



BANK OF ENGLAND

Webinar



Centre for Central Banking Studies

Advanced analytics: new methods and applications for macroeconomic policy

3–5 November

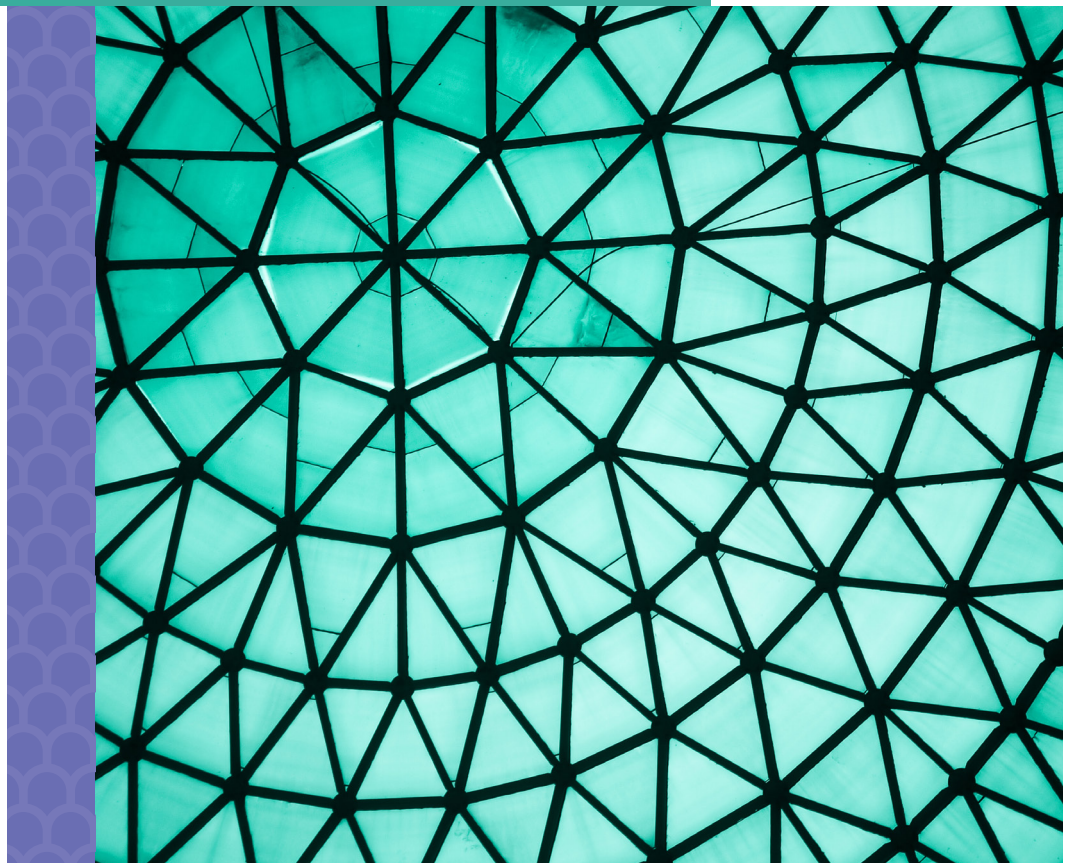
Event Directors: Andreas Joseph and Andrew Blake



EUROPEAN CENTRAL BANK



**KING'S
BUSINESS
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Advanced analytics: new methods and applications for macroeconomic policy

Bank of England, the European Central Bank and King's College London joint conference, **3 – 5 November 2021, virtual, London times**, Frankfurt +1h, New York -5h, Beijing +8h.

Day 1

Wednesday 3 November 2021

12:30 – 13:00 **Online registration**

13:00 – 13:05 **Welcome**

Paul Robinson (Head of Advanced Analytics, Bank of England)

13:05 – 13:15 **Opening remarks**

Cornelia Holthausen (Deputy Director General Economics, European Central Bank)

13:15 – 14:00

Session 1 chaired by Fotis Papailias (King's College London)

Central bank communication with non-experts – a road to nowhere?

