MIN WOO PARK PH.D. STUDENT

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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
   <u>Min Woo Park</u>, Andy Arditi, 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 <u>Min Woo Park</u>[*]
   under review.

3. 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.

4. Computation of the iterated Aluthge, Duggal, and Mean transforms
   <u>Min Woo Park</u>[*], and Ji Eun Lee[*†]
   Filomat, 2023.

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

AWARDS AND HONORS

5th place Award | 2023 Mr. SNU body building competition, Seoul National University May 2023

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 Pizza Seminar	Seoul National University	Dec 2024
NeurIPS Poster Session	Vancouver, Canada	Dec 2024

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

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