Pennsylvania, 2015, 2018.
- Greek Executive Council Honorable Recognition, The Wharton School, University of Pennsylvania, 2006, 2007
- David W. Hauk Award for Outstanding Teaching, The Wharton School, University of Pennsylvania, 2006
- Teaching Excellence Award, The Wharton School, University of Pennsylvania, 2004, 2006, 2008, 2018, 2021, 2022, 2023, 2024 (MBA and Undergrad)

Daimler-Chrysler Core Teaching Award, Fuqua School of Business, Duke University, 2004

Outstanding Graduate Student Instructor, University of California, Berkeley, 1998

Departmental Honors, University of California, San Diego, Department of Economics, 1992

## **Grants and Fellowships**

Wharton Analytics grant, 2020, 2021

Greener Family Fellowship, The Wharton School, University of Pennsylvania, 2013

- Jacobs Levy Equity Management Center for Quantitative Financial Research, The Wharton School, University of Pennsylvania, 2013, 2019
- Aronson, Johnson, and Ortiz Research Fellowship, The Wharton School, University of Pennsylvania 2007
- NYSE Fellowship, The Wharton School, University of Pennsylvania, 2005

Rodney L. White Center Grant, The Wharton School, University of Pennsylvania, 2004, 2005, 2007, 2009, 2018, 2020

CIBER International Research Grant, Fuqua School of Business, Duke University, 2002, 2003

Hartman Center Grant, Fuqua School of Business, Duke University, 2003

U.C. Regents Fellowship, University of California, Berkeley, 2000

## **EDITORIAL BOARDS**

Co-Editor, Journal of Finance, 2012 – 2016

Co-Editor, *Review of Corporate Finance Studies*, 2010 – 2012 Associate Editor, *Journal of Finance*, 2009 – 2012 Associate Editor, *Review of Financial Studies*, 2009 – 2012 Associate Editor, *Management Science*, 2009 – 2010 Associate Editor, *Journal of Financial and Quantitative Analysis*, 2006 – 2010 Associate Editor, *Financial Research Letters*, 2007 – 2012 Associate Editor, *International Review of Finance*, 2008 – 2012 Associate Editor, *North American Journal of Economics and Finance*, 2010 – Present

## **TEACHING EXPERIENCE**

### University of Pennsylvania, The Wharton School

#### **Doctoral Courses**

Empirical Methods in Corporate Finance

#### **MBA** Courses

Corporate Finance (Core Finance Course) Corporate Valuation (Elective on corporate valuation and financial policy) Data Science for Finance

#### Undergraduate Courses

Corporate Finance (Core Finance Course) Data Science for Finance

### MOOC

Introduction to Corporate Finance (available on Coursera) Financial Analytics

#### Wharton Global Youth Program (WGYP)

Essentials of Finance (Design and academic oversight)

#### Wharton Academy

Corporate Valuation (Design, teach, and academic oversight) Personal Finance (Design and academic oversight)

#### **Executive Education**

Financial Statement Analysis Essentials of Finance Corporate Capital Structure Corporate Valuation Financial Statement Analysis Fixed Income and Credit Markets Creating Shareholder Value Valuing Strategic Decisions Integrating Finance and Strategy Fixed Income Finance and Negotiation Real Options The SaaS Business Model Growth Equity and SaaS Businesses Strategic Financial Policy Wharton Finance for Executives Custom courses for numerous private and public entities

## Duke University, The Fuqua School of Business

*MBA Courses* Global Financial Management (Asset pricing and corporate finance for MBAs)

## University of California, Berkeley, Department of Statistics

Undergraduate Courses Introductory Probability and Statistics Statistical Inference for Social Sciences Probability and Statistics for Business

## University of California, Berkeley, Department of Economics

Doctoral Courses Econometrics Mathematics for Economists

## University of California, San Diego, Department of Economics

Undergraduate Courses Macroeconomics

## **OTHER ACADEMIC EXPERIENCE**

## **Conference/Program Organizer or Committee Member**

American Finance Association, Editor Search Committee, 2021 American Finance Association, Fischer Black Prize Committee, 2014 American Finance Association, Executive Committee, 2012 – 2016 American Finance Association, Nominating Committee, 2009, 2023 American Finance Association, Session Chair, 2007, 2009, 2011, 2018, 2019, 2020 Financial Intermediation Research Society (FIRS), 2009 – Present Financial Management Association, 2004 - Present European Financial Association, 2018 Frontiers of Finance Conference, 2008 IDC Caesarea Center Conference, 2005 - Present Midwest Finance Association, 2020 National Bureau of Economic Research, Spring Corporate Finance Meeting, 2022 New York Fed/NYU Stern Conference on Financial Intermediation, 2007 Paris Corporate Finance Conference, 2010 – 2014 Penn/NYU Law and Finance Conference, 2010 – 2012 (Co-organizer) Red Rock Finance Conference, 2021 - Present Society for Financial Studies Cavalcade, 2020 - Present TAU Finance Conference, 2010 – 2018 Utah Winter Finance Conference, 2005 – Present Washington University, Olin Business School, Corporate Finance Conference, 2008 – 2012 Western Finance Association, 2005 - Present

