

Short bio. My research focuses on Causal Decision Making and Causal Effect Identification. I study how to graphically model a wide range of real-world problems in a causal manner and make optimal decisions. In particular, my research explores methods for making robust decisions, even when modeling with incomplete information, and decision-making processes in sequential settings.

Education

Graduate School of Data Science, Seoul National University

Integrated M.S and Ph.D in Data Science (Advisor: Prof. [Sanghack Lee](#))

Seoul, Republic of Korea

Fall 2022 - Fall 2027 (expected)

Department of Mathematics and Statistics, Sejong University

B.S in Applied statistics and Mathematics, Cum Laude (Advisors: Prof. [Ji Eun Lee](#), [Jin Hee Yoon](#))

Seoul, Republic of Korea

Spring 2016 - 2022

Publications

* for joint first authorship and [†] for corresponding author.

1. [Structural Causal Bandits under Markov Equivalence](#)

[Min Woo Park](#), Andy Ardit, Elias Bareinboim[†], Sanghack Lee[†]

Neural Information Processing Systems (NeurIPS), 2025., Columbia CausalAI Laboratory, Technical Report (R-122)

(Acceptance rate: 24.52%).

2. [On Transportability for Structural Causal Bandits](#)

[Min Woo Park](#) and Sanghack Lee[†]

arXiv preprint, 2025.

3. [Complete Graphical Criterion for Sequential Covariate Adjustment in Causal Inference](#)

Yonghan Jung[†], [Min Woo Park](#), and Sanghack Lee[†]

Neural Information Processing Systems (NeurIPS), 2024

(Acceptance rate: 25.75%).

4. [Computation of the iterated Aluthge, Duggal, and Mean transforms](#)

[Min Woo Park](#)^{*}, and Ji Eun Lee^{*†}

Filomat, 2023.

5. Counterfactual Structural Causal Bandits

[Min Woo Park](#) and Sanghack Lee[†]

under review.

6. Convergence of the iterated mean transforms of a 2×2 matrix

Ji Eun Lee^{*†} and [Min Woo Park](#)^{*}

under review.

Awards and Honors

BK21 Scholarship

2024, 2025

4th place award | The 9th College of Natural Sciences Academic Conference, Sejong University

Nov 2021

1st place academic scholarship | Department of Mathematics and Statistics, Sejong University

Fall 2020, Fall 2021

3rd place award | The 8th College of Natural Sciences Academic Conference, Sejong University

Nov 2020

Projects

Scalable Causal Discovery LG AI Research	Sep 2025 - present
Hyundai NGV Data Boot-Campus Hyundai Motors	July 2025 - Sep 2025
Hyundai NGV Data Boot-Campus Hyundai Motors	July 2024 - Sep 2024

Teaching Assistants

Causal Inference for Data Science	Spring, Fall 2024, Spring 2025
Machine Learning and Deep Learning for Data Science II	Fall 2023
Basic Mathematics for Artificial Intelligence	Spring 2022

Invited Talks

Structural Causal Bandits under Markov Equivalence

ExploreCSR poster session Seoul, Republic of Korea	Dec 2025
NeurIPS 2025 poster session San Diego, USA	Dec 2025
JKAIA 2025, NeurIPS preview session Seoul, Republic of Korea	Nov 2025
SNU GSDS student research seminar Seoul, Republic of Korea	Apr 2025

Complete Graphical Criterion for Sequential Covariate Adjustment in Causal Inference

NeurIPS 2024 poster session Vancouver, Canada	Dec 2024
SNU GSDS student research seminar Seoul, Republic of Korea	Dec 2024

Academic Services

Conference Reviewer: 2026 ICLR, 2025 ICML

Reference

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Associate Professor	
Jin Hee Yoon Sejong University	jin9135@sejong.ac.kr
Assistant Professor	

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