

The background of the top half of the page is a dark blue network graph. It consists of numerous small, light blue circular nodes connected by thin, light blue lines. A few larger, more prominent nodes are highlighted in a bright cyan color. A single, thicker red line is drawn across the graph, connecting several nodes and creating a path through the network.

# Be part of the future of Quantitative Finance

Cohort 2 starts: Tuesday 23rd April 2019



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Join our MLI group on **LinkedIn**

 @MLIcert

# Introduction

Quantitative finance is moving into a new era. Traditional quant skills are no longer adequate to deal with the latest challenges in finance.

The Machine Learning Institute Certificate offers candidates the chance to upgrade their skill set by combining academic rigour with practical industry insight.

The Machine Learning Institute Certificate in Finance (MLI) is a comprehensive six-month part-time course, with weekly live lectures in London or globally online. The MLI is comprised of 2 levels, 6 modules, 24 lecture weeks, lab assignments, a practical final project and a final sit down examination using our global network of examination centres.

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.

## Benefits

### World class professional qualification

- The MLI is a graduate-level professional qualification, internationally renowned and a solid demonstration of individual commitment to career development.

### Qualify from anywhere in the world

- Six-month part-time global programme delivered twice a year.
- All lectures streamed live over the Internet and recorded. Lectures can be viewed at any time.
- Study while working: career-enhancing qualification that can be taken worldwide.

### Practitioner orientated

- The MLI delivers learning of practical value, developed and taught by highly experienced practitioners.

### Expert teaching and support

- The MLI Faculty is an acclaimed team of instructors combining respected academics and renowned practitioners, all specialists in the field of Machine Learning, Data Science and Artificial Intelligence. The Faculty provides mentoring and support during the course.

## Start Date: Tuesday 23rd April 2019

**FORMAT:** 1 live lecture per week over 24 weeks, Approximately 2 hour lecture (streamed live globally).

**TOTAL LEARNING HOURS:** 301

**LOCATION:** Central London / Streamed live globally. Internet-based student-faculty forum and seminars. This is a truly global qualification with weekly world-wide interaction via WebEx during lectures.

All lectures will be recorded and stored in the student's personalised portal.

**MLI LEVELS 1 & 2:** The MLI offers two flexible study options so you can decide how to complete the course:

**FULL COURSE:** Complete the 6 modules in 6 months.

**LEVEL 1 & LEVEL 2** (payable separately).

Complete the 6 modules in 2 x 3 month levels.

# Your MLI Journey

## Apply

Apply online or via the registration form and the Admissions Team will confirm acceptance within 3 working days.

## Prepare

At the start of the certificate programme, candidates are offered intensive preparation which covers the technical foundations required in order to follow and fully benefit from the course lectures. The MLI Python Primers include: Python for Data Science and Artificial Intelligence & Advanced Python Techniques. The MLI Online Resource Library consists of pre-recorded and self-test material.

## Learn

### LAB ASSIGNMENTS:

Throughout the programme, candidates work on 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.

### FINAL EXAMINATION:

Tuesday 26th November 2019. Candidates will sit a formal examination on a laptop. The exam is held in London for UK students and using our global network of examination centres for overseas students.

### FINAL PROJECT:

Friday 3rd January 2020. At the end of the programme, candidates apply the theoretical and practical skills acquired to a real world application within the financial services industry. The assessment will take into account the quality and the originality of the work as well as the clarity of its presentation.



