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EMPLOYMENT

Assistant Professor, Department of Business Administration, Jeonbuk National University, 2024 - Present.
Associate Professor, SILC Business School, Shanghai University, 2022 - 2024.
Assistant Professor, Center for Economic Research, Shandong University, 2019 - 2022.

EDUCATION

Ph.D. in Economics, Chung-Ang University, Korea, 2019
M.A. in Economics and Statistics, Korea University, Korea, 2014
B.A. in Economics, Korea University, Korea, 2012

FIELDS OF INTERESTS

Financial Economics, Empirical Finance, Energy Economics, Applied Econometrics

PUBLICATIONS

In English

Cognitive, Noncognitive, and Social Skills and Alcohol Consumption (with Sunhyung Kim), 2026, *Health Economics*, 35, 69-89.

Comparing the Dynamic Impact of Environmental Policies on Greenhouse Gas Emission: Evidence from OECD Countries (with Honghong Wei), 2025, *Journal of Environmental Management*, 394, 127226.

Electrochemical Performance and Economic Evaluation of Hierarchical $LiFePO_4$ Cathodes Synthesized by a Microwave-Assisted Hydrothermal Method (with Mihey Wu Youngku Kang), 2025, *Macromolecular Research*, Forthcoming.

Hedging Bitcoin with Commodity Futures: An Analysis with Copper, Gas, Gold, and Crude Oil Futures (with Sung Y. Park), 2024, *North American Journal of Economics and Finance*, 72, 102127.

Quantile Connectedness Between Cryptocurrency and Commodity Futures (with Sung Y. Park), 2023, *Finance Research Letters*, 58, 104472.

Which Shrinkage is Better?: Portfolio Selection with a Cleaned Random Matrix (with Sung Y. Park), 2023, *Investment Analysts Journal*, 52, 297-312.

The Impact of Oil Price Volatility on Stock Markets: Evidences from Oil-Importing Countries (with Sung Y. Park), 2021, *Energy Economics*, 101, 105413.

Optimal Portfolio Selection using a Simple Double-Shrinkage Selection Rule (with Sung Y. Park), 2021, *Finance Research Letters*, 43, 102019.

Tail Risk Measures and Portfolio Selection (with Sung Y. Park), 2021, in Sriboonchitta S., Kreinovich V., Yamaka W., eds., *Behavioral Predictive Modeling in Economics: Studies in Computational Intelligence*, 897, 117-139.

Oil Prices and Stock Markets: Does the Effect of Uncertainty Change over Time? (with Sung Y. Park), 2017, *Energy Economics*, 61, 42-51.

In Korean

Redefinition of Unification Cost and Innovation Method for Cost Estimation (with D.H. Ryu, Y.S. Cho, and S.C. Hong), 2021, in T.G. Kim et. al. eds., *Peace Studies on the Korean Peninsula: Strategic Alignment of Universality and Particularity*, Seoul National University Publishing and Culture Center, 82-103.

Simple Econometric Model for Monitoring Performance of Photovoltaic using Weather Information (with Sung Y. Park and J.I. Kim), 2019, *Korean Energy Economic Review*, 18(1), 85-112.

Asymmetric Impacts of Oil Price Uncertainty on Industrial Stock Market: A Quantile Regression Approach, (with Sung Y. Park), 2019, *Management and Information Systems Review*, 38(3), 1-19.

WORKING PAPERS

Does ESG Performance Matter During Unstable Energy Environment?, (with Honghong Wei).

Can Portfolio Diversification using Bitcoin Help?, (with Sung Y. Park).

The Effect of Temperature Anomaly on Commodity Returns.

Effects of Natural Disasters on Stock Markets: Empirical Application of Asian Stock Markets (with Stanley I.M. Ko and Sung Y. Park).

Portfolio Optimization using Distortion Risk Measures.

