

DACHENG XIU

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EMPLOYMENT

Booth School of Business, University of Chicago

- Joseph Sondheimer Professor of Econometrics and Statistics, 2025 -
- Professor of Econometrics and Statistics, 2019 – 2024
- Associate Professor of Econometrics and Statistics, 2015 – 2019
- Assistant Professor of Econometrics and Statistics, 2011 – 2015

Department of Statistics, University of Chicago

- Affiliated Faculty, November 2022 –

National Bureau of Economic Research

- Research Associate, Asset Pricing Program, May 2024 –

OTHER APPOINTMENTS

Council member of the Society for Financial Econometrics, June 2025 –

EDITOR

Harvard Data Science Review, February 2024 - present

Journal of Business & Economic Statistics, September 2024 – present

Journal of Financial Econometrics, July 2019 – June 2023

ASSOCIATE EDITOR

Journal of Finance, September 2024 – present

Quantitative Economics, July 2024 – present

Journal of the American Statistical Association, January 2023 – present

Review of Asset Pricing Studies, August 2022 – present

Management Science, October 2019 – present

Journal of Econometrics, January 2017 – present

Frontiers of Mathematical Finance, January 2021 – January 2026

Harvard Data Science Review, November 2023 – January 2024

Journal of Empirical Finance, February 2019 – May 2024

Review of Financial Studies, July 2021 – June 2024

Econometrics Journal, January 2021 – December 2023

Journal of Applied Econometrics, January 2020 – December 2022

Journal of Business & Economic Statistics, January 2019 – December 2021
Statistica Sinica, August 2017 – July 2020

GUEST EDITOR

Journal of Financial Markets, Special Issue on “Machine Learning, Generative AI, and Trading”, 2024
Journal of Econometrics, Special Issue on “Predictive Modeling of Financial Data”, 2023

VISITING POSITIONS

Princeton University, Department of Economics, Visiting Professor, January 2024 - July 2024
Federal Reserve Board, Washington DC, Visiting Scholar, December 2023
Tsinghua University, PBC School of Finance, Special Term Professor, June 2019 - May 2027
Shanghai Jiao Tong University, SAIF, Visiting Research Professor, July 2019 - June 2027
Duke University, Department of Economics, Visiting Faculty, Fall 2015

EDUCATION

Princeton University, Ph.D. Applied Mathematics, May 2011
Princeton University, M.A. Applied Mathematics, June 2008
University of Science and Technology of China, B.S. Mathematics, June 2006

PUBLICATIONS

“Enhancing Investment Decisions with Sentiment Analysis: A Probabilistic Ranking Framework,” with Tracy Ke and Bryan Kelly. Previously Circulated as “Predicting Returns with Text Data.” Forthcoming in the *Journal of the American Statistical Association*.

- 2019 CICF Best Paper Award

“Continuous-Time Fama-MacBeth Regressions,” with Yacine Aït-Sahalia and Jean Jacod, *Review of Financial Studies*, Vol. 38, Issue 12, (2025), 3542-3579.

“Test Assets and Weak Factors,” with Stefano Giglio and Dake Zhang, *Journal of Finance*, Vol. 80, Issue 1, (2025), 259-319.

“Business News and Business Cycles,” with Leland Bybee, Bryan Kelly, and Asaf Manela, *Journal of Finance*, Vol. 79, Issue 5, (2024), 2905-3677.

- 2024 Dimensional Fund Advisors Prize for the Distinguished Papers

“Non-Standard Errors,” crowdsourcing project with 342 coauthors, *Journal of Finance*, Vol. 79, Issue 3, (2024), 2339-2390.

“(Re-)Imag(in)ing Price Trends,” with Jingwen Jiang and Bryan Kelly, *Journal of Finance*, Vol. 78, Issue 6, (2023), 3193-3249.

“When Moving-Average Models Meet High-Frequency Data: Uniform Inference on Volatility,” with Rui Da, *Econometrica*, Vol. 89, No. 6, (2021), 2787-2825.

“Asset Pricing with Omitted Factors,” with Stefano Giglio, *Journal of Political Economy*, Vol. 129, No 7, (2021), 1947-1990. (lead article)

- Best Conference Paper Prize at the 44th EFA

“Thousands of Alpha Tests,” with Stefano Giglio and Yuan Liao, *Review of Financial Studies*, Vol. 34, Issue 7, (2021), 3456-3496.

“Autoencoder Asset Pricing Models,” with Shihao Gu and Bryan Kelly, *Journal of Econometrics* 222 (2021), 429-450.

“Empirical Asset Pricing via Machine Learning,” with Shihao Gu and Bryan Kelly, *Review of Financial Studies*, Vol. 33, Issue 5, (2020), 2223-2273.

- 2018 Swiss Finance Institute Outstanding Paper Award
- BlackRock Research Award at the 31th Australasian Finance and Banking Conference
- 2018 Q-group Roger F. Murray First Prize
- 2018 Chicago Quantitative Alliance Annual Academic Competition Second Prize
- 2018 IQ-KAP Research Award 3. Prize

“Taming the Factor Zoo: A Test of New Factors,” with Gavin Feng and Stefano Giglio, *Journal of Finance*, Vol. 75, Issue 3, (2020), 1327-1370.

