

#### **SPEAKERS**

- Iuliia Shpak: Quant Strategies Specialist, Sarasin & Partners LLP
- Tony Guida: Executive Director Senior Quant Research, RAM Active Investments
- Daniel Rosengarten: Head of ALM Quantitative Development, Barclays Investment
- Vladimir Piterbarg: MD, Head of Quantitative Analytics and Quantitative Development, **NatWest Markets**
- Youssef Elouerkhaoui, Managing Director, Head of Credit Derivatives, CITI
- David Jessop: Global Head of Quantitative Research, UBS Investment Bank
- Ivan Zhdankin: Associate, Quantitative Analyst, JPMorgan Chase & Co
- Alexander Tsyplikhin: Senior Al Engineer, Graphcore
- Andrea Nardon: Partner, Head of Quant, Sarasin & Partners
- Harsh Prasad: Vice President, Morgan Stanley
- Miquel Noguer Alonso: Co-Founder and Chief Science Officer, Artificial Intelligence Finance Institute (AIFI)
- Georgios Papaioannou: Trading Strategist, Bank of America Merrill Lynch
- Alexander Denev: Head of Al, Financial Services Advisory, Deloitte
- Priti Sinha: Head of SAF Analytics, NatWest Markets
- Andrés Berenquer Alonso: Market Risk Director, Derivative Valuations Area, Santander
- Thiyagu Dhandapani: Quantitative Analyst, ABN AMRO CLEARING Bank
- Mariano Zeron: Head of Research and Development, MoCaX Intelligence
- Michael E. Bryant: Chairman of the Board Quant Prophets & (former Chairman of the **Board World Blockchain Foundation (.Net)**
- Jörg Kienitz: Partner, Quaternion Risk Management
- Saeed Amen: Founder, Cuemacro
- Arun Verma: Quantitative Research Solutions, Bloomberg, LP
- Nikolai Nowaczyk: Senior Consultant, Quaternion Risk Management

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## **CONFERENCE OVERVIEW**

#### LOCATION:

Level39 One Canada Square Canary Wharf London F14 5AB

Website: www.level39.co

#### **WEDNESDAY 25TH MARCH:**

#### PRE-CONFERENCE WORKSHOP DAY

FROM MACHINE LEARNING TO ARTIFICIAL INTELLIGENCE IN FINANCE.

by Miguel Noguer Alonso: Co-Founder and Chief Science Officer, Artificial Intelligence Finance Institute (AIFI)

#### **THURSDAY 26TH MARCH:**

#### MAIN CONFERENCE, DAY ONE

The 4th Machine Learning & Al In Quantitative Finance Conference

#### FRIDAY 27TH MARCH:

#### MAIN CONFERENCE, DAY TWO

The 4th Machine Learning & Al In Quantitative Finance Conference

#### **CONFERENCE BOOKINGS - DISCOUNT STRUCTURE:**

- Super Early Bird Discount: 25% until 7th February
- Early Bird Discount: 15% until 6th March
- Main Conference & Workshop (£300 Discount)
- SPECIAL OFFER: When 2 colleagues attend the 3rd goes free!
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#### **CPD CERTIFICATION**



You will be able to receive up to 18.5 CPD points (18 hours and 15 minutes of structured CPD) for attending this event

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#### **IMPORTANT NOTES:**

The conference files will be made available for download via a password protected website before the event. Please print out each presentation if you wish to have hard copies before the conference and bring them with you.

Wi-Fi access will be also available at the venue to view presentations on laptops and mobile devices.

### PRE-CONFERENCE WORKSHOP: WEDNESDAY 25TH MARCH

DAY SCHEDULE: 09:00 - 17:30 BREAK: 10:30 - 11:00 / LUNCH: 12:30 - 13:30 / BREAK: 15:15 - 15:30

# FROM MACHINE LEARNING TO ARTIFICIAL INTELLIGENCE IN FINANCE by Miquel Noguer Alonso: Co-Founder and Chief Science Officer, Artificial Intelligence Finance Institute (AIFI)

#### **WORKSHOP OUTLINE:**

Finance Practitioners and Machine Learners will learn ML techniques in Finance and Implementation of ML projects in Finance. We will cover the most relevant ML and Al Algorithms.

An excellent blend of mathematics, financial intuition and Python to learn Machine and Artificial Intelligence in Finance.