## MODULE ONE

Supervised Learning

## MODULE TWO

Unsupervised Learning

## MODULE THREE

Practitioners Approach to ML

## MODULE FOUR

Neural Networks

## MODULE FIVE

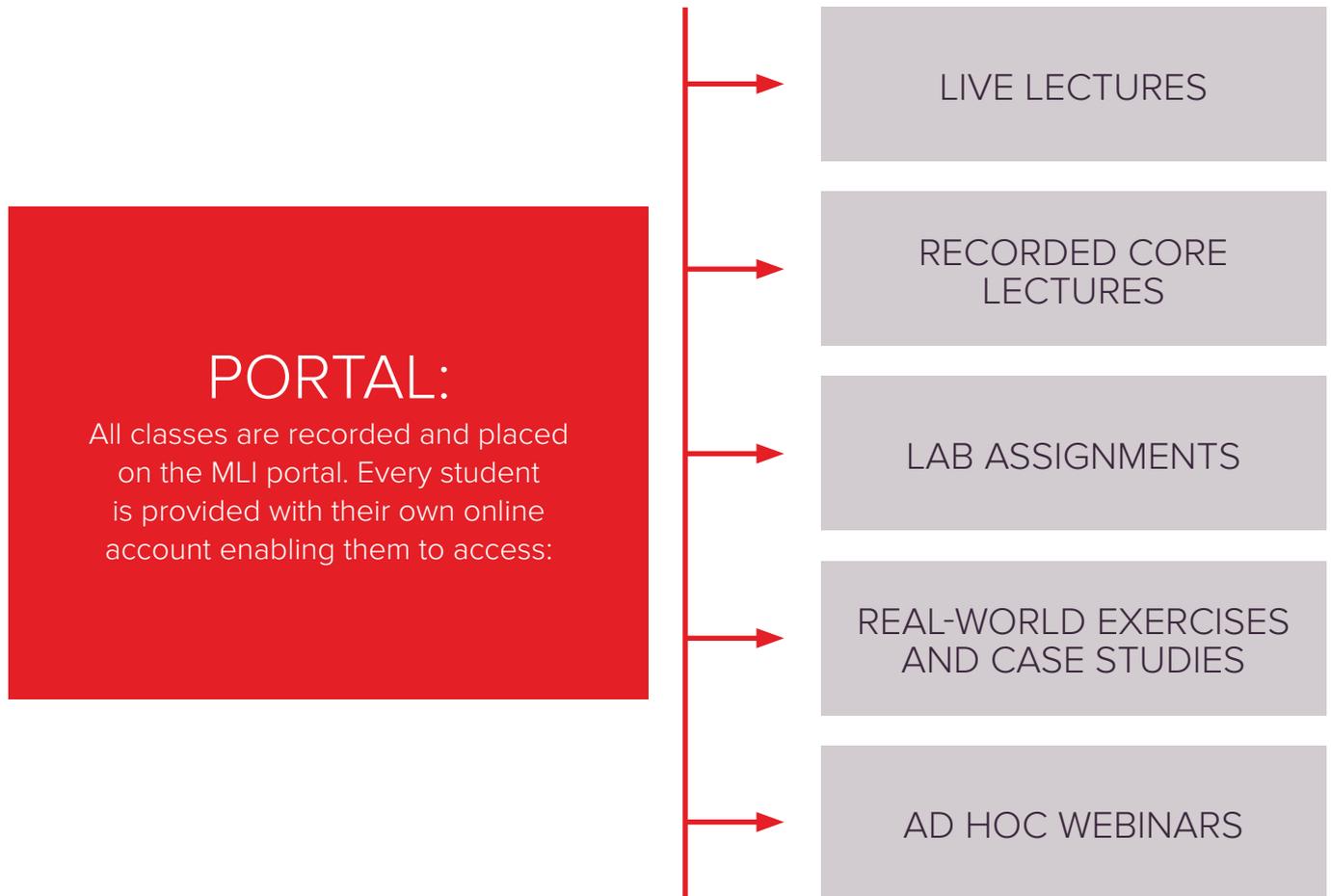
Deep Learning

## MODULE SIX

Practical Applications

# Programme Delivery

The MLI is at the forefront of interactive online learning, which enables students from anywhere in the world to enrol on the programme. We offer a high quality and comprehensive learning portal giving 24-hour access to all the lectures and study materials.



## Student profiles

Quantitative Analysts

IT

Quantitative trading

Insurance

Model validation

Risk management

Equity Traders

High Frequency Traders

## Academic backgrounds

Computing

Mathematics

Physics

Banking and Finance

Engineering

# Course Syllabus

## MLI ONLINE RESOURCE LIBRARY

Prior to the start of the MLI students are given access to our online resource library in preparation for the certificate.

- **Python Primer for Data Science.** Presented by Nikolaos Aletras, Lecturer at The University of Sheffield
- **Python for Data Science and Artificial Intelligence Workshop.** Presented by Paul Bilokon: Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas
- **Maths Primer Refresher Material:** For each topic (Linear Algebra, Optimization, Probability & Statistics), there will be a specific quiz to test initial background knowledge. We recommend that you first attempt answering the quiz exercises without looking at any material.

### Additional MLI Learning Resource:

- **Big Data, High-Frequency Data, and Machine Learning with kdb+/q Workshop.** Presented by Paul Bilokon: Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas.