## University Service - University of Pennsylvania

Wharton Finance Department Curriculum Committee, 2022 - Present Wharton Finance Micro Seminar Co-coordinator, 2022 – 2023 Wharton Faculty Fellows, 2022 Wharton Global Youth Program, Academic Director, Essentials of Finance, 2022 - Present Wharton Senior Faculty Recruiting Committee, 2019 – 2021 Wharton Research Data Services (WRDS), Advisory Board Member, 2005 - Present Wharton Executive Education Advisory Committee, 2017 - Present Wharton Executive Education Advisory Committee, Chairman, 2022 - Present Personnel Committee, The Wharton School, 2020 – 2022 Wharton Analytics Advisory Board, 2020 - Present Dean's Search Committee, The Wharton School, 2019 Wharton Teaching Excellence Committee, 2018 – 2019 Wharton Management & Technology Freshman Seminar, 2018 - 2022, 2024 Wharton Dean's Advisory Committee, 2017-2018 Rodney L. White Center Faculty Advisory Board, 2017 - 2018 UPENN Faculty Grievance Commission, 2017 – 2018 Chair, Wharton Marketing Department Quintennial Review, 2017 - 2018 Co-Coordinator Junior Recruiting, 2017 Wharton MBA Executive Committee, 2013 – 2014, Wharton Research Scholars Advisor, 2011 Co-Organizer Finance Seminar Series, 2009 – 2010 Co-Organizer Law and Finance Seminar Series, 2009 – 2012 Dean's Advisory Committee member, 2009 – 2010 Dean's Search Committee member (The Wharton School), 2019 Co-Chair Finance Faculty Recruiting (The Wharton School), 2010, 2011 Finance Faculty Recruiting Committee (The Wharton School), 2005 – 2011 Wharton Research Data Services (WRDS) Users group (The Wharton School), Speaker, 2007 Joseph Wharton Scholars Research Seminar (The Wharton School), Speaker, 2007 Vice Dean's Lunch (The Wharton School), Speaker, 2007 David W. Hauk Award (The Wharton School), Committee Member, 2007 - 2009 Wharton Parents Weekend (The Wharton School), Speaker, 2006 Undergraduate Commencement (The Wharton School), Speaker, 2005

## **University Service – Duke University**

Blue Devil Weekend (Fuqua School of Business), Speaker, 2003 Duke Finance Group Working Paper Series Coordinator (Fuqua School of Business), 2002 – 2004 Duke Finance Web Site Coordinator (Fuqua School of Business), 2002 – 2004 Judicial Committee (Fuqua School of Business), 2002, 2003 Finance PhD Admissions Committee (Fuqua School of Business), 2002 – 2004 Finance Faculty Recruiting (Fuqua School of Business), 2002 – 2004 Finance, Accounting and Economics Brown Bag Coordinator (Fuqua School of Business), 2001 – 2004

## **Selected Referee Work**

Accounting Review; American Economic Review; The American Statistician; Energy Journal; Financial Management; Financial Research Letters; Journal of Accounting Research; Journal of

Banking and Finance; Journal of Business; Journal of Empirical Finance; Journal of Finance; Journal of Financial Economics; Journal of Financial Intermediation; Journal of Financial and Quantitative Analysis; Journal of Law, Economics, and Organization; Journal of Money, Credit and Banking; Management Science; Quantitative Finance; Review of Economic Studies, Review of Finance; Review of Financial Studies

### **Ph.D. Students and First Placement**

Mark T. Leary, Cornell University (Finance), 2006 Sarah Zechman, University of Chicago (Accounting), 2008 Boris Nikolov, University of Rochester (Finance), 2009 Andrew Mackinlay, Southern Methodist University (Finance), 2012 Cindy Soo, University of Michigan (Finance), 2013 William Mann, UCLA (Finance), 2014 Jillian Popadak, Duke University (Finance), 2014 Ian Appel, Boston College (Finance), 2015 Eric Moore, NERA, 2017 Jessica Jeffers, University of Chicago (Finance), 2017 Anna Cororaton, Southern Methodist University (Finance), 2018 Stefano Pietrosanti, Bank of Italy, 2020 Aymeric Belon, University of North Carolina, Chapel Hill (Finance), 2022