#### **Quantitative Finance**

- Review Quantitative Finance
- Alternative data

#### Machine Learning Modeling

- Intro
- Mathematics of Machine Learning
- Machine Learning Modeling Framework
- Performance Metrics
- Model Selection
- Variable Selection
- Model Trade-Offs

#### **Supervised Learning: Classification**

- Logistic and Softmax Regression
- Decision Trees
- Naïve Bayes
- Support Vector Machines
- Linear and Quadratic Discriminant Analysis

#### **Ensembles**

- Definitions
- Bagging and Boosting
- Random Forest
- Adaboost, Xg Boost

#### **Supervised Learning: Regressions**

- Linear Regression
- Modern Linear regressions
- Non linear Regressions
- Neural Networks

#### **Unsupervised Learning**

- Clustering
- PCA

#### **Deep Learning**

- Deep Learning definitions
- Recurrent Neural Networks
- Auto-Encoders
- Long Short Term Memory Networks

#### **Reinforcement Learning**

- Reinforcement Learning Definitions
- Inverse Reinforcement Learning

#### **Natural Language Processing**

- NLP definitions
- Sentiment Analysis
- NLTK

#### **Applications**

- Interest Rate Modeling
- Stock Picking
- Credit Applications
- Option Pricing
- High Frequency Trading

#### **Python Notebooks**

#### 08:00 - 09:00 REGISTRATION AND MORNING WELCOME COFFEE

#### 09:00 - 09:45 OUR EXPERIENCE DEPLOYING TRADING STRATEGIES USING MACHINE LEARNING

Presenter: Andrea Nardon: Partner, Head of Quant, Sarasin & Partners

#### 09:45 - 10:45 MACHINE LEARNING, AI & QUANTUM COMPUTING IN QUANTITATIVE FINANCE PANEL

- What is the current state of utilisation of machine learning in finance?
- What are the distinct features of machine learning problems in finance compared to other industries?
- What are the best practices to overcome these difficulties?
- What's the evolution of a team using machine learning in terms of day to day operations?
  - Are we becoming more software engineers than quants?
  - What is a typical front office 'Quant' skillset going to look like in three to five years time?
- How do we deal with model risk in machine learning case?
- How is machine learning expected to be regulated?
  - Is there a way to make it more explainable?
- Where do you think alternative data fits in with the vogue for machine learning?
  - Have you used alternative data?
  - Is it more for buy side or sell side.
- What applications can you list among its successes?
- How much value is it adding over and above the "classical" techniques such as linear regression, convex optimisation, etc.?
- Do you see high-performance computing (HPC) as a major enabler of machine learning?
- What advances in HPC have caused the most progress?
- What do you see as the most important machine learning techniques for the future?
- What are the main pitfalls of using Machine Learning currently in trading strategies?
- What new insights can Machine Learning offer into the analysis of financial time series?
- Discuss the potential of Deep Learning in algorithmic trading?
- Do you think machine learning and HPC will transform finance 5-10 years from now?
  - If so, how do you envisage this transformation?
  - Can you anticipate any pitfalls that we should watch out for.
- Discuss quantum computing in quant finance:
  - Breakthroughs
  - Applications
  - Future uses

#### PANELLISTS:

- Iuliia Shpak: Quant Strategies Specialist, Sarasin & Partners LLP
- Priti Sinha: Head of SAF Analytics, NatWest Markets
- Tony Guida: Executive Director Senior Quant Research, RAM Active Investments
- Miquel Noguer Alonso: Co-Founder and Chief Science Officer, Artificial Intelligence Finance Institute (AIFI)
- Jörg Kienitz: Partner, Quaternion Risk Management
- Vladimir Piterbarg: MD, Head of Quantitative Analytics and Quantitative Development, NatWest Markets
- Alexei Kondratyev: Managing Director, Head of Data Analytics, Standard Chartered Bank

#### DEEP LEARNING & NEURAL NETWORKS STREAM

#### MODELLING TECHNIQUES STREAM

STREAM CHAIR: IULIIA SHPAK:
QUANT STRATEGIES SPECIALIST. SARASIN & PARTNERS LLP

STREAM CHAIR: TONY GUIDA: EXECUTIVE DIRECTOR – SENIOR QUANT RESEARCH, RAM ACTIVE INVESTMENTS

11:15 - 12:00 IMPLEMENTING DEEP LEARNING MODELS

Presenter: Harsh Prasad: Vice President,

Morgan Stanley

11:45 - 12:00 ...LONGER PREDICTION HORIZON FOR ML STOCK'S PREDICTION: COMPARING MODELS AND HORIZON

Presenter: Tony Guida: Executive Director – Senior Quant Research, RAM Active Investments

12:00 - 12:45 LATEST DEVELOPMENTS IN DEEP LEARNING IN FINANCE

Presenter: Miquel Noguer Alonso: Co-Founder and Chief Science Officer, Artificial Intelligence Finance Institute (AIFI)

