

**ROBERT F. ENGLE**

New York University • Volatility and Risk Institute • 44 West Fourth Street, Suite 9-62  
 New York, NY 10012-1126 • 212-998-0710, Asst: -0702 • Fax: 212-995-4220  
[rengle@stern.nyu.edu](mailto:rengle@stern.nyu.edu) • <http://www.stern.nyu.edu/rengle/>

**BIOGRAPHY**

Robert Engle, the Michael Armellino Professor of Finance at [New York University Stern School of Business](#), was awarded the 2003 Nobel Prize in Economics for his research on the concept of autoregressive conditional heteroskedasticity (ARCH). He developed this method for statistical modeling of time-varying volatility and demonstrated that these techniques accurately capture the properties of many time series. Professor Engle shared the prize with Clive W. J. Granger of the University of California at San Diego.

Professor Engle is an expert in time series analysis with a long-standing interest in the analysis of financial markets. His ARCH model and its generalizations have become indispensable tools not only for researchers, but also for analysts of financial markets, who use them in asset pricing and in evaluating portfolio risk. His research has also produced such innovative statistical methods as cointegration, common features, autoregressive conditional duration (ACD), CAViaR and now dynamic conditional correlation (DCC) models.

He is currently the Co-Director of the [NYU Stern Volatility and Risk Institute](#) and is the Co-Founding President of the [Society for Financial Econometrics \(SoFiE\)](#), a global non-profit organization housed at NYU. Before joining NYU Stern in 2000, Professor Engle was Chancellor's Associates Professor and Economics Department Chair at the University of California, San Diego, and Associate Professor of Economics at the Massachusetts Institute of Technology.

He received his bachelor of science in physics from Williams College and his master of science in physics and doctor of philosophy in economics from Cornell University. Born in Syracuse, NY, he grew up in Media, Pennsylvania, spent 25 years in San Diego, and now lives in New York.

**ACADEMIC EXPERIENCE**

[NEW YORK UNIVERSITY STERN SCHOOL OF BUSINESS](#), New York, NY

**Professor Emeritus of Finance**, 2021-present

**Michael Armellino Professor in the Management of Financial Services**, 2000-2021

**Professor, Department of Finance**, 1999

[WHARTON FINANCIAL INSTITUTIONS CENTER](#), Philadelphia, PA

**Fellow**, 2009-2010 Academic Year

[UNIVERSITY OF CALIFORNIA](#), San Diego, CA

**Emeritus Professor and Distinguished Research Professor**, 2003

**Chair**, 1990-1994

**Chancellors' Associates Chair in Economics**, 1993-

**Professor**, 1977

**Associate Professor, 1975-1977**

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA**

**Associate Professor, 1975**

**Assistant Professor, 1969-1974**

## **HONORS AND AWARDS**

- Honorary Doctorate, Nicolaus Copernicus University, 2018
- Honorary Doctorate, University of Johannesburg, 2018
- Honorary Doctorate, Hong Kong Polytechnic University, 2017
- Honorary Doctorate, Airlangga University, 2017
- Honorary Doctorate, Naresuan University, 2017
- Oskar-Morgenstern Medal Award, University of Vienna, 2015
- T.C. Liu Visiting Scholar position of the Becker Friedman Institute at the University of Chicago, 2013
- Member, U.S. Department of the Treasury, Office of Financial Research Advisory Committee, 2012
- Distinguished Visiting Scholar, Georgetown University McDonough School of Business, 2012
- Member, International Advisory Panel, Risk Management Institute (RMI), 2012
- Financial Engineer of the Year Award, IAFE/SunGard , 2011
- Distinguished Alumni Award, Department of Statistical Science, Cornell University, 2011
- Distinguished Visiting Scholar, UNC Chapel Hill Kenan-Flagler Business School, 2010
- Fellow, FMA (Financial Management Association International)
- Recognition Award for Distinguished Service, The American Real Estate and Urban Economics Association
- Member, Joint CFTC-SEC Advisory Committee on Emerging Regulatory Issues to investigate the “Flash Crash”, 2010
- Hofstra University’s Presidential Medal, 2009
- Honorary Doctorate, Williams College, 2007
- Member, World Economic Forum, 2007
- Member, National Academy of Sciences, Finance Committee, 2006
- Fellow of the Institute for Quantitative Research in Finance, 2006
- Academia Europensis Scientarum Atrium Litterarumque, European Arts and Sciences Membership, 2005
- Doctorate Honoris Causis, HEC, Paris, France, 2005
- Doctorate Honoris Causis, Université de Savoie, France, 2005
- Nobel Prize for Economics, 2003
- Doctorate Honoris Causis, University of Southern Switzerland, 2003
- Fellow, American Finance Association, 2004
- Fellow, American Academy of Arts and Sciences, 1995
- Fellow, American Statistical Association, 2000
- Fellow, the Econometric Society, 1981

## EDUCATION

[CORNELL UNIVERSITY](#), Ithaca, NY

**Ph.D. in Economics**, 1969

**M.S. in Physics**, 1966

[WILLIAMS COLLEGE](#), Williamstown, MA

**B.S. in Physics**, with Highest Honors, 1964

## BUSINESS AFFILIATIONS

**Co-Director of the [Volatility and Risk Institute](#)**, New York University (2009-Present)

- The center runs a seminar series, [Quantitative Finance and Econometrics](#) (QFE), a public web site and venue for visitors, post-docs and research fellows, and [Vlab](#), which calculates volatilities and correlations every day on a wide range of assets using various methods. It produces volatility forecasts up to a year in advance.

**Co-Founding President, [Society for Financial Econometrics \(SoFiE\)](#)**, New York University (2007-Present)

- The Society for Financial Econometrics (SoFiE) is a global network of academics and practitioners dedicated to the fast-growing field of financial econometrics. SoFiE is committed to promoting and expanding research and education by organizing annual [conferences](#) and sponsoring programs and activities in the intersection of finance and econometrics.

**Principle, Robert F. Engle, Econometric Services**, 8 Frederick St., Mahopac, NY 10541  
845-208-2028, [englearn@netscape.net](mailto:englearn@netscape.net)

- A personal consulting company specializing in the application of econometric methods to financial and other business needs. Current work focuses on liquidity and trading in financial markets, risk measurement and management, derivatives pricing and hedging and a variety of volatility and correlation related research tasks. Presents many lectures every year to financial practitioners around the world on topics of current interest.

**Faculty Research Associate, [National Bureau of Economic Research \(NBER\)](#)** (1987-Present)

- Founded in 1920, the National Bureau of Economic Research is a private, nonprofit, nonpartisan research organization dedicated to promoting a greater understanding of how the economy works. The NBER is committed to undertaking and disseminating unbiased economic research among public policymakers, business professionals, and the academic community.

**Minor Partner, [AlphaCrest Capital Management](#)** (2013-present)

- AlphaCrest is a cutting edge quantitative hedge fund.

**Academic Affiliate, [Compass Lexecon](#)** (2010-Present)

- Compass Lexecon was formed in January 2008 through the combination of Competition Policy Associates (COMPASS) and Lexecon, two of the premier economic consulting firms in the world. For the past nine years, Compass Lexecon has been ranked as one of the leading antitrust economics firms in the world by the Global Competition Review.

**Quantitative Finance Expert, Quinn Emanuel Urquhart & Sullivan, LLP, (2014-2017)**

- Quinn Emanuel is the largest law firm in the world devoted solely to business litigation and arbitration.

**Quantitative Finance Expert, Jones Day, (2016-2017)**

- Ranked among the world's most integrated law firms and best in client service, Jones Day has locations in centers of business and finance throughout the world.

**Expert, Analysis Group**

- Analysis Group provides economic, financial and strategy consulting to law firms, corporations & government agencies.

**Expert, Industrial Economics, Inc, (2014-2016)**

- Industrial Economics, Incorporated is a consulting firm that provides expert analysis to clients in government, business, and not-for-profit organizations.

**Chairman of the Academic Advisory Board, Morgan Stanley Equity Microstructure Grants (2004-2008)**

- This board administers an academic grant program giving approximately 10 grants per year to faculty and students studying market microstructure. The winning grants are invited to present their work at a conference in the following year that is run by the AAB.

**Principle, VoLaRia, (2013-2017)**

- A financial consulting company with expertise in statistical models of financial data.