- 2018 AQR Insight Award First Prize

“High-Frequency Factor Models and Regressions,” with Yacine Aït-Sahalia and Ilze Kalnina, *Journal of Econometrics* 216 (2020), 86-105.

“A Hausman Test for the Presence of Market Microstructure Noise in High Frequency Data,” with Yacine Aït-Sahalia, *Journal of Econometrics* 211 (2019), 176-205.

“Knowing Factors or Factor Loadings, or Neither? Evaluating Estimators of Large Covariance Matrices with Noisy and Asynchronous Data,” with Chaoxing Dai and Kun Lu, *Journal of Econometrics* 208 (2019), 43-79.

“Efficient Estimation of Integrated Volatility Functionals via Multiscale Jackknife,” with Jia Li and Yunxiao Liu, *Annals of Statistics*, Vol. 47, No. 1 (2019), 156-176.

“Principal Component Analysis of High Frequency Data,” with Yacine Aït-Sahalia, *Journal of the American Statistical Association* Vol. 114, No. 525, (2019), 287-303.

“Resolution of Policy Uncertainty and Sudden Declines in Volatility,” with Dante Amengual, *Journal of Econometrics* 203 (2018), 297-315.

“Using Principal Component Analysis to Estimate a High Dimensional Factor Model with High Frequency Data,” with Yacine Aït-Sahalia, *Journal of Econometrics* 201 (2017), 384-399.

“Econometric Analysis of Multivariate Realized QML: Estimation of the Covariation of Equity Prices under Asynchronous Trading,” with Neil Shephard, *Journal of Econometrics* 201 (2017), 19-42.

“Nonparametric Estimation of the Leverage Effect: A Trade-off between Robustness and Efficiency,” with Ilze Kalnina, *Journal of the American Statistical Association* Vol. 112, No. 517, (2017), 384-396.

“Generalized Method of Integrated Moments with High Frequency Data,” with Jia Li, *Econometrica*, Vol. 84, No. 4, (2016), 1613-1633.

“Increased Correlation Among Asset Classes: Are Volatility or Jumps to Blame, or Both?” with Yacine Aït-Sahalia, *Journal of Econometrics* 194 (2016) 205-219.

“Incorporating Global Industrial Classification Standard into Portfolio Allocation: A Simple Factor-Based Large Covariance Matrix Estimator with High Frequency Data,” with Jianqing Fan and Alex Furger, *Journal of Business & Economic Statistics*, Vol. 34, No. 4, (2016), 489-503. *Big Data Special Issue*.

“A Tale of Two Option Markets: Pricing Kernels and Volatility Risk,” with Zhaogang Song, *Journal of Econometrics* 190 (2016), 176-196.

- *Dennis J. Aigner Honorable Mention* for the best paper in empirical econometrics published by the Journal of Econometrics in 2015 or 2016
- *Best Paper Award in Derivatives* at the International Symposium on Risk Management and Derivatives in 2012

“Hermite Polynomial based Expansion of European Option Prices,” *Journal of Econometrics* 179 (2014), 158-177.

“Quasi-Maximum Likelihood Estimation of GARCH Models with Heavy-Tailed Likelihoods,” with Jianqing Fan and Lei Qi, *Journal of Business & Economic Statistics*, Vol. 32, No. 2, (2014), 178-191. *Invited Paper with Discussion*.

“High Frequency Covariance Estimates with Noisy and Asynchronous Financial Data,” with Yacine Aït-Sahalia and Jianqing Fan, *Journal of the American Statistical Association*, Vol. 105, No. 492, (2010), 1504-1517.

“Quasi-Maximum Likelihood Estimation of Volatility with High Frequency Data,” *Journal of Econometrics* 159 (2010), 235-250.

WORKING PAPERS

“Disentangling Autocorrelated Intraday Returns,” with Rui Da. Revision Requested.

“Prediction when Factors are Weak,” with Stefano Giglio and Dake Zhang. Revision Requested.

“The Statistical Limit of Arbitrage,” with Rui Da and Stefan Nagel. Revision Requested.

“Can Machines Learn Weak Signals?” with Zhouyu Shen. Revision Requested.

- 2024 Bates-White Prize for the Best Paper at SoFiE Annual Conference

“Expected Returns and Large Language Models,” with Yifei Chen and Bryan Kelly.

- 2023 GSU-RFS FinTech Conference Best Paper Award

“Deep Autoencoders for Nonlinear Factor Models: Theory and Applications,” with Zhouyu Shen.

“Recurrent Neural Networks for Nonlinear Time Series,” with Xiao Chen, Yu Chen, and Zhouyu Shen.