Michael Ehrmann (European Central Bank)
Discussant: Conor Parle (Central Bank of Ireland)

14:00 – 14:45

The ECB's tracker: nowcasting the press conferences of the ECB

Armando Marozzi (London School of Economics and Political Science)

Discussant: Michael Ehrmann (European Central Bank)

14:45 – 15:15 **Break**

15:15 – 16:00

Session 2 chaired by Michele Lenza (European Central Bank)

Deep reinforcement learning in a monetary model

Andreas Joseph (Bank of England)

Discussant: Carlos Montes-Galdon (European Central Bank)

16:00 – 16:45

Poster session I (virtual booths)

Papers listed below

16:45 – 17:00 **Break**

Session 3 chaired by Francesca Monti (UCLouvain)

17.00 – 17.45 **The voice of monetary policy**

Tho Pham (University of Reading)

Discussant: Jonathan Benchimol (Bank of Israel)

17:45 – 18:30 **Whatever it takes to understand a central banker -
Embedding their words using neural networks**

Martin Baumgärtner (THM Business School)

Discussant: Linda Shuku (King's College London)

Day 2

Thursday 4 November 2021

12:30 – 13:00 **Online registration**

Session 4 chaired by Sholthana Begum (Bank of England)

13.00 – 13.45 **Inequality and the zero lower bound**

Galo Nuño (Banco de España)

Discussant: Lilia Maliar (City University of New York)

13:45 – 14:30 **Poster session II (virtual booths)**

Papers listed below

14:30 – 15:00 **Break**

Keynote 1 chaired by Chiara Osbat (European Central Bank)

15:00 – 16:00 **Don't use black box machine learning models for high-
stakes**

Cynthia Rudin (Duke University)

16.00 – 16.30 **Break**

Session 5 chaired by Christopher Kurz (Federal Reserve Board)

16.30 – 17:15 **Forecasting social unrest: a machine learning approach**

Chris Redl (International Monetary Fund)

Discussant: Martin Baumgärtner - (THM Business School)

17:15 – 18:00 **Credit shocks and populism**

Nicolò Fraccaroli (Brown University)

Discussant: Tho Pham (University of Reading)

Day 3

Friday 5 November 2021

12:30 – 13:00 **Online registration**

Keynote 2 chaired by Andreas Joseph (Bank of England)

13.00 – 14.00 **Machine learning for macroeconomics**

Jesús Fernández-Villaverde (University of Pennsylvania)

14:00 – 14:30 **Break**

Session 6 chaired by David Aikman (King's College London)

14:30 – 15:15 **Does regulation only bite the less profitable? Evidence from the too-big-to-fail reforms**

Aakriti Mathur (Bank of England)

Discussant: Tim Munday (University of Oxford)

15:15 – 16:00 **Inside the boardroom: evidence from the board structure and meeting minutes of community banks**

Paul Soto (Federal Deposit Insurance Corporation)

Discussant: Massimo Ferrari (European Central Bank)

16.00 – 16.30 **Break**

Session 7 chaired by Nick Bate (Bank of England)

16:30 – 17:15 **Macroeconomic predictions using payments data and machine learning**

Ajit Desai (Bank of Canada)

Discussant: Nicolas Woloszko (Organisation for Economic Co-ordination and Development)

17:15 – 18:00 **Big data information and nowcasting: consumption and investment from bank transactions in Turkey**

Alvaro Ortiz (BBVA)

Discussant: Gianni Amisano (*Federal Reserve Board*)

18:00 – 18:10 **Closing remarks**

Fotis Papailias (Deputy director of Data Analytics for Finance and Macro (DAFM) Research Centre)

Poster session I

Nov 3, 16:00 – 16:45

- **Mark my words: the transmission of central bank communication to the general public via the print media** by **Tim Munday** (University of Oxford)
- **The central bank crystal ball: temporal information in monetary policy communication** by **Conor Parle** (Central Bank of Ireland)
- **Does central bank talk matter for forecasting? Evidence from untargeted speeches of the BoE, Fed, and ECB** by **Linda Shuku** (King's College London)
- **Five facts about the distributional income effects of monetary policy** by **Anna Rogantini Picco** (Sveriges Riksbank)
- **E pluribus pluribus. Shock dependency of the USD pass-through to real and financial variables** by **Massimo Ferrari** (European Central Bank)

Poster session II

Nov 4, 13:45 – 14:30

- **Learning to make consumption-saving decisions in a changing environment: an AI approach** by **Aruhan Rui Shi** (University of Warwick)
- **Can machine learning change our opinion on Euler's consumption model?** By **Diana Gabrielyan** (University of Tartu)
- **Interpretability and explainability – nonlinear, non-Parametric and time-varying equity risk premia** by **Felix Kempf** (King's College London)
- **Decoupling shrinkage and selection for the Bayesian quantile regression** by **Tibor Szendrei** (Heriot-Watt University)
- **Heteroskedasticity as a complementary identification strategy** by **Tommaso Tornese** (Queen Mary University of London)

For event information or queries, please contact:

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