## **HONORARY LECTURES**

- Keynote, "Have Capital Markets Forgotten Sustainability?" Chinese Academy of Sciences, Virtual China, July 19, 2023
- Keynote, "CRISK: Measuring Climate Risk Exposure of Financial Systems" CUF, Global Forum of Finance and Economics, China July 8, 2023
- Keynote, "Have Capital Markets Forgotten Sustainability?" Volatility Conference, Singapore June 20, 2023
- Keynote, "Have Capital Markets Forgotten Sustainability?" KAIST, Seoul, June 19, 2023
- Keynote, "Sustainability and Termination Risk" SoFiE, Seoul, Sungkyunkwan University, June 16, 2023
- Keynote, "Compound Risk" Copenhagen Business School, Copenhagen, June 9, 2023
- Keynote, "CRISK: Measuring Climate Risk Exposure of Financial Systems" UBS Conference, May 25, 2023
- Discussion, "A Quantile Approach to Evaluating Asset Pricing Models" by Tjeerd de Vries, March 25, 2023
- Keynote, "CRISK: Measuring Climate Risk Exposure of Financial Systems" Bank of Spain, May 10, 2023
- Keynote, "Compound Risk" Carlos III, May 10, 2023
- Keynote, "A Financial Approach to Climate Risk" Universidad Pontificia Comillas, May 10, 2023
- Keynote, "Have Capital Markets Forgotten Sustainability?" Universidad Pontificia Comillas, May

9, 2023

- Keynote, “Have Capital Markets Forgotten Sustainability?” Harvard University, Celebration of the Career of Tim Stock and Mark Watson, May 6, 2023
- Lecture, “Compound Risk” Volatility and Risk Institute Conference, NYU, Virtual, April 28 2023
- Keynote, “Have Capital Markets Forgotten Sustainability?” UCSD, In Honor of Bruce Lehman, March 27, 2023
- Keynote, “Have Capital Markets Forgotten Sustainability?” RCEA Conference on Global Threats to the World Economy, Milan, February 22, 2023
- Keynote, “Have Capital Markets Forgotten Sustainability?” Australian Finance and Banking Conference, International Forum on the Environment, Water, Climate Change and Green Finance, Sidney, Australia, December 14, 2022
- Keynote, “Climate Financial Risk: Portfolios and Stress Tests” European Commission, October 22, 2022.
- Keynote, “A Financial Approach to Climate Risk” University of Witwatersrand, South Africa, October 20, 2022
- Keynote, “Climate Stress Testing for Latin American Banks” Inter-American Development Bank, October 11, 2022
- Keynote, “Climate Financial Risk: Portfolios and Stress Tests” Wilmott Quant Seminar, New York, September 29, 2022
- Keynote, “Long Run Risk and Climate Hedge Portfolios” GRETA Conference, September 22, 2022
- Keynote, “The Impact of Climate Change on Rural Regions and How to Finance Adaptation and Mitigation” Sustainability Days Conference, International Platform for Regions of the Future, ALTO-ADIGE, Italy, September 6, 2022
- Keynote, “A Financial Approach to Climate Change Risk,” Kraneshares Investor Day, New York Stock Exchange, New York, NY, June 2022
- Lecture, “Climate Financial Risk: Portfolios and Stress Tests” Bloomberg Quant Seminar, New York, NY, May 2022
- Lecture, “What’s New at the VRI?” Volatility and Risk Institute Conference, NYU, Virtual, April 2022
- Keynote, “Climate Risk and Net Zero Targets,” Fifth Digital China Construction Summit, Virtual, April 2022
- Testimony, “Hearing on Banking and Climate Risks,” New York State Senate Banks Committee, Senate Finance Committee, and the Senate Environmental Conservation Committee, Virtual, March 2022
- Session Chair, “The Path to Greener Financial System,” AEA Annual Meeting 2022, Virtual, January 2022
- Keynote, “Climate Financial Risk: Global Implications,” The Seventh Annual Volatility Institute Conference at NYU Shanghai “Climate Risk-Modeling, Financial and Economic Impacts, and Response” NYU Shanghai, Virtual, November 2021
- Keynote, “Climate change and financial risk,” 7th Annual Monetary and Financial Policy Conference, October 2021.
- Lecture, CREDIT 2021: Compound Risk: Climate, Disaster, Finance, Pandemic, GRETA, Venice, Italy, September 2021.
- Keynote, “5th Climate Econometrics Conference,” University of Victoria, Virtual, August 2021
- Keynote, “Climate Financial Risk: Portfolios and Stress Tests,” 11th RCEA Money-Macro-Finance Online Conference, Virtual, July 2021

- Webinar, “Climate Risk and the Pandemic”, University of Cambridge, Virtual, May 2021
- Lecture, “What’s New in VLAB?” Volatility and Risk Institute Conference, NYU, Virtual, April 2021
- Panel, “Nobel Dialogue Session,” IESE, March 2021
- Webinar, “Climate Risk and the Pandemic,” Seminar on Climate Economics, Federal Reserve Bank of San Francisco, Virtual, March 2021
- Keynote, “COVID-19 and climate change: challenges for investors,” The Sixth Annual Volatility Institute Conference at NYU Shanghai, Virtual, November 2020.
- Webinar, “Making sense of today and predicting the future”, The HBS Club of San Diego, Webinar, November 2020
- Roundtable, “Climate Disclosure and Firms” NYU School of Law Institute for Corporate Governance and Finance, Virtual, October 2020
- Panel, “Corporate Climate Risk: Assessment, Disclosure, and Action”, Institute for Policy Integrity and Volatility and Risk Institute Conference, Virtual, October 2020
- Panel, SoFiE Past Presidents on “Financial Econometrics and the Pandemic,” Virtual SoFiE Seminar, August 2020
- Lecture, “Measuring and Hedging Geopolitical Risk,” Virtual SoFiE Seminar, July 2020
- Lecture, “Measuring the Financial Impact of Covid-19,” University of Science and Technology of China, Virtual, June 2020
- Lecture, “What’s New in VLAB?” Inaugural Volatility and Risk Institute Conference, NYU, Virtual, April 2020
- Lecture, “Measuring the Financial Impact of Covid-19,” Faculty Insights: Covid-19 and NYC Video Seminar Series, NYU Stern, April 2020
- Keynote, “A Financial Approach to Climate Risk,” 32nd Australasian Finance and Banking Conference, Sydney, Australia, December 2019
- Dr. RH Patil Memorial Lecture, “Financial Volatility in an Age of Geopolitical Risks,” National Stock Exchange, Mumbai, India, November 2019
- Keynote, “Geopolitical Risk with Implications for Financial Stability and Credit Risk,” Fifth Annual Volatility Institute Conference at NYU Shanghai, Shanghai, China, November 2019
- Keynote, “Financial Volatility in an Age of Geopolitical Risks,” Risk USA, New York, NY, November 2019
- Lecture, “A Financial Approach to Climate Risk,” Kepos Capital, New York, NY, November 2019
- Laurent Picard Distinguished Lecture, “A Financial Approach to Climate Risk,” McGill University, Montreal, Canada, October 2019
- Lecture, “Measuring the Probability of a Financial Crisis,” ECB Conference on Monetary Policy: Bridging Science and Practice, Frankfurt, Germany, October 2019
- Lecture, “A Financial Approach to Climate Risk,” Bank of Greece, Athens, Greece, October 2019
- Panel, “Climate Change Risk: A Practitioners’ View,” 18<sup>th</sup> International Conference on Credit Risk Evaluation, Venice, Italy, September 2019
- Lecture, “New Results on Sustainable Investing,” 18<sup>th</sup> International Conference on Credit Risk Evaluation, Venice, Italy, September 2019, September 2019
- Keynote, “A Financial Approach to Climate Risk,” Energy and Commodities Finance Research Conference, September 2019
- Lecture “Prospects of Global Financial Stability,” E. Deane Kanaly Lecture at University of Oklahoma, Norman, OK, September 2019
- Lecture, “Volatility and Risk Management,” Public Pension Funding Forum, New York, NY,

