

# Hyeongjun Yang

Ph.D Candidate

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## RESEARCH INTERESTS

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**Applications:** *Conversational Recommendation / Knowledge-enhanced Recommendation / Knowledge-grounded Response Generation*

**Approaches:** *Continual Learning / Self-supervised Learning / Knowledge Distillation / LLM Distillation / Coreset Selection / RAG*

## EDUCATION

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

**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

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[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, Yerin 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

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**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