BOOK CHAPTERS, SURVEYS, EDITORIALS, & COMMENTS

“Financial Machine Learning,” with Bryan Kelly, *Foundations and Trends in Finance, Vol. 13, No. 3-4, 205-363.*

“Factor Models, Machine Learning, and Asset Pricing,” with Stefano Giglio and Bryan Kelly, *Annual Review of Financial Economics, Vol. 14, (2022), 337-368.*

“The AI and Machine Learning Revolution in Financial Markets,” with Clara Vega and Liyan Yang, forthcoming in the *Journal of Financial Markets.*

“Predictive Modeling of Financial Data,” with Torben Andersen, Robert Taylor, and Allan Timmermann, *Journal of Econometrics, 237 (2023), 105496 – 105496.*

“Comment on: Limit of Random Measures Associated with the Increments of a Brownian Semimartingale,” with Jia Li, *Journal of Financial Econometrics, 16(4), 2018, 570-582.*

“Likelihood-Based Volatility Estimators in the Presence of Market Microstructure Noise: A Review,” with Yacine Aït-Sahalia, *Handbook of Volatility Models and their Applications, 2012, 347-361.*

SELECTED HONORS & AWARDS

Research Grant, The Scor Corporate Foundation for Science, 2026-2028

Zhu Kezhen Distinguished Lectureship, American Zhu Kezhen Education Foundation, 2025

Dimensional Fund Advisors Prize for the Distinguished Papers, 2024

Bates-White Prize for the Best Paper at SoFiE Annual Conference, 2024

Research Fund from Fama-Miller Center for Research in Finance, Chicago Booth, 2023-2024

Best Paper Award, GSU-RFS FinTech Conference, 2023

Poets & Quants’ 40 Under 40 MBA Professors, 2023

Best Associate Editor Award, *Journal of Econometrics*, 2020

Fellow of the Society for Financial Econometrics, 2019

Best Paper Award, China International Conference in Finance, 2019

Swiss Finance Institute Outstanding Paper Award, 2018
AQR Insight Award First Prize, 2018
BlackRock Research Award, the 31st Australasian Finance and Banking Conference, 2018
Charles E. Merrill Faculty Scholar, Chicago Booth, 2017-2018
Fellow of the Journal of Econometrics, 2017
Best Conference Paper Prize, the 44th Annual Meeting of the European Finance Association, 2017
Dennis J. Aigner Award (honorable mention), Journal of Econometrics, 2017
Microsoft Azure Research Award, 2016-2017
IBM Corporation Faculty Scholar, Chicago Booth, 2015-2016, 2016-2017
FMC Faculty Scholar, Chicago Booth, 2012-2013
Research Fund from Fama-Miller Center for Research in Finance, Chicago Booth, 2011-2021
Laha Award, the Institute of Mathematical Statistics, 2010
C.V. STARR Fellowship and Prize Scholarship, Princeton University, 2006-2007
Guo Moruo Scholarship (*Summa Cum Laude*), University of Science and Technology of China, 2005

PROFESSIONAL SERVICE

REFEREE

Economics: *Econometrica*, *Journal of Political Economy*, *Quarterly Journal of Economics*, *Review of Economic Studies*, *Journal of Econometrics*, *Journal of Business & Economic Statistics*, *Econometric Theory*, *Quantitative Economics*, *Journal of Applied Econometrics*, *the Econometrics Journal*, *Journal of Financial Econometrics*, *Econometric Reviews*, *Economics Letters*, *American Economic Review: Insights*, *Journal of Economic Dynamics and Control*

Finance: *Journal of Finance*, *Review of Financial Studies*, *Journal of Financial Economics*, *Annual Review of Financial Economics*, *Review of Finance*, *Management Science*, *Journal of Financial and Quantitative Analysis*, *Review of Asset Pricing Studies*, *Journal of Empirical Finance*, *European Journal of Finance*, *Journal of Banking and Finance*

Statistics: *Journal of the American Statistical Association*, *Annals of Statistics*, *Journal of the Royal Statistical Society B*, *Biometrika*, *Scandinavian Journal of Statistics*, *Statistical Sinica*, *Computational Statistics & Data Analysis*, *Journal of Forecasting*, *Journal of Time Series Analysis*

Quantitative Finance: *Mathematical Finance*, *Finance and Stochastic*, *Journal of Computational Finance*, *SIAM Journal of Financial Mathematics*, *Quantitative Finance*

Others: *Proceedings of the National Academy of Sciences*, *Journal of Accounting Research*, *US National Science Foundation*, *Swiss National Science Foundation*, *Netherlands Organization for Scientific Research Grant*, *Independent Research Fund Denmark*, *Research Grants Council of Hong Kong*, *National Natural Science Foundation of China*

PHD DISSERTATION COMMITTEE

Zhouyu Shen (Chair, Econometrics & Statistics, Peking University), Dake Zhang (Chair, Finance, Shanghai Jiaotong University), Rui Da (Co-Chair, Finance, Indiana University Kelley School of Business), Sofonias Korsaye (External, Finance, John Hopkins Carey Business School), Chaoxing Dai (Chair, Squarepoint Capital), Jingwen Jiang (Chair, Aquatic Capital Management), Shihao Gu (Chair, Ubiquant Investment), David Finer (Capital Technology Solutions), Jianeng Xu (Chicago Trading Company), Likai Chen (Statistics, Washington University in St. Louis), Gavin Feng (Co-Chair,

