The Knut Wicksell Conference
Asset Pricing in the 2020's

JANUARY 17, 2020, LUND, SWEDEN

ABOUT THE CONFERENCE

Lund University celebrates the start of the new decade by inviting both academics and the industry to a one-day conference on **Asset Allocation and Asset Pricing in 2020's: Implementation of Machine Learning and Artificial Intelligence.** The implementation and application of artificial intelligence and machine learning methods is a growing area within the financial industry and financial research.

We have invited keynote speakers, leading experts with experience of implementing advanced econometrical and statistical methods within the fields of machine learning, artificial intelligence and pattern recognition applied on trading, hedge funds, asset management as well as management of life insurance assets.

We invite you to join us, in Lund, on the **January 17, 2020** to listen to our keynote speaker and participate in the Knut Wicksell Conference on:

Asset Allocation and Asset Pricing in 2020's: Implementation of Machine Learning and Artificial Intelligence.

The topics covered should be attractive to professionals within the financial industry focusing on financial implementations and academia focusing on empirical financial research.

SPEAKERS

Keynote Speakers:

Prof. John Mulvey, *Princeton University*
Prof. Petter Kolm, *New York University*
Dr. Tobias Rydén, *Lynx Asset Management*
Dr. Peter Nystrup, *Lund University*

Moderators:

Dr. Andreas Graflund, KWC, *Lund University*
Dr. Peter Nystrup, LTH, *Lund University*

CONFERENCE DETAILS

Who should attend:	Researchers and professionals within academia and the financial industry
When:	**January 17, 2020**
Duration:	09:00- 18:00, Dinner 19:00
Where:	**Grand Hotel, Bantorget 1, 222 29 Lund, Sweden**
Sign up:	Latest by **December 10, 2019**
Contact info:	**Mrs. Marie Pihl**
	email: marie.pihl@nek.lu.se

The conference is a cooperation between Knut Wicksell Centre for Financial Research, Lund School of Technology, School of Economics and Management, Lund University

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FRIDAY, JANUARY 17: PROGRAM

09:00 – 09:30	Coffee and registration (**Grand Hotel, Bantorget 1, Lund**)
09:30 – 09:40	Opening remarks **Dr. Andreas Graflund**, *KWC* & **Dr. Peter Nystrup**, *LTH, Lund University*
Morning session:	
09:40 – 10:40	Keynote address: **Machine Learning in the Hedge Fund Industry: A Managed Futures Perspective** **Dr. Tobias Rydén,** *Lynx Asset Management, Sweden*
10:40 – 11:00	Coffee break
11:00 – 12:00	Keynote address: **Asset Allocation and Regime Shifts** **Dr. Peter Nystrup,** *Lund University, Sweden*
12:00 – 13:00	Lunch at Grand Hotel
Afternoon session:	
13:00 – 14:00	Keynote address: **The Evolution of Asset Allocation and Goal-Driven Investing** **Prof. John Mulvey**, *Princeton University, USA*
14:00 – 14:15	Break
14:15 – 14:45	**Machine Learning for Regime Detection and Risk Prediction** **Mr. David Jönsson** and **Mr. Henrik Jönsson**, *BetterWealth, Sweden*
14:45 – 15:15	Coffee break
15:15 – 15:45	**Three Interfaces Between NLP and Asset Allocation** **Dr. Frank Xing**, *Nanyang Technological University, Singapore*
15:45 – 16:00	Break
16:00 – 16:30	**CenturyOne: A Reinforcement Learning Strategy for the FX-market** **Mr. Hugo Langéen**, *Century Analytics, Sweden*
16:30 – 16:45	Break
Evening session:	
16:45 – 17:45	Keynote address: **Option Hedging using Reinforcement Learning** **Prof. Petter Kolm**, *New York University, USA*
17:45 – 18:00	Closing remarks **Dr. Andreas Graflund**, *KWC* & **Dr. Peter Nystrup**, *LTH, Lund University*
19:00	Dinner at Grand Hotel

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KEYNOTE SPEAKERS

Petter Kolm

Petter N. Kolm is the Director of the Mathematics in Finance Master's Program and Clinical Professor at the Courant Institute of Mathematical Sciences, New York University. Previously, Petter worked at Goldman Sachs Asset Management where his responsibilities included researching and developing new quantitative investment strategies. Petter has coauthored many articles and books on quantitative finance and financial data science and financial data science, serves on several editorial boards for academic journals, professional associations, and company advisory boards. He holds a Ph.D. in Mathematics from Yale, an M.Phil. in Applied Mathematics from the Royal Institute of Technology, and an M.S. in Mathematics from ETH Zurich. Petter's work and research interests include alternative data, data science, econometrics, forecasting models, high-frequency trading, machine learning, portfolio optimization w/transaction costs and taxes, quantitative and systematic trading, risk management, robo-advisory and investing, smart beta strategies, transaction costs, and tax-aware investing.

