MIN WOO PARK Ph.D. candidate

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A Home in Linkedin Github Google Scholar

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

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)

2016 - 2022

- Advisor: Prof. Jieun Lee
- Research area: Operator Theory

Work Experience

Graduate School of Data Science, Seoul National University

Causality Lab

Jan 2023 - present

Department of Mathematics and Statistics, Sejong University

Functional Analysis Lab

Jul 2021 - Dec 2022

Korea Military Service

National Service Conscript

Aug 2016 - Nov 2018

PUBLICATIONS

- Structural Causal Bandits under Markov Equivalence <u>Min Woo Park</u>, Andy Arditi, Elias Bareinboim[†], Sanghack Lee[†] Columbia CausalAI Laboratory, Technical Report (preprint), 2025.
- On Transportability for Structural Causal Bandits <u>Min Woo Park</u> 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.
- Complete Graphical Criterion for Sequential Covariate Adjustment in Causal Inference Yonghan Jung[†], Min Woo Park, and Sanghack Lee[†] Neural Information Processing Systems (NeurIPS), 2024.
- Computation of the iterated Aluthge, Duggal, and Mean transforms <u>Min Woo Park</u>*, and Ji Eun Lee*† Filomat, 2023.

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 Univ	versity Fall 2021
Third Place Award The 8th College of Natural Sciences Academic Conference, Sejong University	ity Nov 2020
First Place Academic Scholarship Department of Mathematics and Statistics, Sejong Univ	versity Fall 2020

 $[\]ast$ for joint first authorship and † for corresponding author

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
	Conference Reviewer: ICML 2025	
ACADEMIC		
Services		
Reference	Sanghack Lee Seoul National University	sanghack@snu.ac.kr
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	Ji Eun Lee Sejong University	jieunlee7@sejong.ac.kr
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Last updated: July 9, 2025