### **INVITED PRESENTATIONS**

#### **Conference Presentations**

American Finance Association, 2007, 2008, 2017, 2020 American Economic Association, 2011\*, 2013\* Arizona State Sonoran Winter Finance Conference, 2013 Association Francaise de Finance Conference, 2003 Center for Economic and Legal Studies Conference, 2012 Duke/UNC Corporate Finance Conference, 2006 Eastern Finance Association, 2005\* Econometric Society North American Meeting, 2004 European Finance Association, 2021 Financial Economics and Accounting Conference, 2003, 2007\*, 2010 Financial Management Association, 2004, 2006, 2010, 2017 Financial Research Association, 2007\* **HKUST Finance Symposium**, 2005 Household Finance Conference, University of Chicago, 2022 IDC, Caesarea Center Conference on Finance, 2006 Jacobs-Levy Center Fall Conference, 2017 Midwest Finance Association, 2004\* Minnesota Corporate Finance Conference, 2010 NBER Behavioral Economics Group, Fall Conference, 2017 NBER Capital Structure Conference, 2013 NBER Corporate Finance, Fall Conference, 2006, 2009\* NBER Corporate Finance, Summer Institute, 2006\*, 2010\* NBER Capital Markets, Summer Institute, 2013 NBER Risk and Financial Institutions, Summer Institute, 2021\*

New York Fed/Princeton University Liquidity Conference, 2007 New York Fed/NYU Stern Salomon Center Conference on Financial Intermediation, 2006, 2007 NYU-Stern Five Star Conference on Research in Finance, 2005 Olin Corporate Finance Conference, 2006, 2007\*, 2008, 2019 Penn/NYU Law and Finance Conference, 2006 Rising Stars of Finance, 2012 Society for Financial Studies Cavalcade, 2016\*, 2021\* Southwestern Finance Association Meeting, 2004 Stanford Institute for Theoretical Economics (Dynamic Financing and Investment), 2007 Stanford Institute for Theoretical Economics (Empirical Corporate Finance), 2011 Texas Finance Festival, 2004, 2007\* Tuck Corporate Finance Conference, 2004 Western Finance Association, 2004, 2006 - 2008, 2010\*, 2015\*, 2016\*, 2021\* University of Washington Finance Conference, 2012 University of Kentucky Finance Conference, 2020 **UBC Summer Finance Conference**, 2005 Utah Winter Finance Conference, 2004, 2008

\*-Paper presented by co-author.

### **Academic Seminars**

Aalborg University, 2021 Arizona State University, 2014 Babson College, 2005 Baruch College, 2007 Blue Metric Investment Advisors, 2021 Boston College (Carroll School of Business), 2006, 2013 Boston University (School of Management), 2001, 2010 Carnegie Mellon (Tepper School of Business), 2009, 2017 Columbia University (Business School), 2012, 2016 Columbia University (Law and Finance), 2014 Cornell University (Johnson School of Business), 2005, 2008, 2013 Corporate Finance Virtual Seminar Series, 2020 The Citadel Group, 2006 Dartmouth University (Tuck School of Business), 2008, 2014, 2024 Delaware University, 2014 Drexel University (LeBow School of Business), 2015 Duke University (Economics Department), 2002 Duke University (Fuqua School of Business), 2001, 2015 Emory University (Goizueta School of Business), 2008 Erasmus University, 2018 Federal Reserve Bank of New York, 2001, 2008, 2009, 2017 Federal Reserve Board. Georgia State University, 2017 Georgie Tech University, 2018 Harvard University (Business School), 2004 Harvard University (Economics Department), 2006 HEC Lausanne, 2008