September 2019

- Lecture, “Financial Volatility in an Age of Geopolitical Risks,” 12<sup>th</sup> Annual SoFiE Conference, Shanghai, China, June 2019
- Keynote, “Financial Volatility in an Age of Geopolitical Risks,” 2019 China Annual Conference & 5th Annual DUFEE Xinghai Forum, Dalian, China, June 2019
- Keynote, “A Financial Approach to Climate Risk,” T20 Summit, Tokyo, Japan, May 2019
- Keynote, “Financial Volatility and Geopolitical Risk,” Journal Of Investment Management Spring Conference, May 2019
- Lecture, “Hedging Geopolitical based on a Multiplicative Volatility Factor Model,” 11<sup>th</sup> Annual Volatility Institute Conference, NYU, New York, NY, April 2019
- Lecture, “Hedging Geopolitical based on a Multiplicative Volatility Factor Model,” QFE Seminar, Volatility Institute, NYU Stern, New York, NY, April 2019
- Keynote Speaker, “A Financial Approach to Climate Risk,” 15<sup>th</sup> International WEAI Conference, Tokyo, Japan, March 2019
- Lecture, “The Costs of Trading CDS in the Wake of the Lehman Bankruptcy,” Macro Financial Modeling Winter Meeting, New York, NY, February 2019
- Lecture, “Prospects for Financial Stability in Chile,” Central Bank of Chile, Santiago, Chile, December 2018
- Lecture, “Financial Stability in Chile and the Region,” Chilean Ministry of Finance, Santiago, Chile, December 2018
- Keynote Speaker, “Risk Forecasting for the Chinese Stock Market and Financial Sector,” Lujiazui Financial Risk Management Forum, Shanghai, China, November 2018
- Keynote Speaker, “Risk Forecasting for the Chinese Stock Market and Financial Sector,” Volatility Institute Shanghai (VINS) Conference, Shanghai, China, November 2018
- Presentation, “Systemic Risk: 10 Years Later,” 2008 Financial Crisis: A Ten-Year Review Conference, New York, NY, November 2018
- Keynote Speaker, “How Much SRISK is Too Much?” Sacred Heart University, Fairfield, Connecticut, November 2018
- Keynote Speaker, “A Financial Approach to Climate Risk,” GRI Summit 2018, Toronto, Canada, October 2018
- Keynote Speaker, “How Much SRISK is Too Much?” 53rd Colombian Banking Summit, Cartagena, Colombia, August 2018
- Lecture, “Prospects for Global Financial Stability,” University of Brescia, Brescia, Italy, June 2018
- Lecture, “A Financial Approach to Climate Risk,” Bicocca University, Milan, Italy, June 2018
- Lecture, “How Much SRISK is Too Much?” Nicolaus Copernicus University, Torun, Poland, June 2018
- Lecture, “How Much SRISK is Too Much?” Ca’ Foscari University, Venice, Italy, May 2018
- Seminar, “How Much SRISK is Too Much?” Federal Reserve Bank, Washington, DC, May 2018
- Seminar, “How Much SRISK is Too Much?” Office of Financial Research, Washington, DC, May 2018
- Seminar, “How Much SRISK is Too Much?” Yale University, New Haven, CT, May 2018
- Seminar, “How Much SRISK is Too Much?” Caltech, Pasadena, CA, March 2018
- Lecture, “How Much SRISK is Too Much?” Johannesburg, South Africa, February 2018
- Keynote, “A Financial Approach to Climate Risk” FT Climate Finance Summit, New York, NY, February 2018
- Lecture, “How Much SRISK is Too Much?” Macro Financial Modeling Winter 2018 Meeting, New York, NY, January 2018

- Lecture, “Large Dynamic Covariance Matrices” 28<sup>th</sup> EC<sup>2</sup> on Time-varying Parameter Models, Amsterdam, Netherlands, December 2017
- Lecture, “How Much SRISK is Too Much?” Royal Danish Academy, Copenhagen, Denmark, December 2017
- Seminar, “A Financial Approach to Environmental Risk and Climate Change,” Global Risk Institute, New York, NY, December 2017
- Keynote Speaker, “How Much SRISK is Too Much?” Hong Kong Polytechnic University, November 2017
- Lecture, “How Much SRISK is Too Much?” Zhejiang University, Hangzhou, China, November 2017
- Keynote Speaker, “How Much SRISK is Too Much?” Volatility Institute Shanghai (VINS) Conference, Shanghai, China, November 2017
- Keynote Speaker, “How Much SRISK is Too Much?” Inter-American Development Bank, Washington, DC, October 2017
- Panelist, “Evidence-based policy making: challenges and opportunities,” Central European University, Budapest, Hungary, October 2017
- Seminar, “How Much SRISK is Too Much?” Central European University, Budapest, Hungary, October 2017
- Keynote Speaker, “How Much SRISK is Too Much?” Slovak Economic Association Meeting (SEAM 2017), Košice, Slovakia, September 2017
- Dinner Speaker, 2017 NBER-NSF Time Series Conference, Kellogg School of Management, Evanston, IL, September 2017
- Keynote Video Presentation, “How Much SRISK is Too Much?” IFABS Asia 2017 Conference, Ningbo, China, August 2017
- Lecture, “How Much SRISK is Too Much?” SoFiE Conference, NYU Stern, New York, NY, June 2017
- Lecture, “Systemic Risk with Endogenous Cycles,” Bernoulli Lecture at the EPFL, HEC Lausanne, Switzerland, June 2017
- Lecture, “Large Dynamic Covariance Matrices,” Big Data in Dynamic Predictive Econometric Modeling, University of Pennsylvania, Philadelphia, PA, May 2017
- Lecture, “Structural GARCH: The Volatility-Leverage Connection,” Princeton University, Princeton, NJ, May 2017
- Lecture, “What’s New In V-Lab,” Volatility Institute Conference, NYU, New York, NY, April 2017
- Keynote Speaker, “Systemic Risk with Endogenous Cycles,” Conference on Banks, Systemic Risk, Measurement and Mitigation, La Sapienza, Rome, Italy, March 2017
- Keynote Speaker, “Prospects of Global Financial Stability,” Western Economic Association International 13th International Conference, Santiago, Chile, January 2017
- Keynote Speaker, “Prospects of Global Financial Stability,” Tsinghua University, Beijing, China, November 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” Beihang University, Beijing, China, November 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” Nankai University, Tianjin, China, November 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” Volatility Institute Shanghai (VINS) Conference, Shanghai, China, November 2016
- Keynote Speaker, “FMA International and CBOE’s Conference on Derivatives and Volatility, Chicago, IL, November 2016



- Keynote Speaker, “Dynamic Conditional Beta,” Random Processes and Time Series: Theory and Applications a Conference in Honor of Murray Rosenblatt, UCSD, San Diego, CA, October 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” UBS Equity Derivatives Conference, New York, NY, October 2016
- Lecture, “Prospects of Global Financial Stability,” Sy Syms School of Business Seminar, Yeshiva University, New York, NY, September 2016
- Lecture, “Structural GARCH: The Volatility-Leverage Connection,” New Developments in Measuring and Forecasting Financial Volatility Conference, Duke University, Durham, NC, September 2016
- Keynote Speaker, “Stressing Australasian Financials,” Asian Development Bank’s International Conference on Financial Cycles, Systemic Risk, Interconnectedness, and Policy Options for Resilience, Sydney, Australia, September 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” SAP Central Bank Executive Summit, Heidelberg, Germany, July 2016
- Keynote Speaker, “Prospects of Global Financial Stability,” RiskMathics Risk Management & Trading Conference, Mexico City, June 2016
- Lecture, “A New Look at Liquidity,” The Kyle Conference: Market Mechanisms & Their Impact, College Park, MD, April 2016
- Lecture, “A New Look at Liquidity,” Q Group Spring Seminar, Washington, DC, April 2016
- Keynote Speaker, “Dynamic Conditional Beta and Global Financial Instability”, Thailand Econometric Society Conference, Chiang Mai, Thailand, January 2016
- Keynote Speaker, “Looking Forward To The Risks of 2016,” Volatility Institute Shanghai (VINS) Conference, Shanghai, China, November 2015
- Lecture, “Dynamic Conditional Beta and Global Financial Instability,” ICDM Conference, Atlantic City, NJ, November 2015
- Lecture, “Monitoring Systemic Risk with V-Lab,” Global Risk Institute Conference, Toronto, Canada, November 2015
- Lecture, “Prospects for Global Financial Stability,” University of Vienna, Recipient, Oskar-Morgenstern Medal Award, Vienna, Austria, October 2015
- Lecture, “Long Run Risk Management: Scenario Generation for the Term Structure,” Stevanovich Center, Chicago, October 2015
- Lecture, “Prospects for Global Financial Stability,” Inter-American Bank, Washington DC, October 2015
- Lecture, “Prospects for Global Financial Stability,” Cleveland Federal Reserve Bank, Cleveland, October 2015
- Lecture, “Latest Results on Systemic Risk Modeling, MFO Oberwolfach Workshop, Germany, September 2015
- Lecture, “Measuring Systemic Risk with Dynamic Conditional Beta, Brooklyn College, Systemic Risk Hub, May 2015
- Lecture, “Measuring Systemic Risk with Dynamic Conditional Beta, Columbia University, May 2015
- Lecture, “The Outlook for Financial Stability In Europe,” Rome, February 2015
- Lecture, “Prospects for Global Financial Stability,” Gallatin/TCH Seminar, February 2015
- Lecture, “Latest Results in Systemic Risk,” WEAI, Wellington New Zealand, January 2015
- Lecture, “Structural GARCH,” EC2 conference, Barcelona, December 2014
- Lecture, “Forecasting Illiquidity,” Market Microstructure, Paris, December 2014
- Lecture, “Dynamic Conditional Beta: Some New Results,” French Econometrics Conference,

