

DOSUNG LEE

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 Google Scholar  LinkedIn  GitHub

EDUCATION

Korea University

B.S. in Artificial Intelligence & Biology

Aug 2024

Korea University

Ph.D. Student in Computer Science, Artificial Intelligence

Advisor: Prof. Paul Hongsuck Seo

Research Lab: Multimodal Interactive Intelligence Lab



Current research: RAG, Multimodal Learning, LLM Agents, Personalization

Sep 2024 – Present

PUBLICATIONS



ACL 2025

The 63rd Annual Meeting of the Association for Computational Linguistics

- **ReSCORE: Label-free Iterative Retriever Training for Multi-hop Question Answering with Relevance-Consistency Supervision**
- ***Dosung Lee**, *Wonjun Oh, Boyoung Kim, Minyoung Kim, Joonsuk Park, Paul Hongsuck Seo (* equal contribution)
-  Project Page
-  arXiv PDF

EMNLP 2025

The 2025 Conference on Empirical Methods in Natural Language Processing

- **ReTAG: Retrieval-Enhanced, Topic-Augmented Graph-Based Global Sensemaking**
- Boyoung Kim, **Dosung Lee**, Sumin An, Jinseong Jeong, Paul Hongsuck Seo
-  Project Page
-  arXiv PDF

ONGOING PROJECTS

Fine-grained Multimodal RAG

Improving retrieval using cross-modal attention and fine-level alignment across image and text.

Goal-Oriented LLM Agents with Tool Calling (*Under review*)

Building agents that decompose user goals, call external APIs or tools via function calling, and adapt through feedback loops.

LLM Dynamic Persona Modeling with Memory Update

Modeling user-specific behaviors and preferences using long-term memory representations and real-time memory editing.

TEACHING ASSISTANT EXPERIENCE

Teaching Assistant for COSE 474: Deep Learning, Korea University

HONORS & AWARDS

Korea University Entrance Scholarship for Academic Excellence