

Jaehwan Lee

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Education

KAIST, Graduate School of Data Science

Daejeon, Korea
Feb 2025 – present

Yonsei University, Department of Applied Statistics

Seoul, Korea
Mar 2020 – Feb 2025

Experience

Computational Optimization Methods (COMET) Lab, Graduate Researcher

Supervised by [Prof. Changhyun Kwon](#)

Daejeon, Korea
Feb 2025 – present
1 year 1 month

Computational Optimization Methods (COMET) Lab, Undergraduate Researcher

Supervised by [Prof. Changhyun Kwon](#)

Daejeon, Korea
June 2024 – Aug 2024
3 months

Systems Modeling And Programming Lab @ Yonsei (SYMPLY), Undergraduate Researcher

Supervised by [Prof. Soongeol Kwon](#)

Seoul, Korea
Aug 2022 – June 2024
1 year 11 months

Publications

Supervised Optimization Framework for Charging and Discharging Controls of Battery Energy Storage

IEEE Transactions on Smart Grid, 2024, 15.6: 5610-5621.

Jaehwan Lee, Soongeol Kwon

doi.org/10.1109/TSG.2024.3416369

May 2024 – May 2024

Neural Combinatorial Optimization with Decision Transformer Framework

Reinforcement Learning Course Team Project

- Tools & technologies: Python, PyTorch, OR-Tools
- Conducted research and led team to design neural combinatorial optimization approach based on decision transformer.

Optimizing Energy Consumption by Integrating Machine Learning and Mathematical Optimization

May 2023 – May 2023

Final Project in ESC 29th

- Tools & technologies: Python, Scikit-learn, Gurobi
- Studied predict-then-optimize methodology for optimal energy consumption scheduling.

Predicting Current Happiness of Seoulites with Happiness Index Data

Oct 2022 – Nov 2022

Final Project in ESC 28th

- Tools & technologies: Python, Scikit-learn, Gurobi
- Studied bayesian statistics and bayesian machine learning for quantifying uncertainty.

Skills

Programming

Tools

Languages

Korean

Native

English

Intermediate

Interests

Optimization

Quantum

Activities

Expanded Statistics Club (ESC), 29th

Yonsei University
Jan 2023 – June 2023

Expanded Statistics Club (ESC), 28th

Yonsei University
July 2022 – Dec 2022

Awards

2nd Prize, BIG CONTEST 2023

Dec 2023 – present

- Big Data Analysis with Emerging Technology

4th Prize, BIG CONTEST 2022

Dec 2022 – present

- Big Data Analysis for Innovation

Honors

Academic Honors, Spring 2022

Yonsei University
Aug 2022 – present

Academic Excellence, Fall 2021

Yonsei University
Feb 2021 – present