BdF **AI Methods** Conference 2025

27-28 OCTOBER 2025

BANQUE DE FRANCE
EUROSYSTÈME

Banque de France Headquarters (in person only)
39 Rue Croix des Petits Champs, 75001 Paris

CONFERENCE AGENDA

(GMT+1) **Day 1** - Monday 27 October

9 AM - 10 AM

Opening of the BdF AI Methods Conference 2025

Master of Ceremony
Marcos Centurion-Vicencio, *Researcher economist, Université Grenoble Alpes*

Welcome Remarks
Jean-Charles Bricongne, *Advisor on AI, Board of Governors, Banque de France*

Keynote speech
Agnès Bénassy-Quéré, *Second Deputy Governor of the Banque de France*

10 AM - 11.15 AM

Research Presentation - Session 1

LLMs for Central Banking: New Frontiers in Policy Analysis and Expectation Formation

This session explores how large language models can advance our understanding of monetary policy. It brings together three cutting-edge contributions: “From Text to Quantified Insights: A Large-Scale LLM Analysis of Central Bank Communication”, “Monetary-Intelligent Language Agent (MILA)”, and "Expectation Formation in Large Language Models”, each offering new perspectives on communication, analysis, and the dynamics of expectations.

Chair
Ario Saeid
Deputy Director, Sustainable and Resilient Economy AI Lab, University of Zurich

Presenters
Thiago Christiano Silva, Kei Moriyab and Romain Michel Veyrunea *(International Monetary Fund)*

Felix Geiger, Dimitrios Kanelis, Philipp Lieberknecht, Diana Sola *(Deutsche Bundesbank)*

Nikoleta Anesti, Edward Hill and Andreas Joseph *(Bank of England)*

11.20 AM - 11.40 AM

Official Launch of the *Economic Data Science Society*

Jean-Charles Bricongne, Banque de France

11.45 AM - 1.15 PM

Lunch & networking break

Day 1 - Monday 27 October

1.15 PM - 2.45 PM

Research Presentation - Session 2

Machine Learning for Heterogeneous Central Banking Data

The session brings together chapters from the book *Central Banking, Monetary Policy, and Artificial Intelligence* (Edward Elgar Publishing, forthcoming), highlighting four contributions: "Machine Learning in Central Banking with 'Gingado'", "Infusing Economically Motivated Structure into Machine Learning Methods", "How central banks and supervisors can use alternative techniques and artificial intelligence to follow economic developments more extensively" and "Using Machine Learning for Sensitivity Analysis in Climate-Economic Models: Implications for Central Banking"

Chair

Emily Kormanyos
Researcher, Sustainable Finance Data Hub, Deutsche Bundesbank

Presenters

Douglas Araujo *(Central Bank of Brazil)*

Marcus Buckmann and Galina Potjagailo *(Bank of England)*

Jean-Charles Bricongne *(Banque de France)*

Daniel Presta and Matheus Grasselli *(McMaster University)*, **Michel Alexandre** *(Central Bank of Brazil)*

2.45 PM - 4 PM

Research Presentation - Session 3

Advancements in Macroeconomic Forecasting Methodologies

Featuring "Nowcasting using regression on signatures", "Dual Interpretation of Machine Learning Forecasts", and "Forecasting Inflation with the Hedged Random Forest", this session highlights cutting-edge approaches in macroeconomic forecasting for central banking. Together, these works showcase new tools and insights driving policy and decision-making.

Chair

Anna Simoni
Researcher, CNRS and Professor, ENSAE / Ecole Polytechnique

Presenters

Samuel N. Cohen and Lingyi Yang *(University of Oxford/The Alan Turing Institute)*, **Giulia Mantoan and Arthur Turrell** *(Bank of England)*, **Lars Nesheim** *(University College London/The Alan Turing Institute)*, **Aureo de Paula** *(University College London)*

Philippe Goulet Coulombe *(Université du Québec)*, **Maximilian Göbel** *(Brain)*, **Karin Klieber** *(Oesterreichische Nationalbank)*

Elliot Beck (Swiss National Bank) **and Michael Wolf** *(University of Zurich/ADIA Lab)*

4 PM - 4.30 PM

Coffee & networking break

4.30 PM - 5.45 PM

High-level Panel Discussion

From Innovation Labs to Policy: Practical Applications of AI in Central Banks

This high-level panel brings together diverse perspectives to examine how AI moves from experimental innovation labs to real-world central banking applications. The discussion will address practical use cases, lessons from implementation, and the opportunities and challenges of integrating AI into central banking operations and decision-making.