12:00 - 12:45 MACHINE LEARNING + CHEBYSHEV TECHNIQUES FOR RISK CALCULATIONS: BOOSTING EACH OTHER

The computation of risk metrics poses a huge computational challenge to banks. Many different techniques have been developed and implemented in the last few years to try and tackle the problem. We focus on Chebyshev tensors enhanced by machine learning, showing why they are such powerful pricing approximators in risk calculations. We show how the presented unique mix of techniques can be applied in different calculations. We illustrate with Numerical results obtained in a tier-1 bank internal systems the computational gains these techniques bring to FRTB IMA. In particular, We will give special attention on how to side-step the curse of dimensionality and how machine learning techniques can be used to boost Chebyshev tensors.

Presenter: Mariano Zeron: Head of Research and Development: MoCaX Intelligence

12:45 - 14:00 LUNCH

14:00 - 14:45 DERIVATIVES PRICING WITH A DEEP LEARNING APPROACH

Presenter: Youssef Elouerkhaoui, Managing Director, Head of Credit Derivatives, CITI 14:00 - 14:45 TOPIC TO BE CONFIRMED

Presenter: Jos Gheerardyn: Co-Founder and CEO, Yields.io

#### DEEP LEARNING & NEURAL NETWORKS STREAM

#### **MODELLING TECHNIQUES STREAM**

# 14:45 - 15:30 ASYMPTOTICS CONTROL IN THE NEURAL NETWORK

- Kolmogorov-Arnold Theorem and asymptotics
- Control variate functions with the right asymptotics
- Neural networks with zero asymptotics
- Numerical experiments

Presenter: Vladimir Piterbarg: MD, Head of Quantitative Analytics and Quantitative Development, NatWest Markets

# 14:45 - 15:30 EXPLAINING MACHINE LEARNING MODELS

- What do we mean by "explaining" a model?
- Random forests tell us what's important, but they don't tell us why.
- Local and global approaches to model explainability
- Should one simplify a model to make it more explainable?

Presenter: David Jessop: Global Head of Quantitative Research, UBS Investment Bank Development,

#### 15:30 - 16:00 AFTERNOON BREAK AND NETWORKING OPPORTUNITIES

16:00 - 16:45 PREDICTING IMPLIED VOLATILITY CHANGES IN THE INDEX OPTIONS BASED ON INDEX'S RETURN (DEEP LEARNING AND GRADIENT BOOSTING METHOD)

Presenter: Thiyagu Dhandapani: Quantitative Analyst, ABN AMRO CLEARING Bank

# 16:00 - 16:45 ACCELERATE YOUR AI MODELLING WITH IPUS

In the finance sector, the potential for innovation with advanced machine intelligence is significant. But often, new and complex models are not being fully leveraged due to latency issues and compute restraints. Enter the IPU – a completely new processing architecture designed for machine intelligence, capable of running advanced financial models up to 26x faster. Graphcore's Alex Tsyplikhin explains how the IPU's unique architecture can power such incredible breakthroughs – and what this means for the future of finance and trading.

#### What you'll learn:

- How the IPU is able to achieve faster financial model accelerations than other hardware available on the market
- How to use IPUs for financial modelling training and inference
- Insights into advanced models, use cases and IPU benchmarks

Presenter: Alexander Tsyplikhin: Senior Al Engineer, Graphcore

#### DEEP LEARNING & NEURAL NETWORKS STREAM

#### **MODELLING TECHNIQUES STREAM**

# 16:45 - 17:30 QUANTUM COMPUTING AND QUANTUM MACHINE LEARNING: QUANT FINANCE PERSPECTIVE

- Computation: Classical versus quantum logic gates
- Why quantum computing is more powerful
- Quantum Neural Network (QNN)
- Born Machine and Boltzmann Machine
- Quantum machine learning in practice

Presenter: Alexei Kondratyev: Managing Director, Head of Data Analytics, Standard Chartered Bank

# 16:45 - 17:30 MODEL SELECTION & VALIDATION FOR NEURAL NETWORKS

- Introduction to Model Validation
- Key Aspects of Model Validation for ML
- Model Selection
- Network types
- Network Topologies
- Comparison for different models
- Conclusions

