

**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

- 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 (Cum Laude) Spring 2016 - Spring 2022

- Advisor: Prof. Ji Eun Lee
- Research area: Operator Theory

- Publications**
1. Structural Causal Bandits under Markov Equivalence  
Min Woo Park, Andy Ardit, Elias Bareinboim<sup>†</sup>, Sanghack Lee<sup>†</sup>  
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<sup>†</sup>, Min Woo Park, and Sanghack Lee<sup>†</sup>  
Neural Information Processing Systems (NeurIPS), 2024.
  3. Computation of the iterated Aluthge, Duggal, and Mean transforms  
Min Woo Park<sup>\*</sup>, and Ji Eun Lee<sup>\*†</sup>  
Filomat, 2023.
  4. Counterfactual Structural Causal Bandits  
Min Woo Park and Sanghack Lee<sup>†</sup>  
under review.
  5. On Transportability for Structural Causal Bandits  
Min Woo Park and Sanghack Lee<sup>†</sup>  
under review.
  6. Convergence of the iterated mean transforms of a  $2 \times 2$  matrix  
Ji Eun Lee<sup>\*†</sup> and Min Woo Park<sup>\*</sup>  
under review.

\* for joint first authorship and <sup>†</sup> for corresponding author

**Awards and Honors**

BK21 Scholarship	Seoul National University	2024 - 2025
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	NeurIPS 2025 poster session   San Diego	Dec 2025
	JKAILA 2025 NeurIPS preview poster session   Seoul	Nov 2025
	SNU GSDS student research seminar   Seoul National University	Dec 2024, Apr 2025
	NeurIPS 2024 poster session   Vancouver	Dec 2024

Academic Services	Conference Reviewer: 2026 ICLR, 2025 ICML
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	Associate Professor	
	Jin Hee Yoon   Sejong University	jin9135@sejong.ac.kr
	Assistant Professor	

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