

BdF AI Methods Conference 2025

27-28 OCTOBER 2025



Banque de France Headquarters
39 Rue Croix des Petits Champs, 75001 Paris

PROVISIONAL AGENDA

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

Markus Leippold
Professor, University of Zurich and Chair, Swiss Finance Institute

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)

11.15 AM - 12.15 AM

Panel discussion

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

This panel explores how both 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.

Panellists

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

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

12.15 PM - 2 PM

Lunch & networking break

Day 1 - Monday 27 October

2 PM - 3.15 PM	<div>Research Presentation - Session 2</div> <div>Machine Learning for Heterogeneous Central Banking Data</div> <div>The session brings together chapters from Central Banking, Monetary Policy, and Artificial Intelligence (Edward Elgar Publishing, forthcoming), highlighting three contributions: “Machine Learning in Central Banking with ‘Gingado,’” “Using Machine Learning for Sensitivity Analysis in Climate-Economic Models: Implications for Central Banking,” and “Infusing Economically Motivated Structure into Machine Learning Methods.” Together, they showcase practical applications, innovative modeling approaches, and the integration of economic insights into machine learning for policy, and decision-making in central banking.</div> <div><div>Chair</div><div>Emily Kormanyos Researcher, Sustainable Finance Data Hub, Deutsche Bundesbank</div></div> <div><div>Presenters</div><div><div>Douglas Araujo (Central Bank of Brazil)</div><div>Daniel Presta and Matheus Grasselli (McMaster University), Michel Alexandre (Central Bank of Brazil)</div><div>Marcus Buckmann and Galina Potjagailo (Bank of England)</div></div></div>
3.15 PM - 4.30 PM	<div>Research Presentation - Session 3</div> <div>Advancements in Macroeconomic Forecasting Methodologies</div> <div>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.</div> <div><div>Chair</div><div>Anna Simoni Researcher, CNRS and Professor, ENSAE / Ecole Polytechnique</div></div> <div><div>Presenters</div><div><div>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)</div><div>Philippe Goulet Coulombe (Université du Québec), Maximilian Göbel (Brain), Karin Klieber (Oesterreichische Nationalbank)</div><div>Elliot Beck (Swiss National Bank) and Michael Wolf (University of Zurich/ADIA Lab)</div></div></div>
4.30 PM - 4.45 PM	Coffee Break
4.45 PM - 6 PM	<div>High-level Panel Discussion</div> <div>From Innovation Labs to Policy: Practical Applications of AI in Central Banks</div> <div>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.</div> <div><div>Moderator</div><div>Marcos Centurion- Vicencio Researcher, Université Grenoble Alpes</div></div> <div><div>Panellists</div><div><div>Rebecca McCaughrin VP Policy & Market Analysis, Federal Reserve Bank of New York</div><div>Olivier Lantran Head of Le Lab Innovation Centre, Banque de France</div><div>James Chapman Deputy Managing Director, Financial Markets Department, Bank of Canada (tbc)</div></div></div>
6 PM	Closing of Day 1

9 AM - 9.45 AM	<div>Opening of Day 2</div> <div>Master of Ceremony Douglas Araujo, Research economist, Central Bank of Brazil</div> <div>Keynote speech Ajit Desai, Adviser, BIS Innovation Hub</div>		
9.45 AM - 10.30 AM	<div>Research Presentation - Session 4</div> <div>The Signal in the Speech: AI for Central Bank Communication Analysis</div> <div>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.</div> <div><div>Chair Galina Potjagailo Senior Advisor, Bank of England</div><div>Presenters Douglas Araujo (Central Bank of Brazil), Michael Ehrmann (European Central Bank) and Deniz Erdemlioglu (IESEG School of Management)</div><div>Sinem Kandemir (European Central Bank), Mamadou-Lamine Barry, Brenton Joey Bruns, Peter Tillmann (Justus Liebig University), Jens Klose and Victor Smirnov (THM Business School)</div></div>		
10.30 AM - 11 AM	Coffee Break		
11 AM - 12.15 PM	<div>Research Presentation - Session 5</div> <div>Enhancing Supervisory Tools: Explainable Metrics and AI Models for Credit Risk</div> <div>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.</div> <div><div>Chair Thomas Renault Professor, University Paris-Saclay and AI Consultant, Banque de France</div><div>Presenters Markus Haavio, Joni Heikkinen, Pirkka Jalasjoki, Juha Kilponen, Maritta Paloviita, Ilona Vänni (Bank of Finland)</div><div>Rogelio A. Mancisidor (BI Norwegian Business School), Kjersti Aasb (Norwegian Computing Center)</div><div>Sullivan Hué (Aix Marseille University, CNRS), Christophe Hurlin (University of Orléans), Christophe Pérignon (HEC Paris), Sébastien Saurin (University of Orléans)</div></div>		
12.15 PM - 2 PM	<div>Lunch & networking break</div> <div>Tour Banque de France (invitation only)</div>		

Day 2 - Tuesday 28 October

2 PM - 3.15 PM	<div>Research Presentation - Session 6</div> <div>AI Innovations for Suptech and Macro-Financial Surveillance</div> <div>The session features contributions from Central Banking, Monetary Policy, and Artificial Intelligence (Edward Elgar Publishing, forthcoming), presenting another three studies: “Artificial Intelligence in Suptech,” “Identifying Topic-related Content in a Large Dataset of Central Bank Speeches,” and “How central banks and supervisors can use alternative techniques and artificial intelligence to follow economic developments more extensively.” Together, they showcase innovative applications of AI for monitoring and analyzing economic and supervisory developments.</div> <div><div>Chair</div><div>Marcos Centurion-Vicencio Researcher, Université Grenoble Alpes</div></div> <div><div>Presenters</div><div>Laura Macchioni, Nikolas Passos and Hugo Bourrousse (European University Institute), Caroline Miaguti (Bradesco Bank)</div><div>David Arseneau (Federal Reserve), Mitsuhiro Osada (Bank of Japan) and Stefan Arseneau (Boston University) - (tbc)</div><div>Jean-Charles Bricongne (Banque de France)</div></div>
3.15 PM - 3.45 PM	Coffee Break
3.45 PM - 5 PM	<div>Research Presentation - Session 7</div> <div>Novel AI Methods for Economic Modelling and Data Extraction</div> <div>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.</div> <div><div>Chair</div><div>Sebastian Barnes Head of Division, Economics Department, OECD</div></div> <div><div>Presenters</div><div>Hanno Kase (European Central Bank), Matthias Rottner (BIS), Fabio Stohler (University of Bonn)</div><div>Sofia Velasco (Banco de España)</div><div>Nicholas Botti, Flora Haberkorn, Charlotte Hoopes, Shaun Khan (Federal Reserve)</div></div>
5 PM	<div>Closing Remarks</div> <div>Jérôme Coffinet, Deputy director, Data and Analytical Services, Banque de France</div>
5.30 PM	Closing of the BdF AI Methods Conference 2025