SoFiE Summer School, Chicago

Machine Learning and Finance: The New Empirical Asset Pricing

PROGRAM

July 23, 2018 (noon) - July 27, 2018 (noon)

University of Chicago Campus, Chicago, IL

Saieh Hall (SHFE 021), 5757 S. University Ave., Chicago, IL 60637

Monday, July 23

Monday Morning (optional)

- Registration begins at 9 am and goes all the way through 1:30 pm
- University of Chicago Campus tour (Sign up required. Space is limited)

Tour departs from the Admission Building, in the Main Quadrangle. Please stop by SHFE 021 to register first.

Monday Afternoon

Lectures by Bryan Kelly, Professor of Finance, Yale School of Management, and AQR Capital Management, and Dacheng Xiu, Professor of Econometrics and Statistics, and Charles E. Merrill Faculty Scholar, University of Chicago Booth School of Business

- Overview of Asset Pricing: The canonical empirical problems. The motivating economic questions. A brief history of empirical findings.
- Overview of Machine Learning: What is it? Is it appropriate for asset pricing? How does asset pricing differ from domains in which ML has demonstrated success?

Monday Evening

Reception at the Logan Center, 915 E. 60th Street, Chicago (Optional and open to all - No registration required)
Tuesday, July 24

Tuesday Morning
Lectures - Bryan Kelly and Dacheng Xiu


Tuesday Lunchtime
Keynote Speaker - Li Deng, Citadel

Tuesday Afternoon
Rohit Allena, Emory University
- Comparing Asset Pricing Models with Traded and Non-Traded Factors

Chuck Boyer, University of Chicago
- Public Pensions, Political Economy and State Government Debt Yield Spreads

Eugenio Carnemolla, Swiss Finance Institute & University of Lausanne
Giuseppe Vinci, Rice University
- Climate Risks and Stock Returns

Carter Davis, University of Chicago
- Predictable Downturns

Tuesday Evening
Architectural Boat Tour on the Chicago River (Sign up required. Space is limited)
The Chicago Architecture Foundation River Cruise is a must for out-of-towners and Chicagoans alike. You’ll find out how Chicago grew from a small settlement into one of the world’s largest cities in less than 100 years.
Wednesday, July 25

Wednesday Morning
Keynote Speaker - Cam Harvey, Duke University Fuqua School of Business

Lecture, Bryan Kelly and Dacheng Xiu

Wednesday Lunchtime
Keynote Speaker - Allan Timmermann, University of California Rady School of Management, San Diego

Wednesday Afternoon
Lecture, Bryan Kelly and Dacheng Xiu

Victor Duarte, Federal Reserve Bank of Dallas
- Sectoral Reallocation and Endogenous Risk-Aversion: Solving Macro-Finance Models with Machine Learning

Maziar Kazemi, Massachusetts Institute of Technology
- An Information-Theoretic Approach to Estimating Risk Premia

Chandra Sekhar Mangipudi, Emory University
- What do Fund Flows Reveal About Asset Pricing Models and Investor Sophistication?

Alberto Martin Utrera, Lancaster University
- A Portfolio Perspective on the Multitude of Firm Characteristics
Thursday, July 26

Thursday Morning
Lectures - Bryan Kelly and Dacheng Xiu


Thursday Lunch
Lecture - Asaf Manela, Professor of Finance, Washington University Olin Business School, Saint Louis

Thursday Afternoon
Valentina Raponi, Imperial College Business School
- Testing Beta-Pricing Models Using Large Cross-Sections

Paula Mirela Sandulescu, USI Logano & Swiss Finance Institute
- Model-Free International Stochastic Discount Factors

Paul Sangrey, University of Pennsylvania
- Jumps, Realized Densities, and News Premia

Cisil Sarisoy, Northwestern University
- Linear Factor Models and the Estimation of Expected Returns

Jinfei Sheng, University of California Irvine
- Asset Pricing in the Information Age: Employee Expectations and Stock Returns

Thursday Evening
Downtown Chicago Walking Tour: When Art Slams Into Science (Registration required - Space is limited)
Is architecture a science? Or is it an art? We’ll discuss this question as we gaze up at Chicago’s best skyscrapers and talk about how architecture walks the perfect line between the left brain and the right brain. We’ll also talk about the fire and Mrs. O’Leary’s cow, peer at Tiffany glass and see one of Chicago’s prettiest historic hotels.

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Friday, July 27

Friday Morning
Lecture, Bryan Kelly and Dacheng Xiu
  ● Inference in machine learning.

Ruoxuan Xiong, Stanford University
  ● *Interpretable Proximate Factors for Large Dimensions*

Nancy Xu, Columbia University & Boston College
  ● *The Time Variation in Risk Appetite and Uncertainty*

Friday Lunch
Keynote Speaker - [Nick Polson](http://www.stevanovichcenter.uchicago.edu), Professor of Econometrics and Statistics, University of Chicago Booth School of Business