

# Jung Won Park

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## EDUCATION

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Korea University, Seoul, Republic of Korea	Mar. 2024 ~
Department of Industrial and Management Engineering	Present
GPA: 4.22 / 4.5	
Dongguk University, Seoul, Republic of Korea	Mar. 2020 ~
B.S. in Industrial and Systems Engineering	Feb. 2024
B.S. in Industrial Information Software Convergence	
GPA: 4.1 / 4.5	

## RESEARCH INTEREST

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- Developing a methodology for decision making
- Optimization, Machine Learning, Reinforcement Learning
- Transportation, Logistics

## RESEARCH EXPERIENCE

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System Analysis & Operation Lab, Korea University, Seoul, Republic of Korea	Jun. 2025 ~
• Selected for the Basic Research Laboratory (BRL) program funded by the National Research Foundation of Korea	Present
• Topic: Future Air-Ground-Underground Integrated Urban Logistics System: Theory, AI, and Digital Twin	
• UAM Routing problem	
• Development algorithm	
eXperience Lab, Dongguk University, Seoul, Republic of Korea	Jan. 2022 ~
<i>Research Assistant</i>	Jul. 2022
• Collected data on human hand and finger length for smartphone keyboard	
• Conducted smartphone usage surveys about satisfaction of smartphone keyboard	
• Assisted in experiments on smartphone typing errors in QWERTY keyboard	

- Investigated the performance of smartphone keyboards based on hand size and dominant hand

## PROJECT EXPERIENCE

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Institute for Information & Communication Technology Planning & Evaluation (IITP)	Jul. 2024 ~ Present
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- Team project for development and operation of research and education programs on AI and data engineering, which are key issues in industry
- Role: Addressing challenges in AI and data-driven demand forecasting and optimizing multi-product production planning for various tea

Heart Disease Prediction Based on ECG Data	Jun. 2024 ~ Dec. 2024
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- Team Project for the “Forecasting Models” course
- Role: Built RNN baseline model

Estimation of Cutting Force in Cutting Process Using Explainable AI (XAI)	Nov. 2022 ~ Dec. 2022
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- Team Project for “Senior Project in Industrial and Systems Engineering” Course
- Role: Developed XGBoost Model, Built Decision Tree Model, Implemented SHAP-based code for explainability

Counseling Chatbot with Wellness Dataset	Nov. 2022 ~ Dec. 2022
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- 1st Prize, AI challenge of Future society
- Role: Finetuning RoBERTaGCN

AI-based Prediction of Fair Trade Disputes	May. 2022 ~ Jun. 2022
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- 2nd Prize, Industrial systems and engineering department capstone design competition
- Role: Data Collecting, Data Preprocessing

Market Research and Initial Strategy Development for a Pet Name Recommendation System	Apr. 2022 ~ Jun. 2022
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- Industry-Academia Collaboration Project (A partnership between USoft and the student club Con.point from the Department of Industrial and Systems Engineering at Dongguk University)
- Role: Team Leader, Research on Recommendation Systems

Dongguk University Application User Interface (UI) Improvement	Sep. 2020 ~
<ul style="list-style-type: none"> <li>Team Project for the “Introduction to Industrial and Systems Engineering” Course</li> <li>Role: Developed a UI improvement prototype</li> <li>A survey conducted among students showed a high level of satisfaction</li> </ul>	Dec. 2022

## CONFERENCE

<b>Jung Won Park</b> , Byung Duk Song. (2025). UAM Routing and vertiport pad assignment: A mathematical optimization model and case study. <i>2025 Spring Joint Conference of KORMS and KIIE</i>	Spring 2025
<b>Jung Won Park</b> , Na Yeon Kang, Byung Duk Song. (2024). Design of a multidimensional urban logistics network: Optimizing the simultaneous location of UAM vertiports and ground logistics hubs. <i>2024 Spring Joint Conference of KORMS and KIIE</i>	Spring 2024

## TEACHING EXPERIENCE

<b>Logistic System Organization</b> , Korea University	Fall 2025
<ul style="list-style-type: none"> <li>Teaching Assistant</li> </ul>	
<b>Network Optimization</b> , Korea University	Spring 2025
<ul style="list-style-type: none"> <li>Teaching Assistant</li> </ul>	
<b>Operation Research I &amp; Lab</b> , Korea University	Fall 2024
<ul style="list-style-type: none"> <li>Teaching Assistant</li> </ul>	

## AWARDS AND HONORS

Teaching Assistant Scholarships, Korea University	
<ul style="list-style-type: none"> <li>Spring 2025, Fall 2024, Spring 2024, Fall 2025</li> </ul>	
Cum Laude, Dongguk University	Fab. 2024
1st Prize, AI challenge for future society, Dongguk University Linc 3.0	Dec. 2022
2nd Prize, Industrial systems and engineering department capstone design competition, Dongguk University	May. 2022

COVID-19 Scholarship, Dongguk University Fall 2022

Work-Study Scholarship, Dongguk University Spring 2022

Entrance Scholarship, Dongguk University Spring 2022

Dean's List, Dongguk University

- Fall 2021, Spring 2021, Fall 2020, Spring 2020

High School e-Learning Scholarship, Scholarship Foundation Spring 2020

### Extracurricular Activities

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**AI Education Program**, National IT Industry Promotion Agency Sep. 2022

- Completed "AI Data Analysis" course (60 hours)
- Completed "Fundamentals of Practical AI Online Training" course (60 hours)

**'Con.point' Club**, Department of Industrial & Systems Engineering, Dongguk University Spring 2021 ~ Fall 2022

- The only technology management club within the department
- Organized seminars on technology and management topics
- Collaborated with USOOSOFT in Fall 2022 on a project researching the market for a pet name recommendation system

**Student Council**, Department of Industrial & Systems Engineering, Dongguk University Spring 2020 ~ Spring 2022

- Created promotion materials
- Planning and organized events

### SKILLS

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- Programming Language: Python, Java, R
- Tools: Pytorch, Git, Gurobi, CPLEX, LaTeX