John Mulvey

John M. Mulvey is a Professor at Princeton University. He is a (founding) member of Princeton's Bendheim Center for Finance and the Center for Statistics and Machine Learning. His specialty is financial optimization and dynamic investment strategies. For almost 40 years, he has implemented asset-liability management systems for numerous organizations, including PIMCO, Towers Perrin/Tillinghast, AXA, Siemens, Munich Re-Insurance, Renaissance Re-Insurance, and numerous hedge funds. His current research addresses regime identification and factor approaches for long-term investors, including family offices and pension plans, with an emphasis on optimizing performance and protecting investor wealth (and surplus/goal wealth). He has published over 150 articles and edited five books, including the first paper on a fully-integrated advisor system for individual investors.

Peter Nystrup

Peter Nystrup is a Postdoctoral Fellow in the Division of Mathematical Statistics at Lund University and in the Department of Applied Mathematics and Computer Science at the Technical University of Denmark. He is also the Head of Research at startup quant hedge fund Annox. He has previously been a Visiting Researcher at Stanford and New York University and has worked in equity sales at Nordea Markets, at Danish pension fund Sampension, and as an external consultant on advanced analytics at the energy company Ørsted. Peter earned his B.Sc. in Engineering degree in Mathematics and Technology from the Technical University of Denmark (DTU) in 2012, followed by a M.Sc. (Hons.) in Engineering degree in Mathematical Modeling and Computation in 2014, and the Ph.D. degree in Engineering in 2018. His research has been published in leading journals covering topics from quantitative finance and portfolio management to forecasting, optimization, and operations research.

Tobias Rydén

Tobias Rydén joined Lynx Asset Management in 2012 and is currently a Principal Quantitative Researcher and Portfolio Manager of the Lynx Active Balanced Fund. He was previously a Professor of Mathematical Statistics at Lund University (2000-2009) and at the KTH Royal Institute of Technology (2010-2012). His academic research lies within the areas of applied probability and statistics, in particular statistical inference in hidden Markov models and other stochastic processes. He has published more than 50 papers in international scientific journals, and co-authored the research monography "Inference in Hidden Markov Models". He holds an MSc in Computer Science and Engineering and a Ph.D. in Mathematical Statistics, both from Lund University, and a Financial Analyst Diploma from the Stockholm School of Economics Executive Education.

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SPEAKERS

David Jönsson

David Jönsson is Co-founder and Chief Operating Officer at BetterWealth. David have previously worked At Danske Capital as portfolio analyst and have long experiences of asset allocation and private banking. David is currently head of advice and products at BetterWealth and leading the development of wealth offerings to retail customers. David holds a Master degree from Lund University where he studied Econometrics and Economics. BetterWealth is a digital financial advisor (robo-advisor). BetterWealth's mission is to revolutionize the investment offering for retail clients through AI-powered risk managed portfolios that dynamically adopt to different market environments.

Henrik Jönsson

Henrik Jönsson, is Co-founder and Chief Investment Officer at BetterWealth. Henrik has a long background in quantitative investments, data science and risk management. He currently serves as the chief investment officer at BetterWealth where he is leading an investment team of PhDs and Postdocs from Oxford and Lund University. Prior to BetterWealth, Henrik worked several years with systematic investments at BlackRock London. Henrik graduated top of his class at the London School of Economics from where he holds MSc degree in Financial Mathematics. He also holds a degree from Lund University where he studied Industrial Engineering and Management.

Frank Xing

Frank obtained a PhD from Nanyang Technological University in 2019, a BSc in Information Management and a BA in Economics from Peking University in 2015. His research interests span statistical natural language processing and sentiment analysis and their application to financial forecasting and optimization. What he is mostly known for are the concepts of "market views" and "semantic vines". His recent survey on natural language based financial forecasting (NLFF) has already attracted much attention in the research community of AI for finance.

Hugo Langéen

Hugo Langéen is Portfolio Manager and Co-founder of Century Analytics AB. Previously he traded currencies in his private portfolio and has been working closely with leading trading specialists during the last 10 years. Prior to this he was one of the world's most renowned online poker players, specializing in big data – and behavioural analysis. Hugo has also been working as an alternate solo bassoon player in the Malmö Opera Orchestra. Century Analytics is one of the pioneers in AI-driven asset management, where self-learning algorithms takes all investment decisions. As an alternative investment fund manager (AIFM), authorised and regulated by the Swedish Fiscal Supervisory Authority, Century Analytics launched the AI-driven currency fund CenturyOne the 14th of October 2019.

MODERATOR

Andreas Graflund

Andreas Graflund is the CEO of GrafCap AB, a financial consulting firm. Andreas has a Ph.D. in Finance from Lund University, and holds a Certificate of Quantitative Finance. He is an experienced financial expert on translating complex financial topics into practical structured solutions with a strong focus on business implementation. Andreas has 17 years' working experience covering institutional clients within the fields of Asset Liability Management, asset allocation, portfolio and risk management and financial regulation from Nordea Asset Management, Sparinvest, Nykredit Markets, Deloitte Nordic and Director of External Partners at the Knut Wicksell Centre for Financial Research (KWC) at Lund University. His published research covers dynamic allocation strategies.