HEC Paris, 2009 IDC of Herzilya, 2003, 2022 Indiana University (Kelley School of Business), 2008 **INSEAD**, 2009 London Business School, 2007, 2014 London School of Economics (Financial Management Group), 2007, 2014 Louisiana State University (Ourso College of Business), 2008 Maastricht University, 2018 Michigan State University (Eli Broad College of Business), 2011 MIT (Sloan School of Management), 2006, 2013 New York University (Stern School of Business), 2009, 2013 Northwestern University (Kellogg), 2006, 2009, 2017 Notre Dame University (Mendoza College of Business), 2010 Ohio State University (Fisher School of Business), 2007 Pennsylvania State University (Smeal School of Business), 2009 Purdue University (Krannert School of Business), 2009 Rice University (Jones School of Management), 2006, 2014 Rutgers University, 2007, 2020 Southern Methodist University, 2014 Stanford University (Graduate School of Business), 2001, 2004, 2012 Southern Methodist University (Cox School of Business), 2014 SNS/Swedish House of Finance, 2020 Stockholm School of Economics, 2005, 2022 Texas A&M (Mays School of Business), 2007 Tilburg University, 2018 Tulane University (A.B. Freeman School of Business), 2017 University of Arizona (Eller College of Business Administration), 2006 University of British Columbia (Sauder School of Business), 2001, 2012 University of California at Berkeley (Department of Economics), 2001 University of California at Berkeley (Haas School of Business), 2001, 2004, 2007, 2012 University of California at Irvine (Department of Economics), University of California, San Diego (Rady School of Business), 2012 University of California at Santa Barbara (Department of Economics), 2001 University of Colorado (Leeds School of Business), 2007 University of Chicago (Graduate School of Business, Finance), 2006, 2013 University of Chicago (Graduate School of Business, Accounting), 2013 University of Delaware (Lerner College of Business and Economics), 2014 University of Florida (Warrington College of Business), 2007 University of Houston (Bauer School of Business), 2004 University of Illinois at Urbana-Champaign (College of Business), 2008 University of Kentucky (Gatton School of Business), 2009 University of Maryland (Robert H. Smith School of Business), 2005, 2009, 2023 University of Michigan (Ross School of Business), 2007 University of Minnesota (Carlson School of Management), 2014 University of North Carolina (Kenan-Flagler School of Business), University of Pennsylvania (The Wharton School, Finance), 2004 University of Pennsylvania (The Wharton School, Applied Economics), 2007 University of Rochester (Simon GSB), 2007, 2019 University of South Carolina (Moore School of Business), 2015

University of Southern California (Marshall School of Business), 2007, 2013, 2019 University of Texas at Austin (McCombs School of Business), 2001, 2010 University of Utah (Eccles School of Business), 2005, 2012 University of Virginia (Darden School of Business), 2013 University of Vienna, 2005, 2007, 2018 University of Washington (Foster School of Business), 2015 University of Waterloo, 2007 University of Waterloo, 2007 University of Wisconsin-Madison (School of Business), 2006 Vanderbilt University (Owen Graduate School of Management), 2012 Yale University (School of Management), 2006

## Discussions

American Finance Association, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2021 Drexel Corporate Governance Conference, 2016 Financial Management Association, 2004, 2006 Financial Research Association, 2012 Caesarea Center for Capital Markets and Risk Management, Arison School of Business, IDC, 2007 Midwest Finance Association, 2021 Mitsui Life Symposium, University of Michigan, 2007, 2009 NBER Capital Markets Group (Summer Institute), 2006 NBER Corporate Finance Group (Summer Institute), 2007, 2009, 2011, 2013, 2023 NBER Corporate Finance Group (Spring Meeting), 2009, 2016 NBER Microstructure Group (Fall Meeting), 2007 NBER Securitization Conference, 2009 NYU-New York Federal Reserve Financial Intermediation Conference, 2018 NYU 5-Star Conference, 2010, 2011 Penn ILE Corporate Roundtable, 2007 Penn/NYU Law and Finance Conference, 2020 **Texas Finance Festival**, 2009 Utah Red Rock Conference, 2020 Utah Winter Finance Conference, 2005, 2013 Western Finance Association, 2004 – 2007 Yale Conference on the Financial Crisis, 2009

## **Panel Discussions**

American Finance Association, PhD Forum, 2017 Association of Financial Professionals, Capital Structure, 2016 Financial Management Association, Doctoral Student Panel, 2006 Finance Theory Group, Panel on the Future of Finance Theory, 2022 International Organization of Securities Commissions (IOSCO), 2022 SNS/Swedish House of Finance, 2020

# NON-ACADEMIC EXPERIENCE (AND DISCLOSURE OF EXTERNAL ACTIVITIES)

Occasional paid speeches, discussions, and teaching engagements with practitioners Speaker, Blue Metric, 2021 Speaker, Microsoft, 2021 Speaker at CEO Summit, 2019, 2020 Consultant, PepsiCo, 2020 Consultant, Analysis Group, 2017 Panelist, Association of Finance Professionals, 2017 Consultant, Deloitte Services LLP, 2011 Expert Witness, San Antonio Fire & Police Pension Fund v. Amylin Pharmaceuticals, Inc., 2009 Financial Engineer, Financial Engineering Associates, Berkeley, CA (Summers: 1998, 1999) Senior Analyst, Cedars-Sinai Health System, Los Angeles, CA (Jan 1996 – Aug 1996) Senior Analyst, Regional Economic Research Inc., San Diego, CA (Jan 1994 – Jan 1995) Programmer, Regional Economic Research Inc., San Diego, CA (Jan 1993– Dec 1993)