WORK IN PROGRESS

Spillover Analysis for S&P 500, Gold, and Crude Oil (with Sung Y. Park)

Optimal Hedge Ratio Estimation with Distortion Risk Measures (with Sung Y. Park)

For Better Performance: Portfolio Selection based on Constrained Covariance Matrix Estimator

Portfolio Selection using a Modified Resampled Portfolio Approach (with Sung Y. Park)

Time-varying Optimal Portfolio Selection using Multivariate GARCH Models (with Jia Chen and Sung Y. Park)

RESEARCH EXPERIENCE

Research Assistant, Professor Sung Y. Park, School of Economics, Chung-Ang University, Jan. 2017 - Aug. 2019.

Assistant Administrator, Journal of Economic Development, Mar. 2016 - Sep. 2019.

TEACHING EXPERIENCE

Jeonbuk National University

Financial Derivatives (Undergraduate)
Corporate Finance (Undergraduate)
Investments (Undergraduate)
Risk Management (Graduate)
Research Methods II (Graduate)
FinTech Fundamentals (Graduate)

Shanghai University
- Economics I (Undergraduate)
- Economics II (Undergraduate)
- Financial Econometrics (Undergraduate)
- Quantitative Business Analysis (Undergraduate)
- Economics for Business (Undergraduate)
- Financial Frontier (Undergraduate)
- Fintech Practice (Graduate)
- Quantitative Investment (Graduate)

Chung-Ang University
- Statistics for Economist (Undergraduate), Spring 2022.

Shandong University
- Financial Measurement Topics (Graduate), Fall 2020.

Korea Aerospace University
- Practical Economics (Undergraduate), Spring 2016, Fall 2016 and Fall 2017.
- Modern Principles of Economics (Undergraduate), Spring 2019.

PRESENTATION IN CONFERENCES

2025 Joint Conference with the Allied Korea Finance Association, The Plaza Hotel, Seoul, Korea, May 30, 2025.

2025 Korea's Allied Economic Associations Annual Meeting, Hannam University, Daejeon, Korea, Feb. 6-7, 2025.

2024 Korean Financial Management Association Annual Meeting, Korea Federation of Banks, Seoul, Korea, Nov. 22, 2024.

2024 Sungkyun Economic Research Institute (SERI) International Conference, Sungkyunkwan University, Seoul, Korea, Jul. 12-13, 2024.

2024 Korean Economic Review International Conference (KER2024), Alepnsia Convention Center, Pyeongchang, Korea, Jun. 18-19, 2024.

2023 Chung-Ang University Economic Research Institute International Conference in Remembrance of Professor Ill-Tae Ahn, Chung-Ang University, Seoul, Korea, Aug. 10, 2023.

2023 Korean Economic Review International Conference (KER2023), Sono Calm, Yeosu, Korea, Jul. 4-5, 2023.

2021 Korea's Allied Economic Associations Annual Meeting, Seoul National University, Seoul, Korea, Feb. 4-5, 2021.

5th Paris Financial Management Conference (PFMC-2017), IPAG Business School, Paris, France, Dec. 18-20, 2017.

13th International Symposium on Econometric Theory and Applications (SETA 2017), Peking University, Beijing, China, Oct. 6-7, 2017.

2nd Applied Financial Modelling Conference, Deakin University, Melbourne, Australia, Feb. 1-2, 2017.

1st Applied Financial Modelling Conference, Deakin University, Melbourne, Australia, Feb. 4-5, 2016.

HONORS AND AWARDS

Best Article of the Year by Nulpurun Foundation, Korean Energy Economic Review, 2020.

Full University Graduate Research Scholarship, Chung-Ang University, 2015 - 2017.

Travel Grant Funds, Chung-Ang University, Fall 2016, Spring 2017 and Fall 2017.

REFEREE SERVICE

North American Journal of Economics and Finance, Energy Economics, International Review of Finance, International Journal of Managerial Finance, International Journal of Computer Mathematics, Applied Economics Letters

OTHER INFORMATION

Statistics software: R, GAUSS, MATLAB, EViews, Stata
Editorial software: LaTeX
Languages: English (fluent), Korean (native)

REFERENCES

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