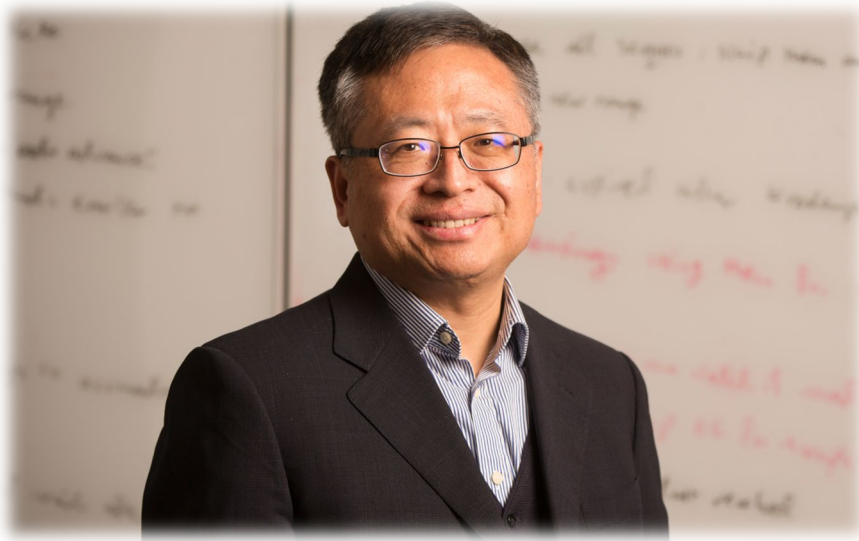


Keynote Speaker

Reinforcement Learning in Continuous Time and Its Financial Applications

Prof. Xunyu Zhou, Columbia University

09:00 – 10:00, 20 May 2023



Xunyu Zhou is the Liu Family Professor of Financial Engineering and the Director of the Nie Center for Intelligent Asset Management at Columbia University. He was the Nomura Professor of Mathematical Finance at University of Oxford before joining Columbia in 2016. His research covers stochastic control, dynamic portfolio selection, asset pricing, behavioral finance, and time inconsistency. Currently his research focuses on continuous-time reinforcement learning and applications to optimization broadly and to wealth management specifically. He is a recipient of the Wolfson Research Award from The Royal Society, the Outstanding Paper Prize from SIAM, the Alexander von Humboldt Research Fellowship, and the Croucher Senior Research Fellowship. He was an invited speaker at the 2010 International Congress of Mathematicians, a Humboldt Distinguished Lecturer at Humboldt University and an Archimedes Lecturer at Columbia. He is both an IEEE Fellow and a SIAM Fellow.

Xunyu Zhou received his PhD in Operations Research and Control Theory from Fudan University in 1989.

Keynote Speaker

Excursion Risk: A New Approach to the Analysis of Dynamic Trading Strategies

Prof. Rama Cont, University of Oxford

15:20 – 16:20, 20 May 2023



Rama Cont is Professor of Mathematics and Chair of Mathematical Finance at the University of Oxford and Senior Research Fellow at the Institute for New Economic Thinking.

Rama Cont's research focuses on stochastic analysis, stochastic processes and mathematical modeling in finance, in particular the modeling of extreme market risks, liquidity risk and systemic risk and pathwise approaches in stochastic analysis. He has co-authored more than 80 research publications, including the widely cited monograph *Financial Modelling with Jump Processes* (2003).

He was the founding director of the Columbia Centre for Financial Engineering and founding director of the CFM-Imperial Institute of Quantitative Finance from 2014 to 2018.

Prof. Cont was awarded the Louis Bachelier Prize by the French Academy of Sciences in 2010 for his research on mathematical modeling in finance and the Royal Society Award for Excellence in Interdisciplinary Research in 2017 for his work on systemic risk modelling. He was elected Fellow of the Society for Industrial and Applied Mathematics (SIAM) in 2017 for his 'contributions to stochastic analysis and mathematical modeling in finance.'

Keynote Speaker

Dealer Intermediation Capacity and US Treasury Market Functionality

Prof. Darrell Duffie, Stanford University

13:00 – 14:00, 21 May 2023



Darrell Duffie is the Adams Distinguished Professor of Management and Professor of Finance at Stanford University's Graduate School of Business. He is also Professor (by courtesy) in the Department of Economics, Senior Fellow of the Stanford Institute for Economic Policy Institute, and Senior Fellow (by courtesy) of the Hoover Institution at Stanford University.

Duffie is a Fellow of the Econometric Society, a Research Associate of the National Bureau of Economic Research, and a Fellow of the American Academy of Arts and Sciences. He was the 2009 president of the American Finance Association. From 2008 to 2018, Duffie was a member of the board of directors of Moody's Corporation. He currently serves as an independent member of the shareholder board of Dimensional Funds. From 2013-2017, Duffie chaired the Financial Stability Board's Market Participants Group on Reference Rate Reform. He served as project advisor to the G30 Working Group on Digital Currencies. With Dr. Elizabeth Economy, he co-directs the Hoover Institution Working Group on China's Digital Currency and Electronic Payment System. Duffie chairs the International Advisory Panel of Risk Management Institute, National University of Singapore, and is a Senior Fellow of the Asian Bureau of Finance and Economics Research.

Duffie's research focus is the design and regulation of financial markets. His books include *How Big Banks Fail* (Princeton University Press, 2010), *Measuring Corporate Default Risk* (Oxford University Press, 2011), *Dark Markets: Asset Pricing and Information Transmission in Over-the-Counter Markets*, (Princeton University Press, 2012), and *Fragmenting Markets, Post-Crisis Bank Regulations and Financial Market Liquidity* (de Gruyter, forthcoming).