SESSIONS

MAIN CONFERENCE DAY 1 - 22/09/2020

QuantMinds Americas

September 22 - 23, 2020
Online virtual conference
EST/UTC-5 Time Zone

Registration and welcome coffee

7:45am - 8:00am

Covid-19 and the Credit Cycle

8:00am - 8:30am
Setting the scene: the geopolitical and economic backdrop

Participants

Ed Altman - Max L. Heine Professor of Finance, Stern School of Business, New York University

Short break

8:30am - 8:45am
Setting the scene: the geopolitical and economic backdrop

Data Acquisition Simplified & Accelerated

8:45am - 9:20am
Setting the scene: the geopolitical and economic backdrop

Data Acquisition Simplified & Accelerated: Using AWS to more easily find, acquire, and use external data in the cloud.

- Search and discover data products to augment your research & modelling processes using AWS Data Exchange.
- Catalogue, combine, and visualize multiple data sources using AWS Glue, AWS Redshift, & AWS Quicksight.
- Centralize your data ingestion and simplify your management of data subscriptions.

Participants

Matt Napoli - Business Development, Category Manager: Financial Services, AWS Data Exchange

Balaji Gopalan - Solutions Architect, AWS

Short break

9:20am - 9:35am
Setting the scene: the geopolitical and economic backdrop

Panel: Extracting alpha through quantitative finance

9:35am - 10:15am
Setting the scene: the geopolitical and economic backdrop

Participants

Erik Vynckier - Interim Chief Executive and Chair of Research and Thought Leadership, Foresters Friendly Society and Institute and Faculty of Actuaries

Milind Sharma - CEO, QuantZ Capital Management

Chris Kelliher - Quantitative Analyst, Global Asset Allocation team, Fidelity Investments

Rohit Shrivastava - Director of Equity Investments, PanAgora Asset Management

In the boardroom with...

10:15am - 11:00am
In the boardroom with

20 people gather together for a lively debate on a topic that matters to you

Ask the expert

10:15am - 11:00am
Ask the expert

Put any and all your questions to Ed Altman

Participants

Ed Altman - Max L. Heine Professor of Finance, Stern School of Business, New York University

1-2-1 chats and catch ups

10:15am - 11:00am
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Portfolio Construction Using Machine Learning

11:00am - 11:30am
QuantMinds Americas

Participants

Taweh Beysolow - Portfolio Manager & Principal, Aludra Capital

Short break

11:30am - 11:45am
QuantMinds Americas

Machine learning in wealth and investment management: opportunities and challenges

11:45am - 12:15pm
QuantMinds Americas

Participants

Cristian Homescu - Director, Portfolio Analytics, Chief Investment Office, Global Wealth and Investment management GWIM, Bank of America Merrill Lynch

Short break

12:15pm - 12:30pm
QuantMinds Americas

Can ML and traditional models complement each other?

12:30pm - 1:00pm
QuantMinds Americas

Real-world applications

Participants

George Mylnikov - Vice President, Head of Quantitative Research, Windhaven Investment Management

Machine learning in wealth and investment management: opportunities and challenges

1:00pm - 2:00pm
In the boardroom with

In the boardroom with Cristian Homescu, Bank of America

20 people gather together for a lively debate on Machine learning in wealth and investment management: opportunities and challenges

Participants

Cristian Homescu - Director, Portfolio Analytics, Chief Investment Office, Global Wealth and Investment management GWIM, Bank of America Merrill Lynch

The skillsets required for quant risk managers

1:00pm - 2:00pm
Roundtable discussion

Roundtable discussion

8 people per table with Jeanine Kwong, Manulife on the skillsets required for quant risk managers

Participants

Jeanine Kwong - Global Head of Equity Risk, Manulife

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1-2-1 chats and catch ups

1:00pm - 2:00pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Risk Parity in a Regime Switching Context

2:00pm - 2:30pm
Stream A

Participants

Chris Kelliher - Quantitative Analyst, Global Asset Allocation team, Fidelity Investments

Short break

2:30pm - 2:45pm
Stream A

A new framework for the static replication of single- and multi-asset European options