December 2014

- Lecture, “Monitoring Systemic Risk with V-Lab, SAIF Shanghai, November 2014
- Speaker at launch of Volatility Institute Shanghai (VINS), November 2014
- Lecture, “Prospects for Global Financial Stability,” University of Macau, November 2014
- Lecture, “Prospects for Global Financial Stability,” Hong Kong Polytechnic University, November 2014
- Invited Workshop Panelist, “The Economic and Financial Risks of a Changing Climate,” Resources for the Future (RFF)/American Association for the Advancement of Science (AAAS), New York, NY, November 2014
- Keynote Speaker, “US and China in a Shifting Global Economic Order: A Finance Perspective at TCFA’s 20th Anniversary,” The Chinese Finance Association (TCFA) 20<sup>th</sup> Annual Conference, November 2014
- Lecture, Lecture in Honor of 100<sup>th</sup> Anniversary of TC Liu’s Birth, Cornell University, Ithaca, NY, October 2014
- Lecture, Honorary Patronage Award, Trinity College, University Philosophical Society, Dublin, Ireland, September 2014
- Lecture, “Monitoring Systemic Risk: Data, Models and Metrics” at Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, September 2014
- Keynote speaker at Banque de France, ACPR, and SoFiE joint sponsored conference on Systemic Risk and Financial Regulation in Paris, “Structural GARCH: The Volatility-Leverage Connection,” July 2014
- Keynote speaker at 1<sup>st</sup> International Conference on Sovereign Bond Markets conference in Tokyo, “The Global Outlook on Systemic Risk,” June 2014
- Lecture, ISEO Summer School – Italy, June 2014
- Lecture, “Nobel Laureate Robert Engle: A Financial Approach to Environmental Risk,” Resources For the Future – Washington, DC, March, 2014
- Keynote speaker at Risk Minds Conference – Amsterdam, December 2013
- Keynote speaker at the 26th Australasian Finance and Banking Conference, Australia, December 2013
- Keynote speaker at Federal Reserve Conference on Capital Adequacy, November 2013
- Keynote speaker at “Recent Advances in Commodity Markets” conference, London, November 2013
- Keynote speaker at IV International Meeting “Chile Towards Development” as guest (with Nouriel Roubini (New York University); Jeffrey Sachs (Columbia University); Michael Boskin (Stanford University); Laurence Kotlikoff (Boston University); and Barry Eichengreen (University of California – Berkeley)) of Treasury Minister Felipe Larraín, October 2013
- Keynote speaker at the Macro Financial Modeling and Macroeconomic Fragility Conference, “Structural GARCH: The Volatility-Leverage Connection”, Boston, October 2013
- Keynote speaker at The Institute for New Economic Thinking and China’s Tsinghua University conference, “The Good Life: The Challenges of Progress in China,” Shenzhen, September 2013
- Keynote speaker at the First International Conference SYRTO Project, “Monitoring Systemic Risk with V-Lab”, Brescia, June 2013
- Keynote speaker at The NYU Stern Global Alumni Conference & the NYU Stern China Policy Summit, Shanghai, June 2013
- Keynote speaker at 30<sup>th</sup> International French Finance Association Conference, Lyon, May 2013
- Panel speaker at the Bloomberg Washington Summit, “The Investor Confidence Game”, Washington, DC, April 2013
- Keynote speaker at WEAI 10<sup>th</sup> Biennial Pacific Rim Conference, Tokyo, March 2013

- Keynote speaker at World Economic Forum, Davos, January 2013
- Host at breakfast for central bankers in Davos, January 2013
- Keynote Speaker, 25th Australasian Finance and Banking Conference, “Regional Financial Stability: Systemic Risk, Liquidity Risk, and Governance”, Sydney, December 2012
- Keynote speaker on “Global Financial Stability and Systemic Risk Today” at Luigi Solari Conference, University of Geneva, November 2012
- Keynote speaker on “European Systemic Risk” at 4<sup>th</sup> French Econometrics Conference, ENSAI, Rennes, November 2012
- Presentation titled, “Volatility and Systemic Risk” at Bendheim Center Princeton Lectures in Finance, Princeton, October 2012
- Keynote speaker at Conference on Systemic Risk and Data Issues– DC, October 2012
- Keynote speaker on “Systemic Risk Today: Measurement and Regulation” at G20 Conference on Financial Systemic Risk– Istanbul, September 2012
- Presentation titled, “How Does Systemic Risk Look Today” at PRIMIA Global Risk Conference– New York City, May 2012
- Presentation titled, “When and How to Play Defense: Strategies for Volatile Markets” at Common Fund Conference– Orlando, March 2012
- Presentation titled, “Volatility, Correlation and Tails for Systemic Risk Management” at Risk Minds Conference – Geneva, December 2011
- Presentation titled, “Volatility, Regulation and Systemic Risks” at International Forum on Financial Risk – Toronto, October 2011
- Speaker, European Colloquia – Italy, September 2011
- Presentations titled, “Financial Institutions Systemic Risk and Innovation” and “Volatility Correlations and Tails”, at RBA/BIS Conference - Australia, June 2011
- Columbia University’s 17<sup>th</sup> Annual Workshop on Financial Engineering: Quantitative Trading and Asset Management (presentation on NYU’s Systemic Risk Rankings) – Columbia University, November 2010
- Luncheon Address titled “Counterparty Risk and Dodd-Frank” at the NYU-DTCC Conference titled “Managing Counterparty and Systemic Risk Under Dodd-Frank” – New York University, November, 2010
- Plenary Address titled “Volatility – Where Are We Going?” and Workshop titled “Global Financial Stability and Long Run Risks”, at the South African Statistical Association (SASA) Conference – South Africa, November 2010
- Keynote Speech on “NYU Stern Systemic Risk Ranking” at the 13<sup>th</sup> Conference of the European Central Bank (ECB) – Center for Financial Studies (CFS) Research Network on “Macro-Prudential Regulation as an Approach to Contain Systemic Risk: Economic Foundations, Diagnostic Tools and Policy Instruments” – Frankfurt, September 2010
- Scientific Seminar on Financial Econometrics - Tinbergen Institute, Amsterdam, September 2010
- Keynote Address titled “Global Financial Stability and Long Term Risk” for the Global Derivatives 2010 Conference – Paris, France, May 2010
- Eötvös Loránd University – Budapest, December 2009
- Hungarian National Bank – Budapest, December 2009
- Nobels Colloquia in Trieste – Italy, December 2009
- Derivatives 2009: Looking Towards the Future – NYU Salomon Center, November 2009
- Global Summit for the World Economic Forum – Dubai, November 2009
- Nobel Chair for Taiwan National Central University - Taipei, November 2009
- Taiwan Stock Exchange – Taipei, November 2009

- Science and Innovation Week – Mexico, September 2009
- New Economics School – Moscow, August 2009
- Asociación de Economistas de América Latina y el Caribe - Cuba, March 2009
- Stanford Institute for Economic Policy Research (SIEPR), February Associates Meeting: “What is Happening to Financial Market Volatility and Why?” – February, 2009
- Speaker/Participant at the World Economic Forum – Davos, January 2009
- International Peace Foundation: “Bridges – Dialogues Towards a Culture of Peace” – Bangkok, December 2008
- Lecture on “High Dimension Dynamic Correlations” at HIS joint with OeNB - Vienna, December 2008
- Speaker/Participant at Nobels Colloquia - Trieste, December 2008
- Conference on Multivariate and Extremes - Oxford University, November 2008
- NY Quantitative Finance Seminar - November 2008
- Conference at Bendhiem - October 2008
- New York Academy of Sciences Conference - Mexico, September 2008
- NBER/NSF Aarhus University - September 2008
- Research Seminar, University of Savoie – France, March 2008
- Speaker/Participant at Nobels Colloquia in Trieste - December 2007
- Lecture on “High Dimension Dynamic Correlations” at HIS joint with OeNB - Vienna, December 2007
- Keynote speaker at ISEO European Colloquia and Pioneer Investment - Vienna
- Panel Discussant on Volatility TOPIC: The Fed’s role & the impact of financial turmoil on the real economy with Tom Cooley and Mickey Levy, Chief Economist of Bank of America - November 2007
- Public Lecture at Universidad Carlos III - Madrid, Spain. October 30, 2007
- Master Lecture at Foundation Rafael Del Pino – Madrid, Spain, October 29, 2007
- Keynote Speaker at the Multivariate Volatility Models Conference - Faro, Portugal, October 26, 2007
- Keynote Address and Official Opening Remarks for the FMA 2007 Annual Meeting - Orlando, Florida, October 17, 2007
- Lecture titled “Vector Multiplicative Error Models: Representation and Inference” at the Princeton Conference on Likelihood Methods – Princeton, NJ, October 2007
- Keynote Speaker for the Journal of Investment Management Conference Series - Boston, MA., September 2007
- Invited talk “DECO: Dynamic Equicorrelation Models for Large Correlation Matrices” at the 2007 European meeting of the Econometric Society - Budapest, Hungary, August 2007
- Keynote Speaker for the Conference 2007 International Symposium on Financial Engineering and Risk Management (FERM2007) - Beijing 11-12, June 2007
- Speaker Address titled “Volatility, Downside Risk, Portfolio Models, and VAR” - Distinguished Lecture Series at KAIST Graduate School of Finance - Seoul, South Korea
- Lecture on “Global Financial Volatility” at the Chancellor’s Distinguished Lecture Series at University of California – Riverside, May 2007
- Speaker at the Inaugural Rady School Finance Conference - May 2007
- Public Lecture at University of Technology - Sydney, Australia, April 12, 2007
- Speaker Address titled “Global Financial Volatility”, European Central Bank – Frankfurt, Feb. 5, 2007
- Speaker Address titled “Global Financial Volatility”, Swiss National Bank – Zurich, Feb. 2, 2007

