Hyeongjun Yang

Ph.D Candidate

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RESEARCH INTERESTS

Applications: *Conversational Recommendation / Knowledge-enhanced Recommendation / Knowledge-grounded Dialogue Systems*
Approaches: *Continual Learning / Self-supervised Learning / Knowledge Distillation / LLM Distillation / Coreset Selection / PEFT / RAG*

EDUCATION

Yonsei University, *South Korea*   Mar 2020 – Feb 2026
Ph.D. in Computer Science (Advisor: Prof. Kyong-Ho Lee)   (Exptected)

California State University, San Bernardino, *United States*   Sep 2018 – Jun 2019
Exchange Student in Computer Science

Dankook University, *South Korea*   Mar 2013 – Feb 2020
B.S. in Software Engineering
 - Mandatory military service as a Sergeant in the Republic of Korea Army Commando (Oct 2015 - Jul 2017)

PUBLICATIONS

(★ indicates me as the first author.)

[10] "**Active Learning Framework for Improving Knowledge Graph Accuracy**"
*Donghyun Kim, **Hyeongjun Yang**, Seokju Hwang, Kyuhwan Yeom, Midan Shim, Kyong-Ho Lee*
Under Review 2025 [paper]

[9] "**RADAR: Reliable Distillation of Recommendation Rationales from Large Language Models for Enhanced Conversational Recommendation**"
***Hyeongjun Yang**★, Donghyun Kim, KyuHwan Yeom, Kyong-Ho Lee*
Under Review 2025 [paper]

[8] "**CoreSense: Social Commonsense Knowledge-Aware Context Refinement for Conversational Recommender System**"
***Hyeongjun Yang**★, Donghyun Kim, Gayeon Park, KyuHwan Yeom, Kyong-Ho Lee*
IEEE Transactions on Knowledge and Data Engineering 2025 [paper]

[7] "**Knowledge-constrained Interest-aware Multi-Behavior Recommendation with Behavior Pattern Identification**"
*Gayeon Park, **Hyeongjun Yang**, KyuHwan Yeom, Myeongheon Jeon, Yunjeong Ko, Byungkook Oh, Kyong-Ho Lee*
Information Sciences (Vol. 692) 2025 [paper]

[6] "**Granular Intents Learning via Mutual Information Maximization for Knowledge-aware Recommendation**"
***Hyeongjun Yang**★, Yerim Lee, Gayeon Park, TaeYoung Kim, Heesun Kim, Kyong-Ho Lee, Byungkook Oh*
Knowledge-based Systems (Vol. 306) 2024 [paper]

[5] "**Bottom-up propagation of hierarchical dependency for multi-behavior recommendation**"
*TaeYoung Kim, **Hyeongjun Yang**★, Gayeon Park, Seungmi Lee, Kyong-Ho Lee*
Engineering Applications of Artificial Intelligence (Vol. 138) 2024 [paper]

[4] "**Embedding Two-View Knowledge Graphs with Class Inheritance and Structural Similarity**"
*Kyuhwan Yeom, **Hyeongjun Yang**, Gayeon Park, Myeongheon Jeon, Yunjeong Ko, Byungkook Oh, Kyong-Ho Lee*

KDD 2024 [paper]

[3] "**Cross-Modal Contrastive Learning for Aspect-based Recommendation**"
Heesoo Won, Byungkook Oh, Hyeongjun Yang, Kyong-Ho Lee
Information Fusion (Vol. 99) 2023 [paper]

[2] "**Confident Action Decision via Hierarchical Policy Learning for Conversational Recommendation**"
Heeseon Kim, Hyeongjun Yang, Kyong-Ho Lee
WWW 2023 [paper]

[1] "**CLICK: Contrastive Learning for Injecting Contextual Knowledge to Conversational Recommender System**"
Hyeongjun Yang★, Heesoo Won, Youbin Ahn, Kyong-Ho Lee
EACL 2023 [paper]

PROJECTS

Refining User Preferences by Leveraging Knowledge Graphs for Conversational Recommender System	Mar 2022 – Feb 2025

w/ National Research Foundation of Korea (NRF)
- **Project Leader**: Proposal / Research Planning / Development / Validation / Publication
- Related Publications: [1], [2], [3], [8], [9]

Query Intent-based Information Retrieval from Knowledge Graphs	Dec 2023 – Dec 2024

w/ Samsung Research
- **Project Coordinator**: Proposal / Research Planning

Ontology-based Multi-type Interaction Modeling	Dec 2022 – Dec 2023

w/ Samsung Research
- **Project Leader**: Proposal / Research Planning / Development / Validation / Publication
- Related Publications: [4], [7]

Knowledge Graph based Intent-Community Detection	Dec 2021 – Dec 2022

w/ Samsung Research
- **Project Leader**: Proposal / Research Planning / Development / Validation / Publication
- Related Publications: [5], [6]

Development of XAI-based Technology for Smart Energy Platform	Mar 2020 – Feb 2021

w/ Korea Electric Power Research Institute (KEPRI)
- **Project Member**: Data Collection / Validation
- Energy Ontology Design & Knowledge Graph Construction

SKILLS

(Underlined skills indicate preferred expertise.)

Programming Languages: *Python / C / C++*
AI & ML Frameworks: *PyTorch / TensorFlow / HuggingFace*
Knowledge Graphs & Ontologies: *RDF / OWL / SPARQL*
Development Tools: *Git / Docker*