2:45pm - 3:15pm
Stream A

Participants

Sebastien Bossu - Principal, Ogee Group LLC & NYU Courant

Short break

3:15pm - 3:30pm
Stream A

Short-Term Trend: A Jewel Hidden in Daily Returns

3:30pm - 4:00pm
Stream A

Participants

Marat Molyboga - Chief Risk Officer, Director of Research, Efficient Capital Management

Liquidity risk for asset managers

4:00pm - 4:30pm
Roundtable discussion

Roundtable discussion

8 people per table with Jeanine Kwong, Manulife on liquidity risk for asset managers

Participants

Jeanine Kwong - Global Head of Equity Risk, Manulife

Portfolio management strategies (in asset selection, allocation or tail risk hedging) tailored to current swinging markets

4:00pm - 4:30pm
In the boardroom with

In the boardroom with Aymeric Kalife

20 people gather together for a lively debate on portfolio management strategies (in asset selection, allocation or tail risk hedging) tailored to current swinging markets

Participants

Aymeric Kalife - CEO at iDigital Partners & Associate Professor, Paris Dauphine University

1-2-1 chats and catch ups

4:00pm - 4:30pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Stop Doing That! - How Unintentional Bets Are Hurting Your Investment Performance

4:30pm - 5:00pm
Stream A

Participants

Brian Kozeliski - Lecturer, Wilkes University

Short break

5:00pm - 5:15pm
Stream A

Machine Learning and Covid-19

5:15pm - 5:45pm
Stream A

How have models been impacted by the crisis and what have been the key takeaways?

Participants

Marshall Chang - Founder & CIO, A.I. Capital Management

1-2-1 chats and catch ups

5:45pm - 7:00pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Volatility hangout

5:45pm - 7:00pm
Volatility hangout

A virtual room. No hosts. Just talk all things volatility

ML hangout

5:45pm - 7:00pm
ML hangout

A virtual room. No hosts. Just talk all things ML

Alpha hangout

5:45pm - 7:00pm
Alpha hangout

A virtual room. No hosts. Just talk all things alpha

Data hangout

5:45pm - 7:00pm
Data hangout

A virtual room. No hosts. Just talk all things data

End of main conference day one

7:00pm - 7:05pm

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TIME	1-2-1 CHATS AND CATCH UPS	ALPHA HANG-OUT	ASK THE EX-PERT	DATA HANGOUT	IN THE BOARD-ROOM WITH	ML HANGOUT	QUANTMINDS AMERICAS	ROUNDTABLE DISCUSSION	SETTING THE SCENE: THE GEOPOLITICAL AND ECONOM-IC BACKDROP	STREAM A	VOLATILITY HANGOUT
7:00AM	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee	**7:45am** - Registration and welcome coffee
8:00AM									**8:00am** - Covid-19 and the Credit Cycle **8:30am** - Short break **8:45am** - Data Acquisition Simplified & Accelerated		
9:00AM									**9:20am** - Short break **9:35am** - Panel: Extracting alpha through quantitative finance		
10:00AM	**10:15am** - 1-2-1 chats and catch ups		**10:15am** - Ask the expert		**10:15am** - In the boardroom with...						

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11:00AM							**11:00am** - Portfolio Construction Using Machine Learning **11:30am** - Short break **11:45am** - Machine learning in wealth and investment management: opportunities and challenges				
12:00PM							**12:15pm** - Short break **12:30pm** - Can ML and traditional models complement each other?				

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1:00PM	**1:00pm** - 1-2-1 chats and catch ups				**1:00pm** - Machine learning in wealth and investment management: opportunities and challenges			**1:00pm** - The skillsets required for quant risk managers			
2:00PM										**2:00pm** - Risk Parity in a Regime Switching Context **2:30pm** - Short break **2:45pm** - A new framework for the static replication of single- and multi-asset European options	
3:00PM										**3:15pm** - Short break **3:30pm** - Short-Term Trend: A Jewel Hidden in Daily Returns	

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4:00PM	**4:00pm** - 1-2-1 chats and catch ups				**4:00pm** - Portfolio management strategies (in asset selection, allocation or tail risk hedging) tailored to current swinging markets			**4:00pm** - Liquidity risk for asset managers		**4:30pm** - Stop Doing That! - How Unintentional Bets Are Hurting Your Investment Performance	
5:00PM	**5:45pm** - 1-2-1 chats and catch ups	**5:45pm** - Alpha hangout		**5:45pm** - Data hangout		**5:45pm** - ML hangout				**5:00pm** - Short break **5:15pm** - Machine Learning and Covid-19	**5:45pm** - Volatility hangout
6:00PM											
7:00PM	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one	**7:00pm** - End of main conference day one

