

DOSUNG LEE

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EDUCATION

Korea University Aug 2024
B.S. in Artificial Intelligence & Biology
Korea University Sep 2024 – Present
Ph.D. Student in Computer Science, Artificial Intelligence
Advisor: Prof. Paul Hongsuck Seo
Current research: RAG, Multimodal Learning, LLM Agents, Personalization

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 (findings)

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

Arxiv

- **GOAT: A TRAINING FRAMEWORK FOR GOAL-ORIENTED AGENT WITH TOOLS**
- Hyunji Min, Sangwon Jung, Junyoung Sung, **Dosung Lee**, Leekyeung Han, Paul Hongsuck Seo
-  Project Page
-  arXiv PDF

ONGOING PROJECTS

Fine-grained Multimodal RAG

Improving retrieval of documents with fine-grained image and cross-modal alignment across image and text.

Clarifying Agent

Detecting ambiguity in user queries and generating targeted clarification questions to refine intent.

LLM Dynamic Persona Modeling with Memory Update

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

HONORS & AWARDS

Merit-based Scholarship — KRW 1,695,000, Fall 2022

Merit-based Scholarship — KRW 1,119,000, Fall 2018

Kim Chang-hwan Foundation Scholarship — KRW 2,500,000, Spring 2018