Presenter: Jörg Kienitz: Partner, Quaternion Risk Management

#### 08:30 - 09:00 MORNING WELCOME COFFEE

# 09:00 – 09:45 CHALLENGES FACED WHEN DEALING WITH ALTERNATIVE DATA: AN EFFICIENT TIME SERIES AND DATA PROXY ANALYSIS

- · Machine Learning on time series, global approach for market data and numerical alternative data
- Innovation in risk management: An effective approach to enterprise data quality management
- How to use data to build effective models?
- Exploring survivorship bias, non-stationarity, and noise to signal ratio and fixes

Presenter: Andrés Berenguer Alonso: Market Risk Director, Derivative Valuations Area, Santander

# 09:45 – 10:30 FROM BLACK BOX TO GLASS BOX: "BLOCKCHAIN AS A TOOL FOR AI INPUT-OUTPUT RECONCILIATION

From Black Box to Glass Box: High-Speed, Blockchain-Based, Look-Back Analysis as a Tool for Understanding & Trusting Artificial Intelligence Decision Trees in Quantitative Finance.

Presenter: Michael E. Bryant: Chairman of the Board Quant Prophets & (former Chairman of the Board World Blockchain Foundation (.Net)

10:30 – 11:00 MORNING BREAK AND NETWORKING OPPORTUNITIES

#### REINFORCEMENT LEARNING STREAM

#### **ALTERNATIVE DATA STREAM**

STREAM CHAIR:
TO BE CONFIRMED

STREAM CHAIR: SAEED AMEN: FOUNDER, CUEMACRO

# 11:00 - 11:45 REINFORCEMENT LEARNING FOR XVA HEDGING

Presenter: Ivan Zhdankin: Associate, Quantitative Analyst, JPMorgan Chase & Co

#### 11:00 - 11:45 THE BOOK OF ALTERNATIVE DATA

In this talk, we give a sneak peek of The Book of Alternative Data, which is to be published in early 2020.

We briefly discuss some of the challenges when using alternative such as structuring it and quantifying its value, as well as the risks involved.

We talk about some of the risks associated with alternative data and how to mitigate them

We'll go through a few of the use cases from book.

These include satellite imagery to model retailers earnings per share and news data to understand FX volatility around central bank meetings.

Presenter: Saeed Amen: Founder, Cuemacro

#### REINFORCEMENT LEARNING STREAM

#### **ALTERNATIVE DATA STREAM**

#### 11:45 - 12:30 TOPIC TO BE CONFIRMED

Presenter: Georgios Papaioannou: Trading Strategist, Bank of America Merrill Lynch

# 11:45 - 12:30 ASSET PRICING & FACTOR INVESTING AND USING ALTERNATIVE DATA AND MACHINE LEARNING

Abstract: To gain an edge in the markets quantitative hedge fund managers require automated processing to quickly extract actionable information from unstructured and increasingly non-traditional sources of data. The nature of these "alternative data" sources presents challenges that are comfortably addressed through Machine Learning techniques. We illustrate use of Al and ML techniques that help extract derived signals that have significant risk premium and lead to profitable trading strategies.

This talk will cover the following topics:

- The broad application of machine learning in finance
- Extracting sentiment from textual data such as news stories and social media content using machine learning algorithms, filter sentiment using topics mentioned in the stories to fine tune the trading signal.
- Construction of scoring models and factors from complex data sets such as supply chain network, options prices and ESG (Environmental, Social and Governance)
- Use of Alternative data such as extreme weather (Cyclone, Snowfall) to quantify impact on companies that own retail stores and factories (geolocational).
- Machine Learning techniques for asset pricing, e.g. learning the complex quant models (PDE, monte carlo) via machine learning approach for an efficient pricing of derivative securities.

Presenter: Arun Verma: Quantitative Research Solutions, Bloomberg, LP

12:30 - 13:30 LUNCH

13:30 - 14:15 DEEP EXECUTION REINFORCEMENT LEARNING AND GENERATIVE
MODELS IN ALGO TRADING

Presenter: To be confirmed

13:30 - 14:15 APPLYING UNSUPERVISED LEARNING TO TRADE DATA

Presenter: To be confirmed

#### REINFORCEMENT LEARNING STREAM

#### **ALTERNATIVE DATA STREAM**

14:15 - 15:00 BREAKTHROUGHS IN REINFORCEMENT LEARNING ON QUANTITATIVE TRADING

Presenter: Daniel Rosengarten: Head of ALM Quantitative Development, Barclays Investment Bank

# 14:15 - 15:00 PORTFOLIO OPTIMIZATION FOR TRADERS AND RISK MANAGERS

- Portfolio optimization from a risk management point of view
- Eligible risk optimization strategies
- Optimization metaheuristics and evolutionary algorithms
- Application to simple and real test cases

#### Abstract

We face up to the portfolio optimization problem from a trading and risk management point of view. Given a generic portfolio of financial instruments, we look for optimal trading strategies based on eligible liquid market instruments able to optimize risk and return figures, respecting both trader view on future market scenarios and risk management constraints. We use global stochastic optimization metaheuristics based on different evolutionary algorithms, possibly supervised by machine learning techniques to reduce the computational effort. We apply our approach to both simplified and realistic trading portfolios including many different financial instruments, finding that appropriate tuning of the optimization's parameters allows to find interesting and viable optimization strategies.