## PYTHON PRIMERS

- **Python for Data Science and Artificial Intelligence**  
Tuesday 9th April 2019  
Live and Online: 09.00 – 17.00 BST
- **Advanced Python Techniques**  
Tuesday 16th April 2019  
Live and Online: 09.00 – 12.30 BST

## PYTHON FOR DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

- Tuesday 9th April 2019

Python is the de factolingua franca of data science, machine learning, and artificial intelligence. Familiarity with Python is a must for modern data scientists.

Your course is designed to take you from the very foundations to state-of-the-art use of modern Python libraries. You will learn the fundamentals of the Python programming language, play with Jupyter notebooks, proceed to advanced Python language features, learn to use distributed task queues (Celery), learn to work with data using NumPy, SciPy, Matplotlib, and Pandas, examine state-of-the-art machine learning libraries (Scikit-Learn, Keras, TensorFlow, and Theano), and complete a realistic, real-life data science lab.

## SYLLABUS

### The fundamentals of the Python programming language and Jupyter notebooks

- Jupyter notebooks
- The Python syntax
- Data types, duck typing
- Data structures: lists, sets, and dictionaries
- Data types

### Advanced Python features; distributed tasks queues with Celery

- List comprehensions
- Lambdas
- Objects
- The Global Interpreter Lock (GIL)
- Multithreading and multiprocessing
- Distributed task queues with Celery

### Python libraries for working with data: NumPy, SciPy, Matplotlib, and Pandas

- Multidimensional arrays in NumPy
- Linear algebra and optimisation with SciPy
- Data visualisation in Matplotlib
- Time series data
- Dealing with Pandas DataFrames

### Machine Learning with Scikit-Learn; Deep Learning with Keras, TensorFlow, and Theano

- Overview of machine learning
- Introduction to Scikit-Learn
- Keras and TensorFlow
- Introduction to Theano

## ADVANCED PYTHON TECHNIQUES

- Tuesday 16th April 2019

### Advanced Python Features and Putting them to use in Practice.

- Algorithmics and graph theory
- Prime numbers
- Cryptography
- Blockchain

### Distributed Computing with Python

## LEVEL 1 – MACHINE LEARNING INSTITUTE CERTIFICATE IN FINANCE

- **Level 1 Starts:** Tuesday 23rd April 2019

## LAB ASSIGNMENTS

Throughout the programme, candidates work on 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 data sets and problems are selected to be representative of the applications encountered in finance.

## INTRODUCTION WEEK

- **Introduction week:** Tuesday 23rd April

Welcome to the MLI by the Head of Faculty:

- **Paul Bilokon:** Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas
- **Guest Lecturer** introducing current market trends in Machine Learning – *to be confirmed*

## MODULE 1 – SUPERVISED LEARNING

In this module, the concepts related to algorithmically learning from data are introduced. The candidates are given an early taste of a supervised machine learning application before going through the fundamental building blocks starting from linear regression and classification models to kernels and the theory underpinning support vector machines and then to the powerful techniques of ensemble learning.

### Module 1 Faculty:

- **Adriano Soares Koshiyama:** The Alan Turing Institute

The module includes a combination of theoretical and hands-on lab assignments:

Supervised Learning	Learning from Data	30-Apr-19
Supervised Learning	Linear Models	7-May-19
Supervised Learning	Kernel Models	14-May-19
Supervised Learning	Ensemble Learning	21-May-19

Module 1 includes weekly assignments.

## MODULE 2 – UNSUPERVISED LEARNING

An important and challenging type of machine learning problem in finance is learning in the absence of 'supervision', or without labelled examples. In this module, we first introduce the theoretical framework of hidden variable models. This family of models is then used to explore the two important areas of dimensionality reduction and clustering algorithms. There are theoretical and applied lab assignments with financial data sets.

### Module 2 Faculty:

- **Paul Bilokon:** Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas
- **Ivan Zhdankin:** Associate, Quantitative Analyst, JPMorgan Chase & Co

Unsupervised Learning	Introduction	28-May-19
Unsupervised Learning	Dimensionality Reduction	4-Jun-19

Unsupervised Learning	Clustering Algorithms	11-Jun-19
Unsupervised Learning	Applications	18Jun-19

End of Module 2 Assignment.

## MODULE 3 – PRACTITIONERS APPROACH TO ML

This module focuses on the practical challenges faced when deploying machine learning models within a real life context. Each session in this module covers a specific practical problem and provides the candidates with guidance and insight about the way to approach the various steps within the model development cycle, from data collection and examination to model testing and validation and results interpretation and communication.

