

Soyoung Park

Ph.D. Candidate in Artificial Intelligence (Computer Science and Engineering)

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EDUCATION

Ph.D. Candidate in Artificial Intelligence (Advisor: Prof. Sungsu Lim) Chungnam National University (CNU), Republic of Korea	Mar. 2023 - Aug. 2026
M.S. in Statistics (Advisor: Prof. Sangin Lee) Chungnam National University (CNU), Republic of Korea	Mar. 2021 - Feb. 2023
B.S. in Statistics; Minor in Economics Jeonbuk National University (JBNU), Republic of Korea	Mar. 2014 - Aug. 2018

RESEARCH INTERESTS

Trustworthy AI: uncertainty quantification, robustness, and fairness

Graph Learning: graph neural networks and graph mining

Recommender Systems: LLM and conformal prediction guided recommendation

Time-Series Modeling: dynamic graph representation

PUBLICATIONS

* Equal contribution. † Corresponding author

Journal Articles

1. **Soyoung Park**, Hyewon Lee, and Sungsu Lim[†]. “Dynamic Periodic Event Graphs for Multivariate Time Series.” *PeerJ Computer Science*, 2025.

International Conference Papers

1. **Soyoung Park**, Hwanjun Song, and Sungsu Lim[†]. “Quantile-Free Uncertainty Quantification in Graph Neural Networks.” In *ICML*, 2026. Accepted.
2. Minkyung Song*, **Soyoung Park**[†], and Sungsu Lim[†]. “DisCoRec: Disentangled Conformity-aware Recommendation with LLM-Guided Multi-View Learning.” In *SIGIR*, 2026. Accepted.
3. Minkyung Song, **Soyoung Park**, and Sungsu Lim[†]. “MV-LLMRec: Multi-View Representation Learning with Large Language Models for Recommendation.” In *AAAI, Poster*, 2026.
4. Seunghoon Han, Hyewon Lee, **Soyoung Park**, Jong-Ryul Lee[†], and Sungsu Lim[†]. “MR-Pruner: Training-free Multi-resolution Visual Token Pruning for Multi-modal Large Language Models.” In *WACV*, 2026.
5. **Soyoung Park** and Sungsu Lim[†]. “FnRGNN: Distribution-aware Fairness in Graph Neural Network.” In *CIKM*, 2025.
6. **Soyoung Park***, Hyewon Lee*, Mingyu Choi, Seunghoon Han, Jong-Ryul Lee[†], Sungsu Lim[†], and Tae-Ho Kim[†]. “Zero-shot Industrial Anomaly Segmentation with Image-Aware Prompt Generation.” In *PAKDD*, 2025.
7. Seunghoon Han*, Mingyu Choi*, Hyewon Lee, **Soyoung Park**, Jong-Ryul Lee[†], Sungsu Lim[†], and Tae-Ho Kim[†]. “Diverse Knowledge Selection for Enhanced Zero-shot Visual Question Answering.” In *WWW, Workshop*, 2025.

Domestic Conference Papers

1. Minkyung Song, **Soyoung Park**, and Sungsu Lim[†]. “Multi-view Representation Learning with Large Language Models for Recommendation.” In *KDBC*, 2025.
2. **Soyoung Park** and Sungsu Lim[†]. “Enhancing Reliability in Graph Neural Networks via Non-convex Penalized Quantile Regression.” In *KSC*, 2024.

3. Hyewon Lee, **Soyoung Park**, Minkyung Song, and Sungsu Lim[†]. “A Methodology for LLM-based Zero-shot Anomaly Segmentation in Road Environments.” In *KSC*, 2024.
4. Eunhyeong Bae, **Soyoung Park**, and Sungsu Lim[†]. “A Study on Predictive Models for Corporate Tax Tribunal Decisions Using Pre-trained Language Model.” In *KDBC*, 2023.

Manuscripts Under Review

1. **Soyoung Park**, Junghyun Oh, Minkyung Song, Jincheul Jang, and Sungsu Lim[†]. In *AIES*, 2026.
2. **Soyoung Park** and Sungsu Lim[†]. In *NeurIPS*, 2026.
3. **Soyoung Park**, Minkyung Song, and Sungsu Lim[†]. *Information Sciences*, 2026.