- Lecture on “Anticipating Correlations”, Manchester Business School – Manchester, UK., Jan. 31, 2007
- Lecture on “Execution Risk”, Morgan Stanley Conference – London School of Economics, London, Jan. 30, 2007
- Panel Presenter at the World Economic Forum – Davos, Switzerland, January 2007
- Lecture at the Econometrics Conference at Yale University - New Haven, Connecticut, Dec. 2, 2006
- Keynote speech at Ukrainian National University – Kiev, Ukraine, Oct. 13, 2006
- Lecture on “Measuring and Modeling Execution Cost and Risk”, Time Series Conference – Montreal, Quebec, Sept. 29, 2006
- Lecture at the University of Florence, Sept. 15, 2006
- Lecture on “Global Financial Volatility”, Lindau Foundation – Germany, Aug. 16, 2006
- Speaker at the International Symposium on Forecasting – Santander, Spain, June 12, 2006
- Speaker at INSEAD - Paris, France, June 9, 2006
- Lecture at Hautes Etudes Commerciales - Université de Lausanne, June 8, 2006
- Lecture on “Execution Risk” - Paris Microstructure, June 6, 2006
- Edmund R. Mechalik Distinguished Lecture in the Mathematical Sciences, “Global Volatility: It’s Measurement, Interpretation, and Causes” - University of Pittsburgh, April 7-9, 2006.
- Speaker: “Downside Risk and its Implications for Financial Management”, Q-Group Conference – Institute for Quantitative Research in Finance, West Palm Beach, Florida, March 31-April 3, 2006
- Speaker: “Financial Volatility – Causes, Consequences, and Global Patterns”, Midwest Economics Association – Chicago, March 24-25, 2006
- Will Mann Richardson Lectureship - Austin College, March 3-5, 2006
- Lecture and Workshop on “Execution Risk” - University of Toronto, Feb. 17-19, 2006
- Host, Monday Quantitative Finance & Econometrics Seminars: Stern School of Business – NYU. On-going
- Keynote speaker “Allied Social Science Association’s Annual Convention, KUU Conference, American Economic Association - Boston, MA., January 6-8, 2006
- Public Lectures at Chongqing University, Wuhan University, Huanzang University, National Taiwan University, TABF Inauguration, NBER Trio Conference, Tokyo University - December 2005
- “A Brief History of Time”, Economics Roundtable for University of California - San Diego, August 2005
- Keynote Speaker: “Underlying Dynamics of Credit Correlations”, Risk Magazine Quant Congress - New York, NY, November 8, 2005.
- Hedge Fund Lecture Principal Speaker on “Measuring Downside Risk”: IXIS - NYU Banking Conference Series on Hedge Funds - September 2005
- Stern Honors Society Lecture, Stern School of Business – New York University, November 3, 2005
- Opening Address: “The Spline GARCH Model for Unconditional Volatility and its Global Macroeconomic Causes”, Statistical and Applied Mathematical Sciences Institute Conference - Duke University, North Carolina, September 2005
- “Downside Risk – Econometric Models and Financial Implications”, ASTIN – AFIR Conference - Zurich, Switzerland, September 2005
- Key Note Speaker, International Conference on Finance - University of Copenhagen, Denmark, September 2005
- Chair Speaker, Econometrics Society World Congress - London, England, August 2005

- “MBS and Credit Derivatives – The Recent Development”, 13<sup>th</sup> annual PBFAE Conference - Rutgers University, New Brunswick, June 10, 2006
- Lecture: Changing Structures in International and Financial Market and the Effects on Financial Decision Making - Venice, Italy, June 2 & 3, 2005
- Lecture on “Frontiers in Time Series Analysis”, Journal of Applied Econometrics Annual Conference, Sardinia, Italy - May 29-31, 2005
- Financial Econometrics Conference - University of Montreal, May 19<sup>th</sup>, 2005
- Induction Ceremony Key Note Speaker, Penncrest High school - May 18<sup>th</sup>, 2005
- Keynote Speaker, Morgan Stanley Equity Market Microstructure Research Conference - May 12<sup>th</sup>-13<sup>th</sup>, 2005
- Paper presentation on Microstructure, National Bureau of Economic - Cambridge, MA., May 6, 2005
- “Stern Scholar in the Parlor”, Hosted by Leonard Stern, Stern School of Business - April 20<sup>th</sup>, 2005
- “Statistics Day”, University of Maryland Conference on Statistics - April 15<sup>th</sup>, 2005
- Federal Reserve System’s Fourth Annual Community Affairs Research - Federal Reserve Bank of New York, April 8<sup>th</sup>, 2005
- Lecture: Citigroup Conference - April 6<sup>th</sup>, 2005
- “Dean’s Roundtable Luncheon”, Stern Executive Board, Stern School of Business – NYU, April 5<sup>th</sup>, 2005
- Presentation on “Testing and Valuing Dynamic Correlations for Asset Allocation”, Research Conference for Corporate Associates. Stern School of Business – NYU, April 2005
- Public Lecture: Budapest Collegium, “Downside Risk: Implications for Financial Management”, European Cultural Foundation - March 23, 2005
- Lecture on “Downside Risk: Implications for Financial Management”, the Czech National Bank, Czech Economic Society and CERGE-EI - March 17, 2005
- Lecture: “A Simple GARCH Approach to Default Correlations”, International Association of Financial Engineers - New York, NY., March 2, 2005
- “Cutting Edge Innovations and Derivatives”, Credit Suisse First Boston First Annual Meeting, March 2005
- Joint lunch of the AEA/AFA Annual Meeting - Philadelphia, 2004
- Econometric Institute/Princeton University Press lecture series - Erasmus University, 2003
- Nobel Lecture - Stockholm, 2003
- Fields Lecture - University of Toronto, 2001
- Conference Honoree and Keynote Address, “International Conference on Modeling and Forecasting Financial Volatility” - Perth, Australia, 2001
- Lecture Series, Finnish Statistical Association Meeting - Vassa, Finland, 2001
- Journal of Applied Econometrics Lecture Series - Cambridge, England, 2001
- Lecture Series, Academia Sinica - Taiwan, 2000
- A.W. Phillips Lecture, Australasian Meetings of the Econometric Society - Melbourne, 1997
- Fisher Schultz Lecture, European Meeting of the Econometric Society - Istanbul 1996
- Frank Paish Lecture, Annual Meeting of the Royal Economic Society - Swansea 1996
- Pareto Lecture, Annual Meeting of ASSET - Istanbul, 1995

## **RESEARCH PUBLICATIONS**

Engle has published well over 100 academic research papers, four books and many other scholarly works. These are mostly in the broad area of time series econometrics with the most important

applications to financial markets. Over the years, Engle's authored influential papers analyzing macro economics, energy markets, urban economies and emerging markets as well as the main financial asset classes: equities, currencies, fixed income and derivatives. Two of his papers have reached milestones in citations: the paper introducing the *ARCH* model in 1982 and the paper coauthored with Clive Granger introducing *Cointegration*, in 1987. These two papers were honored in "Citation Classics" as two of the most cited of all papers in economics. They were also the two papers forming the basis for the 2003 Nobel Prize.

The most heavily cited papers are listed below. For more listings, see sections [Working Papers](#), [Expository Papers](#), [Books & Book Chapters](#) and a [Complete Listing of Chronological Publications](#).