### Module 3 Faculty:

- **Paul Bilokon:** Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas
- **Ivan Zhdankin:** Associate, Quantitative Analyst, JPMorgan Chase & Co

Practitioner's Approach to ML	Problem Setup and Data Pipeline	25-Jun-19
Practitioner's Approach to ML	Feature Engineering	2-Jul-19
Practitioner's Approach to ML	Exploration, Maximum Value Hypothesis	9-Jul-19
Practitioner's Approach to ML	Model Tuning	16-Jul-19

End of Module 3 Assignment.

# Course Syllabus

## LEVEL 2 – MACHINE LEARNING INSTITUTE CERTIFICATE IN FINANCE

- **Level 2 Starts:** Tuesday 23rd July 2019
- **Examination:** Tuesday 26th November 2019
- **Final Project hand in:** Friday 3rd January 2020

### MODULE 4 – NEURAL NETWORKS

Neural Network models are an important building block to many of the latest impressive machine learning applications on an industrial scale. This module aims to develop a solid understanding of the algorithms and importantly, an appreciation for the main challenges faced in training them. The module starts with the perceptron model, introduces the key technique of backpropagation before exploring the various regularisation and optimisation routines. More advanced concepts are then covered in relation to the next module on Deep Learning.

Although we cover the theoretical foundations of Neural Networks, the emphasis of the assignments will be on hands-on lab work where the candidates are given the opportunity to experiment with the techniques studied on financial and non-financial data sets.

Module 4 Faculty:

- Terry Benzschawel: Founder and Principal, Benzschawel Scientific, LLC
- Alexei Kondratyev: Managing Director, Head of Data Analytics, Standard Chartered Bank

Neural Networks	Perceptron Model	23-Jul-19
Neural Networks	Backpropagation	30-Jul-19
Neural Networks	Regularisation and Optimisation	6-Aug-19
Neural Networks	Network Architectures	3-Sep-19

Module 4 Assignment over summer break.

### MODULE 5 – DEEP LEARNING

Deep Learning has been the driving engine behind many of the recent impressive improvements in the state of the art performance in large scale industrial machine learning applications. This module can be viewed as a natural follow-up from the previous module on Neural Networks. First, the background and motivations for transitioning from traditional networks to deeper architectures are explored. Then the module covers the deep feedforward architecture, regularisation for deep nets, advanced optimisation strategies and the CNN Architecture.

The assignments of this module will be highly practical with ample opportunity to experiment on financial and non-financial data sets and become familiar with the latest open-source deep learning frameworks and tools.

Module 5 Faculty:

- **Harsh Prasad:** Vice President, Morgan Stanley
- **Blanka Horvath:** Assistant Professor, Financial Mathematics King's College London
- **Terry Benzschawel:** Founder and Principal, Benzschawel Scientific, LLC

Deep Learning	Motivation and Examples	10-Sep-19
Deep Learning	Deep Feedforward	17-Sep-19
Deep Learning	Regularisation for Deep Nets	24-Sep-19
Deep Learning	Deep Learning Volatility & Advanced Optimisation Strategies	1-Oct-19

End of Module 5 Assignment.

### MODULE 6 – PRACTICAL APPLICATIONS

In this module, candidates will be exposed to a selection of some of the latest practical machine learning and AI applications relevant to the financial services industry. Financial time series data presents particular challenges when it comes to applying machine learning techniques. The challenges and approaches to deal with them will be covered in this module. Since the lectures are delivered by industry practitioners from leading institutions, the candidates will be encouraged to use the solid technical foundations built throughout the programme to interact and confidently apply and debate the problems and approaches presented.

Module 6 Faculty:

- **Francesca Lazzeri:** Machine Learning Scientist, Microsoft
- **Terry Benzschawel:** Founder and Principal, Benzschawel Scientific, LLC

Practical Applications	Financial Time Series Data	8-Oct-19
Practical Applications	Overfitting, Data Snooping, and Refresh	15-Oct-19

Practical Applications	Natural Language Processing to Predict Bond Prices	22-Oct-19
Practical Applications	Risk Models for Quant Trading	29-Oct-19

**Module 6 Assignments:**

Please note that the Module 6 practical hands-on assignment will not be marked or count towards the final MLI assessment.