ACADEMIC PROJECTS

BK21 FOUR CNU On-Device AI Software Innovation Human Resource Education and Research Team National Research Foundation of Korea Participant	Sep. 2020 – Aug. 2027
Knowledge Extraction Framework for Extended Text-Attributed Graphs graph-based knowledge extraction from text-attributed data National Research Foundation of Korea (Global R&D) Participant	Sep. 2025 – Aug. 2028
Explainable recommender system utilizing heterogeneous graph transfer learning explainable recommendation and graph transfer learning National Research Foundation of Korea (Outstanding Young Researcher) Participant	Nov. 2023 – Feb. 2026
Node Classification and Consistency Verification Using LLMs and GNNs heterogeneous corporate data analysis ETRI, Commissioned Research Participant	Jun. 2025 – Nov. 2025
Graph Mining Technologies for Trustworthy AI reliability, uncertainty, robustness, and fairness in graph learning Chungnam National University (Internal Research) Participant	Oct. 2025 – Feb. 2026
Zero-shot and Few-shot Learning with Vision-Language Models CNU–Nota AI Joint Research Participant	Mar. 2024 – Feb. 2025
Graph Mining Technologies for Multimodal RAG graph-based retrieval and multimodal knowledge organization Chungnam National University (Internal Research) Participant	May. 2024 – Jan. 2025

PRESENTATIONS

Korea Computer Congress (KCC 2026) Organized by Korea Institute of Information Scientists and Engineers (KIISE) Session: Top Conference (ICML 2026, Oral Presentation)	Jun. 24, 2026
Software Convergence Symposium (SWCS 2026) Organized by Korea Institute of Information Scientists and Engineers (KIISE) Session: Trust, Perception, and Understanding in Modern AI (Featured Ph.D., Oral Presentation)	Apr. 24, 2026
UNIST × CNU Joint Workshop Ulsan National Institute of Science and Technology (UNIST) Session: Workshop Talks & Tutorial (Oral Presentation)	Feb. 12-13, 2026
Data Intelligence Workshop (DI Workshop 2025) Organized by Korea Institute of Information Scientists and Engineers (KIISE), Database Society Session: Future Star Researchers (Poster Presentation)	Jul. 01, 2025

AWARDS AND HONORS

CNU Research Fair for Next-Generation Researchers , Outstanding Researcher	2025
Alibaba International E-commerce Product Search Competition , 4th Place and Special Award	2025
KDBC Conference Best Paper Award , Bronze Prize	2025
CNU-Star Fellowship	2024
CNU Bio-AI Convergence Competition , Excellence Award (2nd Place)	2024
KSC Conference Travel Award	2024
Korail Public Data Idea Competition , Grand Prize (1st Place)	2024

INDUSTRY EXPERIENCE

Mobigen, Seoul, Republic of Korea DX Developer Team Data Analyst	Jan. 2022 - Dec. 2023
Penta System Technology, Seoul, Republic of Korea Big Data Team Data Analyst	Jan. 2021 - Dec. 2021
Sure Data Lab, Daejeon, Republic of Korea Data & AI Lab Data Analyst	Sep. 2019 - Oct. 2020

INDUSTRY PROJECTS

Agricultural Food Data Safe Zone Analysis (2024) Ministry of Agriculture, Food and Rural Affairs (MAFRA) Freelance Data Analyst	Oct. 2024 – Jan. 2025
Traffic AI Big Data Convergence Platform Data Analysis Road Traffic Authority (KoROAD) Data Analyst & Project Leader	Jun. 2023 – Dec. 2023
Agricultural Food Data Safe Zone Analysis (2023) Ministry of Agriculture, Food and Rural Affairs (MAFRA) Data Analyst & Project Leader	Jan. 2023 – Jun. 2023
MOLIT Collaborative Analysis Center Similarity Calculation Development Ministry of Land, Infrastructure and Transport (MOLIT) Model Developer	Aug. 2022 – Dec. 2022
MOLIT Integrated Data Channel Policy Data Analysis Ministry of Land, Infrastructure and Transport (MOLIT) Data Analyst	Jan. 2022 – Dec. 2022
NTS Big Data Analysis Model Development and Maintenance National Tax Service (NTS) Analysis Model Developer	Jan. 2021 – Dec. 2021
Urban Administration Digital Twin Data Platform Design and Construction Electronics and Telecommunications Research Institute (ETRI) Platform Developer	Jul. 2020 – Oct. 2020
Power Data-based Care Service Technology Development Innopolis Foundation Data Analyst & Model Developer	Nov. 2019 – Oct. 2020

TECHNICAL SKILLS

Programming Languages Python, R, SQL, SAS, SPSS
AI & Machine Learning Graph Neural Networks, Large Language Models, Time-Series Analysis
Data Engineering & Tools Docker, Git, Hive, Elasticsearch
Visualization & BI Tools Tableau, Kibana, Google Data Studio
GIS & Spatial Analysis QGIS, ArcGIS

CERTIFICATIONS

Microsoft Certified Azure AI Fundamentals wdWpm-48DB	Feb. 02, 2024
SQL Developer (SQLD) SQLD-043007652	Jan. 04, 2022
Big Data Analysis Engineer BAE-002002256	Jul. 16, 2021
Advanced Data Analytics Semi-Professional (ADsP) ADsP-0212744	Oct. 03, 2020
Korean History Proficiency Test Level 1 43-110173	Jun. 07, 2019
Social Survey Analyst Level 2 18202141437S	Aug. 17, 2018
SOA Exam P 793158	Oct. 17, 2017
Computer Specialist in Spreadsheet and Database Level 1 17-K9-027496	May 12, 2017