Management Sciences, City University of Hong Kong), Yoann Potiron (Statistics, Keio University), Yongning Wang (Morgan Stanley)

MASTER STUDENTS ADVISED

Jaehong Ahn (Berkeley, Finance PhD), Ke Shao (UCSD, Statistics PhD), Anhui Chang (UC Berkeley, Accounting PhD), Annie Ren (Boston College, Accounting PhD), Rong Bai (UIUC, Marketing PhD), Kaiwen Dong (Duke Fuqua, Marketing PhD), Zewei Deng (U Minnesota, Isys PhD), Kelly Yuan (LBS, Management Science and Operations PhD), Hongkun Zhang (USC Marshall, Management Organization PhD), Jianye Hua (UCLA, Finance PhD), Zhanpeng Song (PSU, Statistics PhD), Xiaoran Cheng (PSU, Statistics PhD), Yichen Ji (U Toronto, Statistics PhD), Chad Schmerling (Chicago Booth PhD), Yibei Cai (UWashington, Finance PhD), Zicheng Wang (HKU, Finance PhD), Ziqi Wang (U Maryland, Finance PhD), Yifei Chen (Chicago Booth PhD), Xuran Zeng (NYU, Finance PhD), Yuantao Shi (Oxford, Math PhD), Johnson Zhang (Cornell, Econ PhD), Tory Farmer (WUSTL, CS PhD), Zexuan Zhang (UIUC, Statistics PhD), Jingyi Fan (Boston College, Accounting PhD), Zilai Si (Northwestern, Engineering PhD), Yufan Zhang (Rochester, Finance PhD), Zhenghao Jiang (Purdue, Statistics PhD), Dian Jiao (Columbia Business School, Accounting PhD), Luyang Zhang (USC, Marshall DSO PhD), Tian Chen (Northwestern Kellogg, Accounting PhD), Hao Duan (UCLA, Statistics PhD), Ming Gao (Chicago Booth PhD), James Leiner (Carnegie Mellon, Statistics PhD), Rick Presman (Duke, Statistics PhD), Mingwei Ma (Chicago Booth PhD), Songrun He (WUSTL, Finance PhD), Chen Chen (UIUC, Finance PhD), Xinyu Liu (INSEAD, Finance PhD), Mingye Yin (OSU, Finance PhD), Dake Zhang (Chicago Booth PhD), Kangying Zhou (Yale, Finance PhD), Ziyu Song (Boston U, Finance PhD), Yi Zhang (Imperial College London, Finance PhD), Muzhe Zeng (Wisconsin, Statistics PhD), Kun Lu (Princeton, ORFE PhD), Hongyuan Mei (JHU, CS PhD), Lina Han (WUSTL, Finance PhD), Chaoxing Dai (Chicago Booth PhD), Yuan Wan (USC, Marshall Finance PhD), Wenxi Li (Chicago Booth PhD), Wenjing He (UCLA, Finance PhD), Nicolas Park (Citadel), Jessica Wang (ICBC Credit Suisse), Haoyuan Zou (eBay), Ying Zhao (Microsoft), Cheng Gao (Facebook), Yuwen Tan (Facebook), Shijie Li (S&P Capital IQ), Hetong Di (Belvedere Trading), Ningxin Wang (Merrill Lynch), Yu Gu (Bloomberg), Tianxin Xiao (Chicago Trading Company), Zhao Wang (Citadel)

UNDERGRADUATE STUDENTS ADVISED

Hannah Yao (UC Davis Statistics PhD), Ziyang Wu (NYU, Master of Data Science), Shan Jiang (Columbia, Master of Data Science), Jerry Liu (MIT, Sloan Master of Finance), Hongjia Chen (UT Austin, Statistics PhD), Jiayi Ding (Chicago, Master in Finance), Kevin Wang (MIT, Sloan Master of Finance), Brandon Li (MIT Sloan Master of Finance), Mingjie Zhang (Princeton, ORFE PhD), Will Xu (SMU, Finance PhD), Weiran Wang (Princeton, Master in Finance), Jerry Liu (MIT Sloan Master of Finance), Jie Meng (Stanford, MSE PhD), Jiarui Fan (Columbia, Finance PhD), Yifan Wu (Boston College, Finance PhD), Muchen Hu (Chicago Booth, Master in Finance), Yuchen Yu (Princeton, Master in Finance), Jiani Li (Chicago, MSMF), I-han Lai (Stanford, MSE PhD), Yuyang Jiang (Chicago Statistics MA), Jianye Hua (Columbia Business School MSFE), Arnav Prasad (Citadel), Mingyu Liu (Chicago Statistics MA), Rongfei Jiao (Columbia Business School MSFE), Hao Zhu (Chicago Statistics MA)

