

Jongmin Park

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RESEARCH INTERESTS

Graph Representation Learning, GNNs, Graph Data Mining, Graph Geometric Learning, LLM with Graphs

EDUCATION

Chungnam National University

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

Mar. 2021 – Feb. 2026

Thesis: Hyperbolic Heterogeneous Graph Representation Learning

Advisor : Prof. Sungsu Lim

Chungnam National University

B.S in Computer Science and Engineering

Mar. 2014 – Feb. 2021

PUBLICATIONS

[6] Soohwan Jeong*, **Jongmin Park***, Mingyu Choi*, Yongjin Kwon[†] and Sungsu Lim[†], “*LLM-powered Scene Graph Representation Learning for Image Retrieval via Visual Triplet-based Graph Transformation*”, Expert Systems With Applications, Aug. 2025. (SCIE, IF:7.5, Q1)

[5] **Jongmin Park**, Seunghoon Han, Jong-Ryul Lee[†] and Sungsu Lim[†], “*Multi-Hyperbolic Space-based Heterogeneous Graph Attention Network*”, IEEE International Conference on Data Mining (ICDM, CS Top Conference), Abu Dhabi, UAE, Dec. 2024.

[4] **Jongmin Park**, Seunghoon Han, Soohwan Jeong and Sungsu Lim, “*Hyperbolic Heterogeneous Graph Attention Networks*”, International World Wide Web Conference (WWW, CS Top Conference), Singapore, Singapore, May. 2024.

[3] **Jongmin Park**, Soohwan Jeong, Byung Suk Lee and Sungsu Lim, “*MIGTNet: Metapath Instance-based Graph Transformation Network for heterogeneous graph embedding*”, Future Generation Computer Systems, Dec. 2023. (SCIE, IF: 6.2, Q1)

[2] Soohwan Jeong, **Jongmin Park** and Sungsu Lim, “*mr2vec: Multiple Role-based Social Network Embedding*”, Pattern Recognition Letters, Dec. 2023.

[1] **Jongmin Park** and Sungsu Lim, “*LEHAN: Link-Feature Enhanced Heterogeneous Graph Attention Network*”, IEEE Access, Oct. 2022. (SCIE, IF: 3.9, Q2)

PREPRINTS

Jongmin Park*, Seunghoon Han*, Hyewon Lee, Won-Yong Shin and Sungsu Lim, “*Hyperbolic Heterogeneous Graph Transformer*”

Jongmin Park*, Seunghoon Han, Won-Yong Shin and Sungsu Lim, “*Metapath-based Hyperbolic Contrastive Learning for Heterogeneous Graph Embedding*”

ACADEMIC EXPERIENCE & SERVICES

Teaching Assistant

- CNU, Machine Learning *Sep. 2022 – Dec. 2022*
- CNU, Data Structure *Mar. 2022 – Jun. 2022*
- CNU, Special Lecture on Latest Computer Technologies *Sep. 2021 – Dec. 2021*

Visiting Student

- University of Vermont, USA (Host: Prof. Byung-Suk Lee) *Jan. 2022*

Journal Reviewer

- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- Machine Learning

EXPERIENCE

Nota Inc, South Korea
Internship, Data Analyst

Dec. 2019 – Feb. 2020

PROJECT

Research Projects

- **Electronics and Telecommunications Research Institute** *May. 2024 – Nov. 2024*
 - Research on visual question answering on images through Graph-RAG+GNN+LLM
- **Electronics and Telecommunications Research Institute** *Apr. 2023 – Nov. 2023*
 - Research on Image-to-Image retrieval through scene graph representation learning with LLM
- **National Security Research Institute** *Apr. 2023 – Oct. 2023*
 - Research on machine learning-based graph-level anomaly detection
- **Electronics and Telecommunications Research Institute** *Jul. 2022 – Nov. 2022*
 - Research on Image-to-Image retrieval through scene graph representation learning
- **Electronics and Telecommunications Research Institute** *Mar. 2021 – Nov. 2021*
 - Development of an API interface prototype for data extraction in connection with big data platforms

AWARD AND HONORS

- CNU-Star Fellowship Program**, Convergence Science Institute, CNU *2025*
- Excellence in Research Award**, Graduate School of Chungnam National University *2024*
- CNU-Star Fellowship Program**, Convergence Science Institute, CNU *2022*
- Outstanding Paper Award**, Korean DataBase Conference 2021 *2021*
- Excellence Award (3rd)**, Electric Data AI Competition, KEPCO *2021*
- Outstanding Paper Award**, Korea Software Congress *2019*