**Risk Models for Quant Trading Assignment:**

“The assignment will amount to running a horserace backtest comparing various risk model constructions discussed in the lecture by using them to optimize quant trading alphas of the student’s choice. To facilitate the completion of the assignment, it will provide links to the source code for the risk model constructions as well as backtesting, which the student can adapt and tweak (in the computer language of his or her choosing) for the purpose of completing the assignment. The student will report and debate the results on the forum of the

horserace backtest (return-on-capital, Sharpe ratio, cents-per-share, etc.) along with the pertinent information (backtesting period used, data source, description of the alphas, etc.)”

**FINAL EXAMINATION**

**Date:** Tuesday 26th November 2019

Candidates will sit a formal 3-hour examination on a laptop. The exam is held in London for UK students and using our global network of examination centres for overseas students.

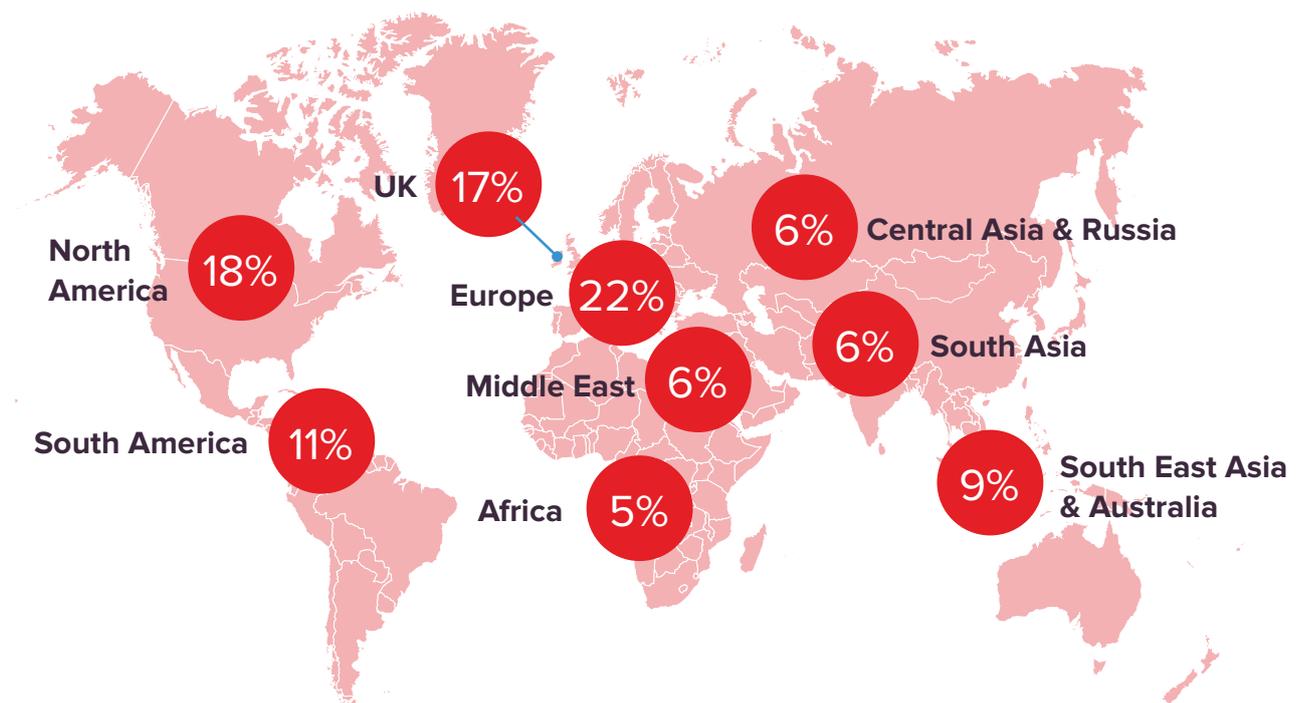
**FINAL PROJECT**

**Date:** Friday 3rd January 2020

At the end of the programme, candidates apply the theoretical and practical skills acquired to a real world application within the financial services industry. The assessment will take into account the quality and the originality of the work as well as the clarity of its presentation.

# Global Profile

## Location of MLI students



# The MLI Faculty

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**Paul Bilokon** *Founder, CEO, Thalesians & Senior Quantitative Consultant, BNP Paribas*

Dr Paul Bilokon is CEO and Founder of Thalesians Ltd and an expert in electronic and algorithmic trading across multiple asset classes, having helped build such businesses at Deutsche Bank and Citigroup. Before focussing on electronic trading, Paul worked on derivatives and has served in quantitative roles at Nomura, Lehman Brothers, and Morgan Stanley. Paul has been educated at Christ Church College, Oxford, and Imperial College.