Moderator

Marcos Centurion-Vicencio
Researcher, Université Grenoble Alpes

Panellists

Rebecca McCaughrin
VP Policy & Market Analysis, Federal Reserve Bank of New York

Olivier Lantran
Head of Le Lab Innovation Centre, Banque de France

Erik Balodis
Director, Analytic Solutions and Data Science, Bank of Canada

5.45 PM

Closing of Day 1

Day 2 - Tuesday 28 October

9 AM - 9.45 AM

Opening of Day 2

Master of Ceremony
Douglas Araujo, *Research economist, Central Bank of Brazil*

Keynote speech
Ajit Desai, *Adviser, BIS Innovation Hub*

9.45 AM - 10.30 AM

Research Presentation - Session 4

The Signal in the Speech: AI for Central Bank Communication Analysis

How do central bankers' communications shape market expectations? "What's New in Central Bankers Speeches? Unexpected Messages and Market Reactions" and "The Emotions of Monetary Policy" examine the informational and emotional content embedded in monetary policy discourse, highlighting how language and sentiment influence investor behavior, policy interpretation, and broader financial stability.

Chair
Galina Potjagailo
Senior Advisor, Bank of England

Presenters
Douglas Araujo *(Central Bank of Brazil)*, **Michael Ehrmann** *(European Central Bank)* **and Deniz Erdemlioglu** *(IESEG School of Management)*

Sinem Kandemir, Mamadou-Lamine Barry, Brenton Joey Bruns, Peter Tillmann *(Justus Liebig University)*, **Jens Klose and Victor Smirnov** *(THM Business School)*

10.30 AM - 11 AM

Coffee & networking break

11 AM - 12.15 PM

Research Presentation - Session 5

Enhancing Supervisory Tools: Explainable Metrics and AI Models for Credit Risk

The session brings together research on credit risk and predictive modeling, including "Reading between the lines - Uncovering asymmetry in the central bank loss function" and "Multimodal Generative Models for Bankruptcy Prediction Using Textual Data". It highlights advances in understanding drivers of predictive performance and innovative approaches to integrating textual data into risk assessment.

Chair
Jean-Brieux Delbos
Policy Officer, Data and Analytical Services, Banque de France

Presenters
Markus Haavio, Joni Heikkinen, Pirkka Jalasjoki, Juha Kilponen, Maritta Paloviita, Ilona Vänni *(Bank of Finland)*

Rogelio A. Mancisidor *(BI Norwegian Business School)*, **Kjersti Aasb** *(Norwegian Computing Center)*

Sullivan Hué *(Aix Marseille University, CNRS)*, **Christophe Hurlin** *(University of Orléans)*, **Christophe Pérignon** *(HEC Paris)*, **Sébastien Saurin** *(University of Orléans)*

12.15 PM - 2 PM

Lunch & networking break

Tour Banque de France (invitation only)

Day 2 - Tuesday 28 October

2 PM - 3.15 PM

Research Presentation - Session 6

Novel AI Methods for Economic Modelling and Data Extraction

This session presents "Generative Economic Modelling," "Let the Tree Decide: FABART A Non-Parametric Factor Model," and "Efficacy of AI RAG Tools for Complex Information Extraction and Data Annotation Tasks: A Case Study Using Banks' Public Disclosures," highlighting novel AI approaches advancing economic modelling and data extraction in central banking and finance.

Chair

Sebastian Barnes *Head of Division, Economics Department, OECD*

Presenters

Hanno Kase *(European Central Bank)*, **Matthias Rottner** *(BIS)*, **Fabio Stohler** *(University of Bonn)*

Sofia Velasco *(Banco de España)*

Nicholas Botti, Flora Haberkorn, Charlotte Hoopes, Shaun Khan *(Federal Reserve Board)*

3.15 PM - 3.45 PM

Coffee Break

3.45 PM - 5 PM

High-level Panel Discussion 2

Crossed Perspectives:
AI Insights from the Banque de France, Bank of Canada and Bank of England

This panel explores how central banks leverage artificial intelligence in policy analysis, risk assessment, and communication strategies through practical insights and comparative approaches, highlighting challenges, lessons learned, and opportunities for innovation in central banking. The discussion emphasizes evidence-based applications and the integration of AI into decision-making.

Moderator

Marcos Centurion-Vicencio *Researcher, Université Grenoble Alpes*

Panellists

Jean-Charles Bricongne *Advisor on AI, Board of Governors, Banque de France*

James Chapman *Deputy Managing Director, Financial Markets Department, Bank of Canada*

Arthur Turrell *Innovation Fellow, British Prime Minister's Office; Research & Data Manager, Financial Stability, Bank of England*

5 PM

Closing Remarks

Jérôme Coffinet, *Deputy director, Data and Analytical Services, Banque de France*

5.30 PM

Closing of the BdF AI Methods Conference 2025