- ["Dynamic Conditional Correlation - A Simple Class of Multivariate GARCH Models,"](#) *Journal of Business and Economic Statistics* (July 2002), V20N3 (cited by 2,898 as of September, 2014)
- ["Multivariate Simultaneous Generalized ARCH,"](#) (with Kenneth F. Kroner), *Econometric Theory*, Vol. 11, No. 1 (1995) (cited by 2,988 as of September, 2014)
- ["Measuring and Testing the Impact of News on Volatility,"](#) *The Journal of Finance*, Vol. 48, No. 5 (Dec, 1993) (cited by 3,088 as of September, 2014)
- ["A Long Memory Property of Stock Market Returns and a New Model,"](#) (with Zhuanxin Ding and Clive W.J. Granger), *Journal of Empirical Finance*, Vol. 1, Issue 1 (June 1993): 83-106. (cited by 2,455 as of September, 2014)
- ["A Capital Asset Pricing Model with Time-Varying Covariances,"](#) (with Tim Bollerslev and Jeffrey M. Wooldridge), *The Journal of Political Economy*, Vol. 96, 1988 (cited by 2,468 as of September, 2014)
- ["Forecasting and Testing in Co-integrated Systems,"](#) (with Byung Sam Yoo), *Journal of Econometrics*, Vol. 35 (1987): 143-159. (cited by 2,153 as of September, 2014)
- ["Estimating Time Varying Risk Premia in the Term Structure: the ARCH-M Model,"](#) (with David M. Lilien and Russell P. Robins), *Econometrica*, Vol. 55 (1987): 391-407. (cited by 2,373 as of September, 2014)
- ["Co-integration and Error Correction: Representation, Estimation and Testing,"](#) (with C.W.J. Granger), *Econometrica* 55 (1987): 251-276. (cited by 23,581 as of September, 2014)
- ["Autoregressive Conditional Heteroscedasticity with Estimates of the Variance of United Kingdom Inflation,"](#) *Econometrica*, Vol. 50, No. 4 (July 1982): 987-1007. (cited by 16,470 as of September, 2014)

## WORKING PAPERS

- "How Much SRISK is Too Much" (with Tianyue Ruan), (September 2018).
- "Aspects of Regional Financial Stability: A Policy Approach," (with Fariborz Moshirian and Bohui Zhang) (October 2014)
- "The Conditional CAPM Explains the Value Premium," (with Turan G. Bali) Social Science Research Network (SSRN) (November 2012)
- "Liquidity, Volatility, and Flights to Safety in the U.S. Treasury Market: Evidence from a New Class of Dynamic Order Book Models," (with Michael Fleming, Eric Ghysels, and Giang Nguyen), (June 2012)
- "Volatility, Correlation and Tails for Systemic Risk Measurement," (with Christian T. Brownlees), (2011)
- "When Is Noise Not Noise – A Microstructure Estimate of Realized Volatility," (with Zheng Sun) (2007)

- “Fitting and Testing Vast Dimensional Time-Varying Covariance Models,” (with Kevin Sheppard and Neil Sheppard) (2007)
- “Forecasting Variance of Variance: The Square-root, the Affine and the CEV GARCH Models,” with Isao Ishida - under revision
- “Theoretical Properties of Dynamic Conditional Correlation Multivariate GARCH,” (with Kevin Sheppard) (2005)
- “Evaluating the Specification of Covariance Models for Large Portfolios,” (with Kevin Sheppard) (2005)
- “Time-Varying Betas and Asymmetric Effects of News: Empirical Analysis of Blue Chip Stocks,” (with Young-Hye Cho) - under revision
- “Modeling the Impacts of Market Activity on Bid-Ask Spreads in the Option Market,” (with Young-Hye Cho) - under revision
- “Macroeconomic Announcements and Volatility of Treasury Futures,” (with Li Li) - under revision
- “Conditional Volatility of Exchange Rates Under a Target Zone,” (with Yin-Feng Gau) - under revision

## EXPOSITORY PAPERS

- Robert Engle, Sergio M. Focardi and Frank J. Fabozzi, “ARCH/GARCH Models in Applied Financial Econometrics,” in *Chapter in Handbook Series in Finance by Frank J. Fabozzi* (John Wiley & Sons, 2008)
- “The ET Interview: Robert F. Engle,” (interviewed by Francis X. Diebold), *Econometric Theory* (January 2003) v19 n6
- “Robert F. Engle III, autobiography (2004) Les Prix Nobel 2003, Nobel Foundation, pp. 309-325
- “Risk and Volatility: Econometric Models and Financial Practice,” Nobel Lecture, (2004) *American Economic Review*, V94M3 pp 405-420
- “Grappling with GARCH,” (with Joseph Mezrich), *RISK* (1995): 112-117
- “GARCH for Groups,” (with Joseph Mezrich), *RISK* (1996): 36-40
- “GARCH 101: The Use of ARCH/GARCH Models in Applied Econometrics”, *Journal of Economic Perspectives* (Fall 2001), V15N4
- “What Good is a Volatility Model?” (with Andrew Patton), *Quantitative Finance*, (March 2001) V1N2 pp 237-245
- “Financial Econometrics – A New Discipline with New Methods,” *Journal of Econometrics* (Jan. 2001), V100 pp53-56

## BOOKS and Book Chapters

- Robert Engle, Turan G. Bali and Scott Murray, “Empirical Asset Pricing: The Cross Section of Stock Returns (Wiley Series in Probability and Statistics,” (Wiley Publishers, 2016)
- Robert Engle, “Modeling Commodity Prices with Dynamic Conditional Beta,” in *Essays in Nonlinear Time Series Econometrics* (Oxford University Press, 2014), Chapter 11, pg 269-287.
- Robert Engle, “What is Happening with Financial Market Volatility and Why?,” in *Volatility – Risk and Uncertainty in Financial Markets* (Zicklin School of Business Financial Markets Series, Springer Science + Business Media, 2011), chapter 3.
- Viral V. Acharya, Christian Brownlees, Farhang Farazmand and Matthew Richardson, “Measuring Systemic Risk,” in *Regulating Wall Street: The Dodd-Frank Act and the New Architecture of Global Finance* (Wiley Publishers, 2010), chapter 4.



- Robert F. Engle and Jeffrey Russell, “Analysis of High Frequency and Transaction Data,” in *Handbook of Financial Econometrics*, eds. Yacine Ait-Sahalia and Lars Hansen (North Holland, 2010)
- Robert Engle and Riccardo Colacito, “The Term Structure of Risk: the Role of Known and Unknown Risks, and Nonstationary Distributions,” in *The Known, the Unknown and the Unknowable in Financial Risk Management: Measurement and Theory Advancing Practice* (Princeton University Press, 2010), chapter 4.
- Robert Engle, Viral V. Acharya, Stephen Figlewski, Anthony Lynch and Marti Subrahmanyam, “Centralized Clearing for Credit Derivatives,” in *Restoring Financial Stability: How to Repair a Failed System* (Wiley Publishers, 2009), chapter 11.
- Robert Engle, “High Dimension Dynamic Correlations,” in *The Methodology and Practice of Econometrics: A Festschrift in Honour of David F. Hendry*, eds. Jennifer L. Castle and Neil Shephard (Oxford University Press, 2009), chapter 5.
- Robert Engle, Viral V. Acharya, Menachem Brenner, Anthony W. Lynch, and Matthew Richardson, “Derivatives: The Ultimate Financial Innovation,” in *Restoring Financial Stability: How to Repair a Failed System* (Wiley Publishers, 2009), chapter 10.
- Robert Engle, *Anticipating Correlations* (Princeton University Press, 2008)
- Robert Engle, Foreword in *Handbook of Financial Time Series* (Springer, 2008)
- Robert Engle, Sergio M. Focardi and Frank J. Fabozzi, “ARCH/GARCH Models in Applied Financial Econometrics,” in *Chapter in Handbook Series in Finance by Frank J. Fabozzi* (John Wiley & Sons, 2008)
- Robert Engle, “Good Ideas,” in *Econometric Analysis of Financial and Economic Time Series: Vol. 20, Parts A/B*, dedicated to Robert Engle and C.W.J. Granger (Elsevier, Ltd., 2006)
- *Cointegration, Causality, and Forecasting: A Festschrift in Honor of Clive W. J. Granger*, eds. Halbert White and Robert F. Engle (Oxford University Press, 1999)
- Robert F. Engle, *ARCH: Selected Readings* (Oxford University Press, 1995)
- *Handbook of Econometrics, Volume IV*, eds. Robert F. Engle and Dan McFadden (Amsterdam: North Holland, 1994)
- *Long Run Economic Relations: Readings in Cointegration*, eds. Robert F. Engle and C.W.J. Granger (Oxford: Oxford University Press, 1991)

