

# Sunho Lee

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Research Department  
Bank of Korea  
39 Namdaemun-ro, Jung-gu  
Seoul 04531, Korea

Tel: +82-2-759-4114  
Email: econ.preference@gmail.com  
Homepage: econpreference.github.io  
Github: github.com/econPreference

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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*
- “Global Factors in Inflation and Interest Rates”, with Kyu Ho Kang, *under review*

## Publications

- “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, L<sup>A</sup>T<sub>E</sub>X

## Languages

Korean (native), English (fluent)