MIN WOO PARK Ph.D. candidate

(+82) 010-4422-2943
alsdno110@snu.ac.kr

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
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 (Double Major)   Spring 2016 - Spring 2022
- Advisor: Prof. Jieun Lee
- Research area: Operator Theory

Publications

1. Structural Causal Bandits under Markov Equivalence
   Min Woo Park, Andy Arditi, Elias Bareinboim[†], Sanghack Lee[†]
   Columbia CausalAI Laboratory, Technical Report (preprint), 2025.

2. On Transportability for Structural Causal Bandits
   Min Woo Park and Sanghack Lee[†]
   under review.

3. Convergence of the iterated mean transforms of a 2×2 matrix
   Ji Eun Lee[*†] and Min Woo Park[*]
   under review.

4. Complete Graphical Criterion for Sequential Covariate Adjustment in Causal Inference
   Yonghan Jung[†], Min Woo Park, and Sanghack Lee[†]
   Neural Information Processing Systems (NeurIPS), 2024.

5. Computation of the iterated Aluthge, Duggal, and Mean transforms
   Min Woo Park[*], and Ji Eun Lee[*†]
   Filomat, 2023.

[*] 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   Fall 2025 - present

Teaching Assistants	Hyundai NGV Data Boot-Campus	July 2025 - Sep 2025
	Causal Inference for Data Science	Spring 2025
	Causal Inference for Data Science	Fall 2024
	Hyundai NGV Data Boot-Campus	July 2024 - Sep 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: Aug 21, 2025