## COMPLETE CHRONOLOGICAL LIST OF PUBLICATIONS

- "Measuring the Climate Risk Exposure of Insurers," (with Hyeyoon Jung, Shan Ge, and Xuran Zeng). *Federal Reserve Bank of New York Staff Report* 1066, July 2023.
- “Climate Stress Testing” (with Viral Acharya, Richard Berner, Hyeyoon Jung, Johannes Stroebe, Xuran Zeng and Yihao Zhao), *Annual Review of Financial Economics*, forthcoming.
- “What are the events that shake our world? Measuring and hedging global COVOL,” (with Susana Campos-Martins). *Journal of Financial Economics* (2023), Volume 147:1, Pages 221-242.
- “Global Equity Market Volatility during the Initial Stages of Pandemic: Drivers and Policy Responses” (with Nazli Alan and Ahmet Karagozoglul) *The Journal of Portfolio Management*, August 2022.
- “Large dynamic covariance matrices: Enhancements based on intraday data” (with Gianluca De Nard, Olivier Ledoit, Michael Wolf) *Journal of Banking & Finance*. Volume 138, May 2022.
- "Climate stress testing," (with Hyeyoon Jung and Richard Berner) Federal Reserve Bank of New York Staff Report 977, 2021.

- "Environmental, Social, Governance: Implications for businesses and effects for stakeholders," (with Marina Brogi, Nicola Cucari, and Valentina Lagasio). *Corporate Social Responsibility and Environmental Management*, vol. 28(5), pages 1423-1425, September 2021.
- "News and Idiosyncratic Volatility: The Public Information Processing Hypothesis" (with Ahmet K. Karagozoglu, Asger Lunde, and Martin Klint Hansen), *Journal of Financial Econometrics* (2020).
- "Fitting Vast Dimensional Time-Varying Covariance Models," (with Cavit Pakel, Neil Shephard, Kevin Sheppard), *Journal of Business & Economic Statistics* (2020), 1-17.
- "Hedging Climate Change News," (with Stefano Giglio, Heebum Lee, Bryan Kelly, Johannes Stroebel), *Review of Financial Studies* (2020), Vol. 10:125-152.
- "Liquidity and Volatility in the U.S. Treasury Market," (with Giang Nguyen, Michael Fleming, Eric Ghysels), *Journal of Econometrics* (2020), Vol. 217(2): 207-229.
- "Measuring the probability of a financial crisis" (with Tianyue Ruan), *Proceedings of the National Academy of Sciences* (2019), 116 (37) 18341-18346.
- "Systemic Risk 10 Years Later," *Annual Review of Financial Economics* (2018), Vol. 10:125-152.
- "Systemic Risk in the Financial System: Capital Shortfalls under Brexit, the US Elections and the Italian Referendum," (with Cristiano Zazzara), *The Journal of Credit Risk* (2018), 14(4):97-120.
- "Large Dynamic Covariance Matrices," (with Michael Wolf and Olivier Lledoit), *Journal of Business & Economic Statistics* (2017).
- "Globalization: Contents and Discontents," (with Orley Ashenfelter, Daniel L. McFadden, and Klaus Schmidt-Hebbel), *Contemporary Economic Policy* (2017).
- "Structural GARCH: The Volatility-Leverage Connection," (with Emil Siriwardane), *Review of Financial Studies* (2017), Vol. 31(2): pp. 449-492.
- "Scenario Generation for Long-Run Interest Rate Risk Assessment," (with Guillaume Roussellet and Emil Siriwardane), *Journal of Econometrics* (2017), Vol. 201(2): 333-347.
- "SRISK: A Conditional Capital Shortfall Index for Systemic Risk Measurement," (with Christian Brownlees), *Review of Financial Studies* (2017), Volume 30, Issue 1, Pages 48-79.
- "Issues in Applying Financial Econometrics to Factor-Based Modeling in Investment Management," (with Sergio Focardi and Frank Fabozzi), *Journal of Portfolio Management* (2016), Vol. 42(5): pp. 79-93.
- "Dynamic Conditional Beta," *Journal of Financial Econometrics* (2016), 14(4): 643-667.
- "Dynamic Conditional Beta Is Alive and Well in the Cross Section of Daily Stock Returns," (with Turan G. Bali and Yi Tang), *Management Science* (2016), Articles in Advance, pp. 1-20.
- "Systemic Risk in Europe," (with Eric Jondeau and Michael Rockinger) *Review of Finance* (2015), 19 (1), pp. 145-190.
- "Priced Risk and Asymmetric Volatility in the Cross-Section of Skewness" (with Abhishek Mishra) *Journal of Econometrics* (September 2014), Volume 182, pages 135-144.
- "Testing Macroprudential Stress Tests: The Risk of Regulatory Risk Weights," (with Viral Acharya and Diane Pierret) *Journal of Monetary Economics* (2014), Volume 65, pages 36-53, July 2014.
- "Semiparametric Vector Mem," (with Fabrizio Cipollini and Giampiero M. Gallo) *Journal of Applied Econometrics* (2013), Volume 28, Issue 7, pages 1067-1086, November/December 2013.
- "Stock Market Volatility and Macroeconomic Fundamentals," (with Eric Ghysels and Bumjean Sohn) *The Review of Economics and Statistics* (July 2013), vol. 95, No. 3, pp. 776-797.

- “Capital Shortfall: A New Approach to Ranking and Regulating Systemic Risks” (with Viral Acharya and Matthew Richardson,) *American Economic Review* (2012), vol. 102, issue 3, pp.59-64.
- “Dynamic Equicorrelation,” (with Bryan Kelly), *Journal of Business and Economic Statistics*, (May 2012): 212-228, V30, No. 2
- “Volatility Spillovers in East Asian Financial Markets: A Mem-Based Approach,” (with Giampiero M. Gallo and Margherita Velucchi) *Review of Economics and Statistics* (2012), 94(1) February, pp. 222-223.
- “The Factor-Spline-GARCH Model for High and Low Frequency Correlations,” (with Jose Gonzalo Rangel) *Journal of Business and Economic Statistics* (2012), 30, No 1 January, pp. 109-124.
- “Measuring and Modeling Execution Cost and Risk” (with Jeffrey Russell and Robert Ferstenberg), *Journal of Portfolio Management* (winter 2012), Vol. 38, No. 2: pp. 14-28.
- “Forecasting intraday volatility in the US equity market. Multiplicative component GARCH,” (with Magdalena E. Sokalska), *Journal of Financial Econometrics* (winter 2012) 10(1): pp. 54-83
- “A Practical Guide to Volatility Forecasting Through Calm and Storm” (with Christian T. Brownlees and Bryan T. Kelly), *The Journal of Risk* (winter 2011/12), Vol. 14/Number 2
- “A Component Model for Dynamic Correlations” (with Riccardo Colacito and Eric Ghysels), *Journal of Econometrics* (2011) 164: 45–59.
- “Long-Term Skewness and Systemic Risk” *Journal of Financial Econometrics* (2011) 9(3): 437-468
- Robert Engle, “What is Happening with Financial Market Volatility and Why?” in *Volatility – Risk and Uncertainty in Financial Markets* (Zicklin School of Business Financial Markets Series, Springer Science + Business Media, 2011), chapter 3.
- “The Intertemporal Capital Asset Pricing Model with Dynamic Conditional Correlations” (with Turan Bali), *Journal of Monetary Economics* (May 2010) 57(4), 377-390 [previously titled *Investigating ICAPM with Dynamic Conditional Correlations*].
- Viral V. Acharya, Christian Brownlees, Farhang Farazmand and Matthew Richardson, “Measuring Systemic Risk,” in *Regulating Wall Street: The Dodd-Frank Act and the New Architecture of Global Finance* (Wiley Publishers, 2010), chapter 4.
- Robert F. Engle and Jeffrey Russell, “Analysis of High Frequency and Transaction Data,” in *Handbook of Financial Econometrics*, eds. Yacine Ait-Sahalia and Lars Hansen (North Holland, 2010)
- Robert Engle and Riccardo Colacito, “The Term Structure of Risk: the Role of Known and Unknown Risks, and Nonstationary Distributions,” in *The Known, the Unknown and the Unknowable in Financial Risk Management: Measurement and Theory Advancing Practice* (Princeton University Press, 2010), chapter 4.
- Robert Engle, Viral V. Acharya, Stephen Figlewski, Anthony Lynch and Marti Subrahmanyam, “Centralized Clearing for Credit Derivatives,” in *Restoring Financial Stability: How to Repair a Failed System* (Wiley Publishers, 2009), chapter 11.
- Robert Engle, Viral V. Acharya, Menachem Brenner, Anthony W. Lynch, and Matthew Richardson, “Derivatives: The Ultimate Financial Innovation,” in *Restoring Financial Stability: How to Repair a Failed System* (Wiley Publishers, 2009), chapter 10.
- Robert Engle, “High Dimension Dynamic Correlations,” in *The Methodology and Practice of Econometrics: A Festschrift in Honour of David F. Hendry*, eds. Jennifer L. Castle and Neil Shephard (Oxford University Press, 2009), chapter 5.
- “The Risk That Risk Will Change” *Journal of Investment Management* (2009), Vol. 7, No.4, pp. 24-28.