SESSIONS

MAIN CONFERENCE DAY 2 - 23/09/2020

QuantMinds Americas

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Registration & coffee

8:45am - 9:00am

Rates modelling challenges in a post-ibor world

9:00am - 9:30am
Understanding and predicting non-financial risks

Modelling framework for term rates replacing IBOR

Participants

Fabio Mercurio - Global Head of Quantitative Analytics, Bloomberg

Short break

9:30am - 9:45am
Understanding and predicting non-financial risks

Adding Optionality

9:45am - 10:15am
Understanding and predicting non-financial risks

Participants

Peter Carr - Department Chair, Finance and Risk Engineering, NYU Tandon School

In the boardroom with...

10:15am - 11:00am
In the boardroom with

20 people gather together for a lively debate on a topic that matters to you

Ask the expert

10:15am - 11:00am
Ask the expert

Put any and all your questions to Fabio Mercurio, Bloomberg

Participants

Fabio Mercurio - Global Head of Quantitative Analytics, Bloomberg

1-2-1 chats and catch ups

10:15am - 11:00am
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Full Probabilistic Control for Direct, Robust, Systematic and Targeted Stressing of the Correlation Matrix

11:00am - 11:30am
Stream A

In practice, risk measurement of the majority of enterprise-level portfolios, and even many investment portfolios, requires stressing the correlation matrix directly, rather than (solely) stressing its underlying variables, due to 1. data paucity or incomplete time series, 2. matrices where at least some of the values are based on subject-matter expertise, and/or 3. the need to specify and test the effects of correlation values nowhere close to those reflected in historical data (i.e. the majority of extreme scenarios used in forward-looking stress testing). Surprisingly few papers in the literature address this common, real-world situation, and their approaches arguably are either ad-hoc, lack solid statistical underpinnings, do not allow for direct, probability-based stressing, and/or remain non-robust as they fail under empirically challenging conditions (e.g. near-zero eigenvalues resulting from the need to first enforce positive definiteness of the matrix). We borrow from recent advances in the literature for generating random correlation matrices (based on the identity matrix) to design a method that both mitigates and eliminates these drawbacks when directly stressing real-world correlation matrices (other than the identity matrix). Our approach can be used for both generalized and targeted stressing. The former perturbs the entire correlation matrix, which can be used to account for difficult-to-model or difficult-to-anticipate second and third order effects of extreme scenarios, as well as providing much needed percentiles of the distribution of the entire matrix. Targeted stressing, on the other hand, allows for particular correlation values to be changed by specified amounts based directly on the probability of observing such changes due to the event/scenario. And both generalized and targeted stressing can be performed concurrently, based on the same proposed approach, which provides full probabilistic control while automatically enforcing positive definiteness. We demonstrate the method on realistic, reasonably large matrices (100x100) that have had positive definiteness enforced via Higham (2002), reflecting a common occurrence for most enterprise-level portfolios and even many investment portfolios. Although it requires numeric integration for all but very small matrices, our approach's runtimes are comparable to those of competing methods. Implementation is straightforward, and results robustly outperform existing methods in the literature, especially when matrices are empirically challenging (e.g. near-zero eigenvalues).

Participants

J.D. Opdyke - Vice President, Enterprise Risk and Return Management, Financial Risk and Measurement, Allstate

Short break

11:30am - 11:45am
Stream A

Semi-closed form prices of barrier options in the time-dependent CEV and CIR models

11:45am - 12:15pm
Stream A

Participants

Andrey Itkin - Director, Senior Research Associate, Bank Of America Merrill Lynch