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**Terry Benzschawel** *Founder and Principal, Benzschawel Scientific, LLC*

The former Managing Director in Citigroup's Institutional Clients Business. Terry headed the Credit Trading Analysis group which develops and implements quantitative tools and strategies for credit market trading and risk management, both for Citi's clients and for in-house applications. Terry received his Ph.D. in Experimental Psychology from Indiana University (1980) and his B.A. (with Distinction) from the University of Wisconsin (1975).

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**Blanka Horvath** *Assistant Professor, Financial Mathematics King's College London*

Blanka is an Honorary Lecturer in the Department of Mathematics at Imperial College London and a Lecturer at King's College London. Her research is in the area of Stochastic Analysis and Mathematical Finance. Her interests include asymptotic and numerical methods for option pricing, smile asymptotics for local- and stochastic volatility models (the SABR model and fractional volatility models in particular), Laplace methods on Wiener space and heat kernel expansions. Blanka completed her PhD in Financial Mathematics at ETH Zürich with Josef Teichmann and Johannes Muhle-Karbe. She holds a Diploma in Mathematics from the University of Bonn and an MSc in Economics from the University of Hong Kong.

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

Alexei is responsible for providing data analytics services to Financial Markets sales and trading. He joined Standard Chartered Bank in 2010 from Barclays Capital where he managed a model development team within Credit Risk Analytics. Prior to joining Barclays Capital in 2004, he was a senior quantitative analyst at Dresdner Bank in Frankfurt. Alexei holds an MSc in Theoretical Nuclear Physics from the University of Kiev and PhD in Mathematical Physics from the Institute for Mathematics, National Academy of Sciences of Ukraine.

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**Francesca Lazzeri** *Machine Learning Scientist, Microsoft*

Francesca Lazzeri is a machine learning scientist on the cloud advocacy team at Microsoft. An expert in big data technology innovations and the applications of machine learning-based solutions to real-world problems, she has worked with these issues in a wide range of industries, including energy, oil and gas, retail, aerospace, healthcare, and professional services. Previously, she was a research fellow in business economics at Harvard Business School, where she performed statistical and econometric analysis within the Technology and Operations Management Unit and worked on multiple patent data-driven projects to investigate and measure the impact of external knowledge networks on companies' competitiveness and innovation.

# The MLI Faculty

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**Harsh Prasad** *Vice President, Morgan Stanley*

Harsh started his career as a programmer working on various search and pattern recognition algorithms including AI techniques, across radio astrophysics, bioinformatics and speech recognition. He then transitioned to the financial risk domain and for the last decade has worked in many regulatory jurisdictions with banks and finance companies as well as consulting firms, focussed on quant modelling and applied Machine Learning techniques.

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**Adriano Soares Koshiyama** *The Alan Turing Institute*

Recently, an intern at the AI Labs in Goldman Sachs, working as a Machine Learning Strats. Nowadays he is part of the Alan Turing Institute as a Enrichment Scheme Student. Its main research topics are related to Data Science, Machine Learning, Statistical Methods, Optimization, and Finance. A PhD Candidate in Computer Science at University College London (UCL) in the topic of Financial Computing and Analytics. Adriano has a Bachelor's Degree in Economics from UFRRJ and a Master's in Electrical Engineering from PUC-Rio.

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**Ivan Zhdankin** *Associate, Quantitative Analyst, JPMorgan Chase & Co*

Ivan Zhdankin is a quantitative researcher with experience in diverse areas of quantitative finance, including risk modelling, XVA, and electronic trading across asset classes, including commodity futures and G10 and emerging market currencies. He is one of the first researchers to generate convincing results in electronic alpha with neural nets. He has a solid mathematical background from New Economic School and Moscow State University, where he studied under the celebrated Albert Shiryaev, one of the developers of modern probability theory.

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# Advisory Board

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**Helyette Geman** *PhD, PhD: Professor of Mathematical Finance, Birkbeck – University of London & Johns Hopkins*

Helyette Geman is a Professor of Mathematical Finance at Birkbeck – University of London and at Johns Hopkins University. She is a Graduate of Ecole Normale Supérieure in Mathematics, holds a Masters degree in Theoretical Physics, a PhD in Probability from the University Pierre et Marie Curie and a PhD in Finance from the University Pantheon Sorbonne.

