

RESEARCH INTEREST 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	Seoul
	Integrated M.S and Ph.D in Data Science	Fall 2022 - present
	<ul style="list-style-type: none"> • Advisor: Prof. Sanghack Lee • Research area: Causal Decision Making, Causal Effect Identification 	

	Department of Mathematics and Statistics, Sejong University	Seoul
	B.S. in Applied statistics and Mathematics (Double Major)	Spring 2016 - Spring 2022
	<ul style="list-style-type: none"> • Advisor: Prof. Ji Eun Lee • Research area: Operator Theory 	

- | | |
|--------------|---|
| Publications | 1. Structural Causal Bandits under Markov Equivalence
<u>Min Woo Park</u> , Andy Ardit, Elias Bareinboim [†] , Sanghack Lee [†]
Neural Information Processing Systems (NeurIPS), 2025.
Columbia CausalAI Laboratory, Technical Report (R-122). |
| | 2. Complete Graphical Criterion for Sequential Covariate Adjustment in Causal Inference
Yonghan Jung [†] , <u>Min Woo Park</u> , and Sanghack Lee [†]
Neural Information Processing Systems (NeurIPS), 2024. |
| | 3. Computation of the iterated Aluthge, Duggal, and Mean transforms
<u>Min Woo Park</u> [*] , and Ji Eun Lee ^{*†}
Filomat, 2023. |
| | 4. Counterfactual Structural Causal Bandits
<u>Min Woo Park</u> and Sanghack Lee [†]
under review. |
| | 5. On Transportability for Structural Causal Bandits
<u>Min Woo Park</u> and Sanghack Lee [†]
under review. |
| | 6. Convergence of the iterated mean transforms of a 2×2 matrix
Ji Eun Lee ^{*†} and <u>Min Woo Park</u> [*]
under review. |

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

Awards and Honors	BK21 Scholarship Seoul National University	2024
	4th place Award The 9th College of Natural Sciences Academic Conference, Sejong University	Nov 2021
	First Place Academic Scholarship Department of Mathematics and Statistics, Sejong University	Fall 2021
	Third Place Award The 8th College of Natural Sciences Academic Conference, Sejong University	Nov 2020
	First Place Academic Scholarship Department of Mathematics and Statistics, Sejong University	Fall 2020

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

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

Invited Talks	SNU GSDS Student Research Seminar Seoul National University	Apr 2025
	NeurIPS Poster Session Vancouver, Canada	Dec 2024
	SNU GSDS Student Research Seminar Seoul National University	Dec 2024

Academic Services	Conference Reviewer: ICML 2025
-------------------	--------------------------------

Reference	Sanghack Lee Seoul National University	sanghack@snu.ac.kr
	Associate professor	
	Ji Eun Lee Sejong University	jieunlee7@sejong.ac.kr
	Associate Professor	

Last updated: Sep 24, 2025