Short break

12:15pm - 12:30pm
Stream A

Some Things I Wish I Had Known Before Scaling Quant Machine Learning Solutions

12:30pm - 1:00pm
Stream A

Participants

Jesus Rodriguez - Chief Technology Officer, IntoTheBlock

Ask the expert

1:00pm - 2:00pm
In the boardroom with

Put all your questions to Peter Carr, NYU Tandon School

Participants

Peter Carr - Department Chair, Finance and Risk Engineering, NYU Tandon School

Roundtable discussion

1:00pm - 2:00pm
Roundtable discussion

1-2-1 chats and catch ups

1:00pm - 2:00pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Using Machine Learning to Predict Realized Volatility

2:00pm - 2:30pm
Stream A

Participants

Zhibai Zhang - Adjunct Professor, NYU Tandon

Short break

2:30pm - 2:45pm
Stream A

SESSIONS

MAIN CONFERENCE DAY 2 - 23/09/2020

A Smarter Model Risk Management Discipline Will Follow From Building Smarter Models

2:45pm - 3:15pm
Stream A

Participants

Jon Hill - Professor, NYU Tandon School

Market Structure - What are the special challenges for the Americas?

3:15pm - 4:00pm
In the boardroom with

In the boardroom with Ulrich Nogel

20 people gather together for a lively debate on market structure

Roundtable discussion

3:15pm - 4:00pm
Roundtable discussion

1-2-1 chats and catch ups

3:15pm - 4:00pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Libor transition: challenges and solutions

4:00pm - 4:30pm
Stream A

Participants

Erik Vynckier - Interim Chief Executive and Chair of Research and Thought Leadership, Foresters Friendly Society and Institute and Faculty of Actuaries

Short break

4:30pm - 4:45pm
Stream A

Differential Machine Learning: Effective Risk Management with AI

4:45pm - 5:50pm
Stream A

Participants

Antoine Savine - Quantitative Research , Danske Bank

Brian Huge - Chief Quantitative Analyst, Danske Bank

1-2-1 chats and catch ups

5:50pm - 7:00pm
1-2-1 chats and catch ups

Reconnect with old friends and find new like-minded quants

Volatility hangout

5:50pm - 7:00pm
Volatility hangout

A virtual room. No hosts. Just talk all things volatility

ML hangout

5:50pm - 7:00pm
ML hangout

A virtual room. No hosts. Just talk all things ML

Alpha hangout

5:50pm - 7:00pm
Alpha hangout

A virtual room. No hosts. Just talk all things alpha

IBOR reform hangout

5:50pm - 7:00pm
IBOR reform hangout

A virtual room. No hosts. Just talk all things IBOR

End of the conference

7:00pm - 7:05pm

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8:00AM	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee	**8:45am** - Regis-tration & coffee
9:00AM									**9:00am** - Rates modelling chal-lenges in a post-ibor world **9:30am** - Short break **9:45am** - Adding Optionality	
10:00AM	**10:15am** - 1-2-1 chats and catch ups		**10:15am** - Ask the expert		**10:15am** - In the boardroom with...					

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11:00AM								**11:00am** - Full Probabilistic Control for Direct, Robust, Systematic and Targeted Stressing of the Correlation Matrix **11:30am** - Short break **11:45am** - Semi-closed form prices of barrier options in the time-dependent CEV and CIR models		
12:00PM								**12:15pm** - Short break **12:30pm** - Some Things I Wish I Had Known Before Scaling Quant Machine Learning Solutions		
1:00PM	**1:00pm** - 1-2-1 chats and catch ups				**1:00pm** - Ask the expert		**1:00pm** - Roundtable discussion			

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2:00PM								**2:00pm** - Using Machine Learning to Predict Realized Volatility **2:30pm** - Short break **2:45pm** - A Smarter Model Risk Management Discipline Will Follow From Building Smarter Models		
3:00PM	**3:15pm** - 1-2-1 chats and catch ups				**3:15pm** - Market Structure - What are the special challenges for the Americas?		**3:15pm** - Roundtable discussion			

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4:00PM								**4:00pm** - Libor transition: challenges and solutions **4:30pm** - Short break **4:45pm** - Differential Machine Learning: Effective Risk Management with AI		
5:00PM	**5:50pm** - 1-2-1 chats and catch ups	**5:50pm** - Alpha hangout		**5:50pm** - IBOR reform hangout		**5:50pm** - ML hangout				**5:50pm** - Volatility hangout
6:00PM										
7:00PM	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference	**7:00pm** - End of the conference