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**Piotr Karasinski** *Senior Advisor, EBRD*

Piotr Karasinski is a pioneering quantitative analyst, best known for the Black–Karasinski short rate model which he co-developed with the late Fischer Black. His contributions to quantitative finance include models for interest rates, equity and hybrid products and random volatility. He is currently Senior Advisor at the European Bank for Reconstruction and Development. He is on the editorial board of the journal, Quantitative Finance.

# FAQ

## Should I attend the programme?

The MLI is a practitioner-orientated professional qualification that will enhance the short-term and long-term career prospects of anyone working in the following fields: Quantitative Finance, IT, Insurance, Model validation, Risk management.

## When will the MLI commence?

Cohort 2 starts on Tuesday 23rd April 2019.

## How long is the course?

The examined part of the course takes place 6 months, with the examination taking place at the end of the course.

## What is the fee & early bird structure?

There is a 25% discount until 22nd February 2019, a 15% discount until 29th March 2019.

## Who should attend the MLI?

This course has been designed to empower individuals who work in or are seeking a career in machine learning quantitative finance.

## Can I defer my Machine Learning educational learning?

At any stage during the MLI you may defer your education until the next cohort. The cohort runs every October and April.

## Where do I attend the course?

The course will take place in central London with weekly lectures at 18.00 each Tuesday for 2 hours.

## How do I access the live global streaming lectures?

The live streaming will be available on Cisco WebEx, you will be given weekly login access details.

## What happens if I fail the MLI?

You will have one chance to retake the final examination.

## What happens if I miss a lecture week?

All the lectures are filmed and are available for you on the MLI Student Portal for the duration of the course.

## Can I stagger my MLI payments?

Yes the MLI offers flexible payment options where candidates can pay for the course by instalments.

### Option 1:

- Pay in full

### Option 2:

- Full course: Pay 50% on registration and 50% in lecture week 12
- Level 1: Pay 50% on registration and 50% in lecture week 11
- Level 2: Pay 50% on registration and 50% in lecture week 24

### Option 3:

- Full course: Pay £1000 on registration, 50% of remaining balance in lecture week 10 and the final 50% in lecture week 22
- Level 1: Pay £1000 on registration, 50% of remaining balance in lecture week 6 and the final 50% in lecture week 11
- Level 2: Pay £1000 on registration, 50% of remaining balance in lecture week 18 and the final 50% in lecture week 24

## Is it possible to take only selected modules

The MLI offers two flexible study options so you can decide how to complete the course:

- Full Course: Complete the 6 modules in 6 months
- Levels 1 & 2: Complete the 6 modules in 2 x 3 month stages. Please note that candidates must pass Level 1 and then Level 2 to become MLI certified.

## What happens if I am unable to complete the course in six months?

It is possible for students to defer completion of the MLI to the next cohort at no extra charge.

Email: [enquiries@mlinstitute.org](mailto:enquiries@mlinstitute.org)

# Registration Form



Start date: Tuesday 23rd April 2019

## Regular Course Fee

- Full Course Fee: £8450.00 + UK VAT
- Level 1 Fee: £4450.00 + UK VAT
- Level 2 Fee: £4450.00 + UK VAT

20% VAT is chargeable for residents in the UK and EU

## Early Bird Discount

- 25% Discount until 22nd Feb 2019
- 15% Discount until 29th March 2019

Discount code

**VOLUME DISCOUNT:** If 2 or more people from your institution wish to take the MLI course please contact us.

To register, please fax or scan and email the completed booking form to:

E-mail: [enquiries@mlinstitute.org](mailto:enquiries@mlinstitute.org)

DELEGATE DETAILS
NAME:
ORGANISATION:
JOB TITLE:
DEPARTMENT:
ADDRESS:
POSTCODE:
TELEPHONE:
E-MAIL:
NATIONALITY:
DATE:
SIGNATURE:

### FLEXIBLE PAYMENT OPTIONS:

- Option 1:**
  - Pay in full on Registration
- Option 2:**
  - Full course: Pay 50% on registration and 50% in lecture week 12
  - Level 1: Pay 50% on registration and 50% in lecture week 11
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  - Level 2: Pay £1000 on registration, 50% of remaining balance in lecture week 18 and the final 50% in lecture week 24

The Machine Learning institute Certificate  
powered by The Quants Hub

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