

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
- GPA: 4.15/4.3

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
- Overall GPA: 4.04/4.5 (Cum Laude)
- Major GPA: 4.46 (Applied statistic) & 4.38 (Mathmatics) /4.5

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

1. Structural Causal Bandits under Markov Equivalence
Min Woo Park, Andy Arditì, Elias Bareinboim[†], Sanghack Lee[†]
 Columbia CausalAI Laboratory, Technical Report (preprint), 2025.
2. Convergence of the iterated mean transforms of a 2×2 matrix
 Ji Eun Lee^{*†} and Min Woo Park^{*}
 under review.
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.
4. 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

TEACHING ASSISTANTS	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 Associate professor	sanghack@snu.ac.kr
	Ji Eun Lee Sejong University Associate Professor	jieunlee7@sejong.ac.kr

Last updated: Feb 25, 2025