TEACHING EXPERIENCE

University of Chicago Booth School of Business

- 41100 Applied Regression Analysis (MBA)
Winter 2011-2013, 2015-2021, 2024, Fall 2014
- 41902 Statistics Inference (PhD)
Winter 2015-2026
- 34902 Asset Pricing II (PhD)
Winter 2026
- 20800 Big Data (Undergraduate)
Spring 2022, Winter 2023, 2024, 2025
- 41813 Decoding FinTech (EMBA/MBA)
Summer 2022, Winter 2023
- 32810 Artificial Intelligence (EMBA/MBA)
Summer 2024, Winter 2025
- 43100 Artificial Intelligence Essentials (MBA)
Winter 2026
- 41210 Financial Analytics (MiF)
September 2024, 2025

SoFiE Financial Econometrics Summer School

- Machine Learning and Finance: the New Empirical Asset Pricing (with Bryan Kelly)
July 23-27, 2018, University of Chicago
- Machine Learning and Finance (with Jianqing Fan)
August 2-6, 2021, New York University, Shanghai
- Financial Machine Learning (with Bryan Kelly and Semyon Malamud)
August 19-23, 2024, New York University, Shanghai
July 28-August 1, 2025, Yale University

Princeton University

- Fin 580 Quantitative Data Analysis in Finance (with Caio Almeida)
Spring 2024

Duke University

- Econ 883.1 Options, Futures, and Other Derivatives (Master/PhD)
Fall 2015

Swiss Finance Institute

- Machine Learning and Asset Pricing
October - November 2020

PRESENTATIONS

2026 AFA North American Meetings (Jan 3-4), University of Zurich (Feb 3-7), Georgia State University (Feb 27), Symposium on Innovative Mathematical Minds (Mar 26), University of South Dakota (Mar 30), Indiana University (Apr 7), University of Illinois Urbana Champaign (Apr 10), London Business School (Apr 16), University of Texas (May 1), UCLA (May 13),

- University of Bern (May 18-21), Toulouse Financial Econometrics Conference (May 22-23), International Conference on Machine Learning in Finance and Financial Econometrics (Keynote, June 27-28), Chinese Economist Society China Annual Conference (Invited Speaker, July 4-5), 16th China International Conference on Insurance and Risk Management (Keynote, July 8-11)
- 2025 AFA/ES North American Meetings (Jan 3-5), Toulouse School of Economics (Jan 30), Harvard/MIT Joint Econometrics Seminar (Feb 27), NYU Stern (Feb 28), EDHEC (Virtual Mar 18), Inquire Europe (Keynote, Mar 23-25), UNC Charlotte (Mar 28), Yale University (Apr 9), Rice University (Apr 11), Fudan University (Apr 18), University of California, Riverside (Apr 22), Peking University (Apr 25), Wuhan University (Apr 28), Federal Reserve Bank of Chicago (May 14), Ninth PKU-NUS Annual International Conference on Quantitative Finance and Economics (Keynote, May 18), International Symposium on Econometric Theory and Applications (SETA, Jun 2-3), International Conference on Quantitative Finance and Financial Econometrics (Keynote, Marseille, Jun 5-6), SoFiE Annual Conference (Jun 10-12), Nanyang Technological University (Jul 3-7), The 3rd Annual Conference on Capital Market Research in the Era of AI (Keynote, Beijing, Aug 18), The 2nd HKUST IAS-SBM Joint Workshop (Aug 24-27), Big Data and Artificial Intelligence in Econometrics, Finance, and Statistics (Oct 2-4), Wolfe Research 9th Annual Global Quant and Macro Investment Conference (Oct 7-8), AI in Finance Conference at Concordia University (Keynote, Oct 29), Montreal Econometrics Seminar (Oct 30), Fudan International Symposium on AI in Finance (Keynote, Nov 8), Macau Fintech Innovation Summit (Keynote, Nov 23), CUHK Shenzhen (Nov 28), Arizona State University (Dec 1), SFS Cavalcade Asia-Pacific (Dec 7), Shanghai Jiaotong University (Haoran Lecture, Dec 20), Conference at Capital University of Business and Economics (Keynote, Dec 27)
- 2024 Chicago Booth, Xiamen University, IAQF/Thalesians Seminar, Duke Fuqua, Triangle Econometrics Conference (Keynote), University of Pittsburgh, Market Microstructure, Quantitative Trading, High Frequency and Large Data, Dongbei University of Finance and Economics, Durham University, Queens Mary University of London, City, University of London, HKUST, Balyasny Asset Management, Federal Reserve Bank of Atlanta, Singapore Management University, SoFiE Annual Conference, EFMA 2024, 4th Annual Conference of the Financial Markets Research Group in Bristol (Keynote), Central University of Finance and Economics, Quarterly Journal of Finance Forum (Keynote), 2nd Joint Conference on Statistical and Data Science in China, Summer Institute of Finance (Keynote), National University of Singapore, ESIF Economics and AI+ML Meeting, European Finance Association, Zhongzheng Finance Research Institute, ESSEC-Amundi Webinar, NBER-NSF Time-Series Conference, Big Data and Artificial Intelligence in Econometrics, Finance, and Statistics, Princeton FinTech and Quant Conference, ITAM, Bates White Economic Consulting, Bloomberg, Tsinghua University, UT Dallas, UNSW Business School, University of Sydney, IMS Conference on Statistics and Data Science
- 2023 IAAE Invited Session at ASSA, AFA North American Meetings, Central University of Finance and Economics, Southern University of Science and Technology, University of Melbourne, Tsinghua University, 5th Annual NLP and Machine Learning in Investment Management Conference, NBER Asset Pricing, Louisiana State University, Kansas Econometrics Workshop, Peking University, Conference for FinTech AI and Big Data in Business (Keynote), 2023 China Fintech Research Conference (Keynote), Zhejiang University, DH Fund Management,

