# Big Data in financial markets
## Programme

### 24-25 May 2018

### Winstanley Lecture Theatre
### Trinity College

Institute for
**New Economic Thinking**
UNIVERSITY OF
**CAMBRIDGE**
FACULTY OF ECONOMICS

CERF

| 9.30-10.00 | Registration & Coffee |
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## Session 1: Time Varying Volatility

10.00-10.30      Jesus Gonzalo, UC3M
**Quantile Factor models**

10.30-11.00      Clifford Lam, LSE
**Nonlinear shrinkage of Eigenvalues in Integrated Volatility Matrix for High Frequency Data**

11.00-11.30      Christian Hafner, UcL
**Testing for bubbles in cryptocurrencies with time-varying volatility**

11.30-12.00      Cathy Chen, Humboldt-Universität zu Berlin
**Cryptocurrency-specific lexicon and sentiment projection**

12.00-12.30      George Kapetanios, Kings College, London
**Choosing between persistent and stationary volatility**

12.30-13.30      Lunch

## Session 2: Large Covariance Matrices

13.30-14.00      Michael Wolf, University of Zurich
**Large Dynamic Covariance Matrices**

14.00-14.30      Jia Chen, University of York
**A New Semiparametric Estimation of Large Dynamic Covariance Matrix with Multiple Conditioning Variables**

14.30-15.00      Marco Valerio Geraci, University of Cambridge
**Measuring interconnectedness with Bayesian TVP-VARs**

15.00-15.30      Weining Wang, City University
**High Dimensional Sparse Regression**

15.30-16.00      Mingli Chen, University of Warwick
**Quantile Graphic Models: Prediction and Conditional Independence with Applications to Systemic Risk**

16.00-16.30      Coffee Break

## Session 3: Time Varying Networks

16.30-17.00          Wolfgang Härdle, Humboldt-Universität zu Berlin
                     **Time-varying Network of the Limit Order Book**

17.00-17.30          Koen Jochmans, University of Cambridge
                     **Fixed-effect regressions on network data**

17.30-18.00          Degui Li, York University
                     **Long-Range Dependent Curve Time Series**

18.00-18.30          Seok Young Hong, University of Cambridge
                     **Nonparametric estimation of infinite order regression and its application to the risk-return tradeoff**

19.00                Dinner for invited speakers in the Private Supply room, Trinity College


# Friday, 25th May 2018

9.30-10.00           Coffee

## Session 4:  Forecasting and Model Selection

10.00-10.30          Hashem Pesaran, University of Southern California and Trinity College
                     **Forecasting in linear high dimensional models subject to structural breaks**

10.30-11.00          Matteo Barigozzi, LSE
                     **Determining the dimension of factor structures in non-stationary large datasets**

11.00-11.30          Lenka Zbonakova, Humboldt-Universität zu Berlin
                     **Penalized adaptive methods in forecasting with large information sets and structure change**

11.30-12.00          Joseph Fisher, University of Cambridge
                     **Confidence and prediction intervals for neural networks**

12.00-13.00          Lunch

## Section 5: Factor Models for Stock Returns and Macro Data

13.00-13.30    Yuan Liao, University of Maryland
          **Uniform inference for conditional factor models with instrumental and idiosyncratic betas**

13.30-14.00    Gregory Connor, Maynooth University
          **Second-Order Factors in Asset Returns**

14.00-14.30    Alexei Onatskiy,  University of Cambridge
          **Spurious factor analysis**


## The End

## Other Information

**The Winstanley Lecture Theatre** is a fully-equipped audio-visual theatre, with seating for up to 150 people. To reach it, turn into Whewell's Court from Trinity Street. Turn right immediately after the first arch and climb the stone stairs. At the top of the stairs, follow the path round the ziggurat-like Wolfson building, leaving it to your left. Then turn right into Blue Boar Court.



Winstanley Lecture Theatre