

# A Cambridge-INET and cemmap Conference Economic and Econometric Applications of Big Data

11 – 12 June 2015

Winstanley Lecture Theatre, Trinity College

Organised by Victor Chernozhukov, Andrew Chesher, Oliver Linton and Lars Nesheim



## *Programme*

### Thursday 11 June 2015

10:30 – 11:00 Registration

#### *Session 1 Confidence Regions*

11:00 – 11:30 **Mehmet Caner, North Carolina State University**  
Asymptotically Honest Confidence Regions for High Dimensional Parameters by the Desparsified Conservative Lasso (joint with Anders Kock)

11:30 – 12:00 **Richard Nickl, University of Cambridge**  
On Uncertainty Quantification and Confidence Regions in High-Dimensional Inference Problems

#### *Session 2 Time Series with Time-Varying Parameters*

12:00 – 12:30 **Shuo Cao, University of Glasgow**  
Term Structure Dynamics with Time-Varying Macro-Finance Fundamentals (with Joseph Byrne and Dimitris Korobilis)

12:30 – 13:00 **Cavit Pakel, Bilkent University**  
Fitting Vast Dimensional Time-Varying Covariance Models (with Neil Sheppard, Kevin Sheppard, and Robert Engle)

13:00 – 14:00 Lunch

#### *Session 3 Panel Data and IV*

14:00 – 14:30 **Damian Kozbur, University of Chicago**  
Inference in High Dimensional Panel Models with an Application to Gun Control (with Alexandre Belloni, Victor Chernozhukov, and Christian Hansen)

14:30 – 15:00 **Matthew Harding, Duke University**  
Sparsity-Based Estimation of a Panel Quantile Count Data Model with Applications to Big Data (with Carlos Lamarche)

15:00 – 15:30 **Martin Spindler, Max Planck Institute for Social Law and Social Policy**  
Partially Linear Instrumental Variable Estimation in a High-Dimensional Setting (with Victor Chernozhukov and Christian Hansen)

15:30 – 16:00 Coffee

**Session 4     *Sparse Analysis in IO***

- 16:00 – 16:30   Pramila Krishnan, University of Cambridge**  
Attention and Saliency in Online Markets (with Christian Helmers and Manasa Patnam)
- 16:30 – 17:00   Lars Nesheim, cemmap and University College London**  
Sparse Demand: Accounting for Complementarities and Corners in Sparse Demand Systems (with Arthur Lewbel)

**Session 5     *Sparsity***

- 17:00 – 17:30   Sokbae Simon Lee, cemmap and Seoul National University**  
Structural Change in Sparsity (with Yuan Liao, Myung Seo and Youngki Shin)
- 17:30 – 18:00   Yuan Liao, University of Maryland**  
A Lava Attack on Recovery of Sums of Sparse and Dense Signals (with Victor Chernozhukov and Christian Hansen)

**Friday 12 June 2015**

**09:30 – 10:00   Coffee**

**Session 1     *Social Spillovers and Prediction***

- 10:00 – 10:30   Elena Manresa, CEMFI**  
Estimating the Structure of Social Spillovers using Panel Data
- 10:30 – 11:00   Sendhil Mullainathan, Harvard University**  
Prediction (with Jens Ludwig)

**Session 2     *Semiparametric Models***

- 11:00 – 11:30   Oliver Linton, University of Cambridge**  
Semiparametric Model Averaging of Ultra-High Dimensional Time Series
- 11:30 – 12:00   Weining Wang, Humboldt Universität zu Berlin**  
Discontinuous Dynamic Semiparametric Factor Models (with Pavel Cizek)

**12:00 – 13:00   Lunch**

**Session 3     *News and Speech***

- 13:00 – 13:30   Wolfgang Härdle, Humboldt Universität zu Berlin**  
Portfolio Decisions and Brain Reactions via the CEAD Method (Hauke R. Heekeren, Piotr Majer and Peter N.C. Mohr)
- 13:30 – 14:00   Matt Taddy, University of Chicago Booth**  
Measuring Polarization in High-Dimensional Data: Method and Application to Congressional Speech (with Matthew Gentzkow and Jesse Shapiro)