Sunho Lee

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Current Position

Economist, Office of Economic Modeling & Policy Analysis, Bank of Korea, June 2024 - Present

Education

Ph.D., Economics, Korea University, February 2024
M.A., Economics, Korea University, August 2019
B.B.A., Business Administration, Sungkyunkwan University, February 2017

Research Fields

Machine Learning, Bayesian Econometrics, Financial Economics, Monetary Economics, Empirical Macroeconomics

Working Papers

- "Statistical and Economic Benefits of Whitening Residuals in Bond Yields", *under review*

- "A Bayesian Large Vector Autoregression of the Yield Curve and Macroeconomic Variables with No-Arbitrage Restriction", with Kyu Ho Kang, *under review*

    - **Related Package:** TermStructureModels.jl
      (Julia-based Bayesian estimation and scenario analysis package for the Gaussian affine term structure model, capable of incorporating numerous macro risks and lag terms)

- "Regime-Switching Macro Risks in the Term Structure of Interest Rates", with Kyu Ho Kang, *under review*

Publications

- "Global Factors in Inflation and Interest Rates", with Kyu Ho Kang, 2025, *Open Economies Review*, forthcoming.

- "Analysis of the Regime-Switching Property of Unspanned Macro Risks in the Korean Yield Curve", 2023, *Economic Analysis,* 29(3), 1-34, publisher: Bank of Korea.

Other Packages

- bayecon.matlab (Bayesian econometrics toolbox written in MATLAB)

Conferences & Seminars

- **2024:** Korea's Allied Economic Associations Annual Meeting, Seoul
  Korean Econometric Society Summer Conference, Seoul

- **2023:** Econometric Society Australasia Meeting, Sydney
  SKKU-KAFE International Conference on Finance and Economics, Seoul
  Brain Korea 21 FOUR Ph.D. conference, Seoul

- **2022:** SoFiE Financial Econometrics School, Brussels
  Econometric Society Australasia Meeting, Virtual
  Asian Meeting of the Econometric Society in East and South-East Asia, Virtual
  29th Annual Society for Nonlinear Dynamics and Econometrics Symposium, Virtual
  5th International Conference on Econometrics and Statistics, Virtual
  KEA 70th Anniversary International Conference, Virtual
  16th International Symposium on Econometric Theory and Applications, Virtual
  1st Winter Workshop in Recent Advances in Macroeconomics, Virtual
  Brain Korea 21 FOUR Ph.D. conference, Seoul

- **2021:** Western Economic Association International Annual Conference, Virtual
  Korea's Allied Economic Associations Annual Meeting, Virtual
  Korean Economic Review International Conference 2021, Virtual
  AKES Korea and the World Economy XIX Conference, Busan
  Brain Korea 21 FOUR Ph.D. conference, Virtual

- **2020:** Korea International Economic Association Winter Conference, Virtual
  1st KAIST-Korea-Yonsei Graduate Student Economics Conference, Seoul

Awards and Fellowships

- KU Future Talent Fellowship, Korea University, February 2022

- The Best Research Proposal Award, Korea University, November 2021

- Research Scholarship, Brain Korea 21 FOUR, Spring 2018 - Spring 2023

- Visiting Research Scholarship, Brain Korea 21 FOUR, September 2018 - October 2018

Computer Skills

Julia, Python, R, gretl, MATLAB, Wolfram Language, LaTeX

Languages

Korean (native), English (fluent)