- Robert Engle, *Anticipating Correlations* (Princeton University Press, 2008)
- “Time-Varying Arrival Rates of Informed and Uninformed Trades” with David Easley, Maureen O’Hara, Liuren Wu. *Journal of Financial Econometrics* (2008)
- Robert Engle, Sergio M. Focardi and Frank J. Fabozzi, “ARCH/GARCH Models in Applied Financial Econometrics,” in *Chapter in Handbook Series in Finance by Frank J. Fabozzi* (John Wiley & Sons, 2008)
- “A GARCH Option Pricing Model with Filtered Historical Simulation” *Review of Financial Studies*, Vol. 21 Issue 3 May, pp. 1223-1258, 36p: Barone-Adesi, Giovanni; Engle, Robert F.; Mancini, Lorian (2008)
- “The Spline GARCH Model for Low Frequency Volatility and Its Global Macroeconomic Causes,” in *Review of Financial Studies*, Engle, Robert & J. Gonzalo Rangel (2008)
- “Underlying Dynamics of Credit Correlations,” *Journal of Credit Risk* (2007); (with Artem Voronov and Arthur Berd), Vol. 3, N2: 27-62
- “Execution Risk”, (with Robert Ferstenberg) *Journal of Portfolio Management*, Winter (2007), V33, I2, pp.34-45
- “Testing and Valuing Dynamic Correlations for Asset Allocation,” (with Riccardo Colacito), *Journal of Business and Economic Statistics*, Vol.24, N.2 (April 2006)
- “A Long Run Pure Variance Common Features Model for the Common Volatilities of the Dow Jones,” (with Juri Marcucci), *Journal of Econometrics*, V132 (2006), pp. 7-42
- Robert Engle, “Good Ideas,” in *Econometric Analysis of Financial and Economic Time Series: Vol. 20, Parts A/B*, dedicated to Robert Engle and C.W.J. Granger (Elsevier, Ltd., 2006)
- “Are Exchange Traded Funds Fairly Priced?” (with Debo Sarkar), *Journal of Derivatives*. Summer (2006) pp. 27-45
- “Asymmetric Dynamics in the Correlations of Global Equity and Bond Returns,” (with Lorenzo Cappiello and Kevin Sheppard). *Journal of Financial Econometrics*, (2006) Oxford University Press, vol. 4(4), pages 537-572
- “A Multiple Indicators Model for Volatility Using Intra-Daily Data,” (with Giampiero Gallo) *Journal of Econometrics*, 131 (2006) pp. 3-27
- “The Econometrics of Macroeconomics, Finance and the Interface.” (with Francis Diebold, Carlo Favero, Giampiero M. Gallo, and Frank Schorfthiede), *Journal of Econometrics*, (2006): pp.1-2, V131
- “A comment on ‘The Econometric Analysis of Economic Time Series,’” *International Statistical Review* (2005) 51: 149-150
- “A Discrete-State Continuous-Time Model of Financial Transactions Prices and Times: The Autoregressive conditional Multinomial-Autoregressive Conditional Duration Model (with Jeffrey Russell),” *Journal of Business and Economic Statistics*, (April 2005): 166-180, V23, No. 2
- “Risk and Volatility: Econometric Models and Financial Practice,” Nobel Lecture, *American Economic Review*, (June 2004) V94, No. 3
- “Impacts of Trades in an Error-Correction Model of Quote Prices,” (with Andrew Patton), *Journal of Financial Markets*, (January 2004), Vol. 7, No. 4.
- “CAViaR: Conditional Autoregressive Value at Risk by Regression Quantiles,” (with Simone Manganelli), *Journal of Business and Economic Statistics*, (October 2004): 367-381, V22, No.4
- Robert F. Engle and Simone Manganelli, “A Comparison of Value-at-Risk Models in Finance,” in *Risk Measures for the 21<sup>st</sup> Century*, ed. Giorgio Szego (Wiley, 2004)
- “The ET Interview: Robert F. Engle,” (interviewed by Francis X. Diebold) *Econometric Theory* (December 2003) V19N6, pp. 1159-1193

- “Trades and Quotes: A Bivariate Point Process,” (with Asger Lunde), *Journal of Financial Econometrics*, (Summer 2003) V1N2, pp. 159-188
- “New Frontiers in ARCH Models,” *Journal of Applied Econometrics*, (2002): 425-446, V17N2
- “Dynamic Conditional Correlation - A Simple Class of Multivariate GARCH Models,” *Journal of Business and Economic Statistics*, (July 2002): 339-350, V20N3
- “Empirical Pricing Kernels,” (with Joshua Rosenberg), *Journal of Financial Economics*, (June 2002): 341-372, V64N3
- “Measuring, Forecasting and Explaining Time Varying Liquidity in the Stock Market,” (with Joe Lange), *Journal of Financial Markets*, (2001), Vol. 4 No. 2, pp 113-142.
- “GARCH 101: The Use of ARCH/GARCH Models in Applied Econometrics”, *Journal of Economic Perspectives* (Fall 2001): 157-168, V15N4
- “Large Scale Conditional Covariance Matrix Modeling, Estimation and Testing,” (with Zhuanxin Ding), *Academia Economic Papers* (June 2001) V29N2
- “What Good is a Volatility Model?,” (with Andrew Patton), *Quantitative Finance* (March 2001) V1N2, pp237-245
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## **MEDIA**

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- [CBC News](#), May 2, 2018 (“Economists Warn Trump on Trade”)
- [Bloomberg Business, February 9, 2018](#) (“Nobel Laureate Engle Says Volatility Is Result of Economic Fundamentals”)
- [CNN Indonesia, February 27, 2017](#) (“Special Program: Robert F. Engle III”)

- [Bloomberg Business, November 3, 2016](#) (“Volatility ‘Pretty Manageable’ at ‘This Point’”)
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- [Bloomberg Surveillance, January 28, 2016](#) (“Matus and Engle”)
- [Bloomberg Business, December 14, 2015](#) (“Charting the Risk of a Federal Reserve Rate Hike”)
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- [Bloomberg TV, December 6, 2012](#) (“Europe More Dangerous Than Fiscal Cliff, Engle Says”)
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- BNN (Canada’s Business News Network), April 7, 2010 (“The Health of U.S. Financial Markets” - Robert Engle, Nobel laureate and professor of finance at NYU Stern School of Business, talks to BNN about the health of U.S. financial markets.)
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- [Bloomberg TV, September 30, 2009](#) (“In-Depth Look – SEC/CFTC Regulation Report” - Interview and discussion with the 2003 Nobel Prize Winner, Robert Engle. He says the key is to protect against systemic risks. )
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- [CNBC Squawk Box, June 25, 2009](#) (“Fed, Economy & Regulation” - Robert Engle, the 2003 Nobel laureate in economics, shares his outlook on the Fed, the economy and regulation.)
- [Bloomberg TV, June 10, 2009](#) (“In-Depth Look – Volatility Market” – Interview and discussion with Robert Engle of the Stern School of Business. He talks about the drop in volatility in the market globally.”)
- [CNBC Squawk Box, April 8, 2009](#) (“Slowing the Financial Crisis” - Calculating the risk the government could be taking on as it tries to solve the financial crisis, with Robert Engle, 2003 Nobel Laureate/NYU Stern School of Business professor.)
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- [Al Jazeera, October 8, 2008](#) (“Riz Khan – Fear on Mainstreet – Part 1” - We take a look at the economic fears on Main Street. Riz Khan speaks with Robert Engle, the 2003 winner of the Nobel Prize for Economics, and Avis Jones-DeWeever, the director of the Research, Public Policy, and Information Center for African-American Women.)
- [CNBC Squawk Box, April 25, 2008](#) (“Where’s the Economy Going? Nobel Winners Weigh In” - CNBC’s “Squawk Box” hosted a meeting of the minds this morning: Past Nobel Prize winners shared their insight on the future of the markets.)
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