- Copenhagen Business School, 8th Young Econometricians in Asia-Pacific annual meeting (Keynote), SoFiE Annual Conference, Post-SoFiE Workshop, Conference on NLP for Social Data Science 2023, Workshop on Frontiers of Statistics and Data Science, AAAI Inaugural Summer Symposium, Shandong University, Federal Reserve Bank Philadelphia, WorldQuant, SITE 2023 New Frontiers in Asset Pricing, Risk Day at ETH, ETH Zurich, the Jacobs Levy Center's 2023 Frontiers in Quantitative Finance Conference, GSU-RFS FinTech Conference, Advances in Econometrics in Honor of Joon Park, Big Data and Machine Learning in Econometrics, Finance, and Statistics, Macquarie University, University of Sydney, Australia National University, Society of Quantitative Analysts & Chicago Quantitative Alliance, Fifth International Workshop in Financial Econometrics, Aarhus University, University of Illinois at Chicago, Northwestern University, Bank of Portugal, Fidelity Management & Research, Iowa State University, Tower Research Capital LLC, Georgetown University, Federal Reserve Board, Applied Machine Learning, Economics, and Data Science Webinar
- 2022 Global AI Finance Conference in Singapore (Keynote), Inaugural Digital Finance Conference in Seoul (Keynote), Princeton University, Columbia University, Yale SOM, NYU Courant, Swiss Finance Institute at EPFL, Oxford-Man Institute, Baruch College, PKU HSBC Business School, Tsinghua University SEM, Cheung Kong Graduate School of Business, Shanghai University of Finance and Economics, Indiana University, Sao Paulo School of Economics, Nankai University, Chow Institute at Xiamen University, Stockholm University, Lund University, Gothenburg University, Zhejiang Gongshang University, National University of Singapore, University of Ottawa, University of International Business and Economics, University of Science and Technology of China, University of Cincinnati, University of Glasgow, IAAE Invited Session at ASSA, AFA North American Meetings, Western Finance Association Annual Meetings (WFA), The 2nd Conference on FinTech, Innovation, and Development, Fudan-Stanford FARM Institute, Big Data and Machine Learning in Econometrics, Finance, and Statistics, China International Conference in Finance (CICF), International Conference on Econometrics, Asian Meeting of the Econometrics Society, Conference on Market Microstructure, Quantitative Trading, High Frequency and Large Data, ML Approaches Finance and Management Workshop, MIT AI & Quant Conference, Citi
- 2021 Financial Risks International Forum in Paris (Keynote), University of Oxford, Humboldt University of Berlin, Rutgers Business School, IDC Herzliya, University of Rochester, Chinese University of Hong Kong (Economics, Finance), Federal Reserve Board, ITAM Business School, London Business School, Stony Brook University, Hong Kong University of Science and Technology, Monash University, Nanjing Audit University, Australian National University, Renmin University x 2, University of Iowa, CUHK Shenzhen, University of Pompeu Fabra, Hong Kong University, University of Houston, Capital University of Economics and Business, AFA North American Meetings, NBER Asset Pricing, Virtual Workshop on Financial Econometrics, SoFiE Conference, IMSI Workshop on Machine Learning and Finance, China International Conference in Finance (CICF), 14th Annual Risk Management Conference at NUS, Transdisciplinary Econometrics & Data Science Seminar, FMA-CBOE Conference on Derivatives and Volatility, Future of Financial Information Webinar
- 2020 Joint Statistical Meetings (Invited Session), Singapore Management University, East China Normal University, Boston University Questrom School of Business, PBC School of Finance, Sun Yat-sen University, University of Nottingham, WUSTL Olin Business School, University of Science and Technology of China, SoFiE Virtual Seminar, European Finance Association

