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## Centre for Monetary and Financial Economics (CMFE) Workshop

# Interactive Demonstration of the RISE Toolbox in MATLAB

### When:

Thursday, June 4, 3:30 to 5 p.m.

### Location (In person):

Kanta Marwah Seminar Room,  
Department of Economics, Carleton  
University, D880 Loeb Building

### Registration required:

Material for the workshop will be shared.

- Interactive session in which Dr. Maih will demonstrate the RISE toolbox and its applications live, while keeping the material accessible and allowing for questions throughout.
- Need to bring a laptop with MATLAB v2024b or later installed, along with the Optimization Toolbox and the Statistics and Machine Learning Toolbox.

[Register here](#)

### Presenter



Dr. Junior Maih

**Junior Maih** is a Senior Economist and Special Adviser at Norges Bank, specializing in nonlinear and regime switching macroeconomic models. He is the original developer of the RISE toolbox, a MATLAB platform widely used for solving, simulating, and estimating nonlinear and Markov switching DSGE and VAR type models.

His research focuses on regime switching dynamics, Bayesian filtering, nonlinear solution methods, and the design of macroeconomic policies in environments characterized by instability, financial frictions, and uncertainty. He has contributed to advances in perturbation and filtering techniques for models with structural change and applied these tools to questions related to financial stability, asymmetric policy responses, and risk measurement.

Junior has held research and teaching positions at the IMF, the ECB, the European Commission, the European Stability Mechanism, the Federal Reserve Bank of Atlanta, and BI Norwegian Business School. He has also taught specialized courses at institutions including the Federal Reserve Board and the Bank of Canada, and regularly presents his work at central banks and international institutions.