Presenters: Marco Bianchetti: Head of Fair Value Policy and Marco Scaringi: Quant Risk Analyst, Fair Value Policy Office, Intesa Sanpaolo

#### 15:00 - 15:15 AFTERNOON BREAK AND NETWORKING OPPORTUNITIES

15:15 - 16:00 AI RISKS IN FINANCE - IS IT TOO EARLY TO BE CONCERNED?

Presenter: Alexander Denev: Head of AI, Financial Services Advisory, Deloitte

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Both through regulation and industry practice, there is an increasing number of risk calculations that need to be done on a regular basis. These calculations require the valuation of portfolios on up to hundredths of thousands of scenarios making them computationally very expensive in time and cost.

MoCaX technology, based on Chebyshev Spectral Decomposition methods, is a methodology and software application which massively reduces the computational burden in a risk calculation. This is achieved by pricing the portfolio on very small number of predefined collection of points yielding an object capable of approximating a pricing function and its greeks to a very high degree of accuracy. The object can then be evaluated on thousands of risk scenarios in an ultra-efficient and numerically stable manner.

Several benefits are obtained with this technology. Applications include Market Risk VaR, IMA-FRTB, Dynamic Initial Margin for MVA and IMM, Exposure profiles for CVA and IMM, what-if analysis tools, etc.

mocaxintelligence.com | i.ruiz@iruiztechnologies.com



Yields.io is the first FinTech platform that uses Al for real-time model risk management on an enterprise-wide scale.

Our clients use our solution to speed up model validation tasks, to generate regulatory compliant documentation and to industrialize model monitoring. The platform works with all models that are used within the financial sector such as credit risk models, valuation algorithms, market risk, AML, AI and behavioural models.

Yields.io was founded by Jos Gheerardyn and Sébastien Viguié. The company is expanding quickly and has offices in Brussels and London. Yields.io has an international portfolio of clients with both investment banks as well as regional financial institutions.

<u>yields.io</u>

#### **GRAPHCORE**

Graphcore has created a completely new processor, the Intelligence Processing Unit (IPU), specifically designed for machine intelligence. The IPU's unique architecture means developers can run current machine learning models orders of magnitude faster. More importantly, it lets AI researchers undertake entirely new types of work, not possible using current technologies, to drive the next great breakthroughs in general machine intelligence.

We believe our IPU technology will become the worldwide standard for machine intelligence compute. The performance of Graphcore's IPU is going to be transformative across all industries and sectors, whether you are a medical researcher, roboticist or autonomous car manufacturer.

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The Numerical Algorithms Group (NAG) are experts in numerical algorithms, software engineering and high-performance computing. They have served the finance industry with numerical software and consulting services for over four decades because of their outstanding product quality and technical support. Specifically, relevant to the finance industry, NAG pioneer in the provision of the NAG Library – numerical, machine learning and statistical components ideal for building Quant Libraries, Risk Applications and the like.

NAG also provides best-in-class C++ operator-overloading AD tools for CPU and GPU called dco (derivative computation through overloading) and dco/map (dco meta adjoint programming). The NAG Library and AD tools are used by many of the largest Investment Banks where they are embedded in Quant Libraries and XVA applications. As a not-for-profit company, NAG reinvests surpluses into the research and development of its products, services, staff and its collaborations.

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This course has been designed to empower individuals who work in or are seeking a career in machine learning in finance. Throughout our unique MLI programme, candidates work with hands-on assignments designed to illustrate the algorithms studied and to experience first-hand the practical challenges involved in the design and successful implementation of machine learning models. The MLI is a career-enhancing professional qualification, that can be taken worldwide.

mlinstitute.org



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#### **FLIGHT DETAILS:**

All delegates flying into London on the morning of the event are reminded that they should arrive 30 minutes before the workshop starts for registration. The venue's location is approximately 1 hour from all 3 main London airports, Heathrow, Gatwick and City. Returning flights should equally allow for the events finishing time.

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The discount is available on any day permutation, and can be combined across delegates within the same company (only at the time of booking and not retrospectively).

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