- 47th Annual Meetings (EFA), Econometric Research in Finance Workshop 2020, Society of Quantitative Analysis, BlackRock, Fidelity, Wolfe Virtual Quantitative and Macro Investment Conference, Citadel, AllianceBernstein, INQUIRE Europe
- 2019 Canadian Econometrics Study Group meeting (Plenary), SFI Research Days (Keynote), SoFiE Annual Meeting in Shanghai (Invited), 3rd Chinese Econometricians Forum (Keynote), Conference on Financial Econometrics and New Finance in Hangzhou (Keynote), SAIF International Conference on FinTech (Keynote), Northwestern University (Kellogg), University of Zurich, Hong Kong University of Science and Technology, Ohio State University, New York University (Stern), University of Pennsylvania, University of Southern California, Cheung Kong Graduate School of Business, AFA North American Meetings, GSU/RFS FinTech Conference, NBER Conference on Big Data: Long-Term Implications for Financial Markets and Firms, Risk Management and Financial Innovation Conference, 8th Annual Econometrics Workshop on Applied Econometrics and Data Science, USC Conference on Panel Data Forecasting, Market Microstructure and High Frequency Data Conference, SIAM Conference on Financial Mathematics & Engineering, Econometric Society Asian Meeting, JHU Carey Finance Conference, FinTech Symposium in Guanghua School of Management, China International Conference in Finance (CICF), NBER-NSF Time Series Conference at CUHK, European Finance Association 46th Annual Meetings (EFA), NUS Workshop on Asset Pricing and Risk Management, Big Data & Machine Learning in Economics, Finance, and Statistics, Chicago Booth Asset Pricing Conference, AI Innovations Forum, China Fintech Research Conference, Statistics Workshop at Peking University, AQR, Two Sigma, T. Rowe Price, Duxiaoman Financial, XY Investments LLC, Nine Martingale, Goldman Sachs Alternative Risk Premia Roundtables Forum, State of Wisconsin Investment Board
- 2018 Tilburg University, Erasmus University Rotterdam, Tinbergen Institute, Imperial College Business School, Aarhus University, Duke University, Federal Reserve Bank of Dallas, National University of Singapore, Singapore Management University, Indiana University, Rutgers, University of Cambridge, Tsinghua PBC School of Finance, City University of Hong Kong, University of International Business and Economics, Nanjing University, U.S. Securities and Exchange Commission, Financial Econometrics Conference at Toulouse School of Economics, Mind Bytes Symposium at the University of Chicago, New Aspects of Statistics, Financial Econometrics, and Data Science, Economics and Financial Econometrics in the Era of Big Data, Financial Engineering and Risk Management International Symposium (FERM), Conference on Financial Predictability and Data Science, Western Finance Association Annual Meetings (WFA), ICSA China Conference on Data Science, China International Conference in Finance (CICF), Interdisciplinary Conference on Big Data and China at Shenzhen Finance Institute, European Finance Association 45st Annual Meetings (EFA), New Methods for the Cross Section of Returns Conference, Big Data, Machine Learning and AI in Economics, Magnetar Capital Quantitative Research, Chicago Quantitative Alliance Fall 2018 Conference, 2nd Annual Global Quantitative and Macro Investing Conference in NYC, INQUIRE UK Conference in London
- 2017 Stanford University, Liverpool School of Management, Cass Business School at City, University of London, University College London, Durham Business School, Imperial College London, Nankai University, Fudan University, Renmin University of China, Peking University, Tsinghua University, Nanjing Audit University, Worcester Polytechnic Institute, Princeton-QUT-SJTU-SMU Econometrics Conference, Vienna-Copenhagen Conference on Financial

- Econometrics, HEC-McGill Winter Finance Workshop, Market Microstructure and High Frequency Data Conference, Asian Meeting of the Econometric Society, China Finance Review International Conference, 13th International Symposium on Econometric Theory and Applications, 1st International Conference on Econometrics and Statistics at HKUST, SoFiE Annual Meeting at NYU, INFORMS Applied Probability Society Conference, China International Conference in Finance, Joint Statistical Meetings (IMS Invited Session), University of Oregon Finance Conference, European Finance Association 44st Annual Meetings (EFA), Conference on Financial Predictability and Data Science, Annual INFORMS Meeting in Houston, New Developments in Econometrics and Time Series, Tsinghua Workshop on Big Data and Internet Economics, Fannie Mae
- 2016 University of Wisconsin-Madison (Statistics), Hong Kong University of Science and Technology, Xiamen University, University of Wisconsin-Madison (Economics), 2016 SIAM Conference on Financial Mathematics & Engineering, CEME Young Econometricians Workshop at Duke University, 5th Workshop on Algorithms for Modern Massive Data Sets at Berkeley, Carey/AQR Conference on Derivatives, The 2nd Conference on Financial Econometrics and Risk Management at the University of Western Ontario, Princeton-QUT-SJTU-SMU econometrics conference
- 2015 Toulouse School of Economics, Duke University, CEMFI Spain, Annual INFORMS Meeting in Philadelphia, NBER/NSF Time Series Conference at Vienna University, Econometrics of High-Dimensional Risk Networks Conference in Chicago, Econometric Society World Congress 2015 in Montreal, CEME Young Econometricians Workshop at Cornell University, 8th Annual SoFiE Conference at Aarhus University, IMS China in Kunming, Financial Econometrics Conference in Toulouse, Market Microstructure and High Frequency Data Conference in Chicago, MFA Annual Meeting in Chicago, AMS Spring Meeting on High-Frequency Problems at Michigan State University, North American Winter Meetings of the Econometric Society in Boston (AEA), Two Sigma
- 2014 Harvard/MIT Joint Econometrics Seminar, Princeton University, Purdue University, Boston University, University of Illinois at Chicago, Stevanovich Center at the University of Chicago, McGill Risk Management Conference, SoFiE Annual Meeting in Toronto, Financial Engineering and Risk Management International Symposium (FERM), 8th World Congress of the Bachelier Finance Society, Western Finance Association Annual Meetings (WFA), 10th International Symposium on Econometric Theory and Applications (SETA), 2014 China International Conference in Finance (CICF), European Finance Association 41st Annual Meetings (EFA), SIAM Conference on Financial Mathematics & Engineering (FM14)
- 2013 Northwestern University, Duke University, Brown University, Indiana University, University of Illinois at Chicago, Joint Statistical Meetings (JBES Invited Lecture), Financial Econometrics Conference at Toulouse School of Economics, High Frequency Data and High Frequency Trading Conference at University of Chicago, SoFiE Annual Meeting in Singapore, ES Asia Meeting at Singapore, 5th Annual Modeling High Frequency Data in Finance Conference
- 2012 University of Chicago, University of Montreal, CEMFI Spain, Liverpool School of Management, SoFiE Annual Meeting at Oxford, Financial Econometrics Conference at Toulouse School of Economics, Financial Engineering and Risk Management International Symposium (FERM), 2012 China International Conference in Finance (CICF)
- 2011 Northwestern University, Princeton University, Duke University, University of Chicago, Cornell, Imperial College London, Federal Reserve Bank of New York, University of Hong

- Kong, University of Southern California, Rutgers, Frontiers in Financial Econometrics Workshop at Queensland University of Technology, 17th International Conference on Computing in Economics and Finance at Federal Bank of San Francisco, UBS, Barclays Capital, Cornerstone Research
- 2010 Princeton University, Econometrics Society World Congress, IMS Annual Meeting, Joint Statistical Meetings (Invited Session), Workshop on Financial Econometrics at Fields Institute
- 2009 University of Chicago, The 2nd Princeton-Humboldt Finance Workshop, Joint Statistical Meetings, 1st Annual Modeling High Frequency Data in Finance Conference

DISCUSSIONS

- 2023 “Three Common Factors” at AFA North American Meetings
“Missing Financial Data” at NBER Asset Pricing Meeting
- 2021 “Bayesian Solutions for the Factor Zoo: We Just Ran Two Quadrillion Models” at NBER Asset Pricing Meeting.
“AlphaPortfolio for Investment and Economically Interpretable AI” at AFA North American Meetings
“Portfolio Choice with Subset Combination of Characteristics” at Renmin University 2nd International FinTech Conference
“Realized Volatility Forecasting: Machine Learning via Financial Word Embedding” at FMA Conference on Derivatives and Volatility
“Most Claimed Statistical Findings in Cross-sectional Return Predictability are Likely True” at Future of Financial Information Webinar
- 2020 “Risk Factors that Matter: Textural Analysis of Risk Disclosures for the Cross-Section of Returns” at EFA 47th Annual Meetings
“Life Cycle Cash Flows of Ventures” at Econometric Research in Finance Workshop 2020
- 2019 “Forest through the Trees: Building Cross-Sections of Stock Returns” at Chicago Booth Asset Pricing Conference
“Macroeconomic Risk, Expected Market Return, and the Cross-Section of Stock Returns: A Data-mining Perspective” at the China International Conference in Finance
- 2018 “The Cross-Section of Risk and Return” at EFA 45th Annual Meetings
“Assessing the Role of Long-run and Valuation Risks in Explaining Nominal Bond Yields” at China International Conference in Finance
“Shale Revolution and Shifting Crude Dynamics” at China International Forum on Finance and Policy
- 2017 “Nonparametric Option-Implied Volatility” at FMA Conference on Derivatives and Volatility
“Correlated High-Frequency Trading” at AFA North American Meetings
“Unified Inference for Nonlinear Factor Models from Panels with Fixed and Large Time Span” at MFA Annual Meeting in Chicago
- 2016 “Limit Theorems for Integrated Local Empirical Characteristic Exponents from Noisy High-Frequency Data with Application to Volatility and Jump Activity Estimation” at New Developments in Measuring & Forecasting Financial Volatility Conference at Duke/UNC
“How Crashes Develop: Intradaily Volatility and Crash Evolution” at FMA Conference on Derivatives and Volatility
- 2015 “Jump Regressions” at Financial Econometrics Conference at Toulouse School of Economics

- 2014 “A Spanning Series Approach to Options” at McGill Risk Management Conference
“Positional Portfolio Management” at EFA 41st Annual Meetings
“Free (Almost) Variance Insurance” at China International Conference in Finance
- 2013 “Simple Approximation Maximum Likelihood Estimation of Multivariate Jump-Diffusion Models” at Financial Econometrics Conference at Toulouse School of Economics
- 2012 “Jump Robust Two-Time Scale Covariance Estimation and Realized Volatility Budgets” at AFA North American Meetings
- 2011 “Asymptotic Theory of Maximum Likelihood Estimator for Diffusion Model”, “Density Approximations for Multivariate Affine Jump-Diffusion Processes”, and “An Investigation of Self-Exciting Market Processes using Option Prices” at 58th ISI World Statistics Congress
- 2010 “Quadratic Variation by Markov Chains” at ES North American Meetings