DOSUNG LEE

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🎓 Google Scholar   in LinkedIn   GitHub

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 (TBD)
· 📄 arXiv PDF (TBD)

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.

Goal-Oriented LLM Agents with Tool Calling
Building models that decompose high-level user goals to call external APIs or tools.

LLM Dynamic Persona Modeling with Memory Update
Modeling user-specific behaviors and preferences using long-term memory representations and memory editing.

TEACHING ASSISTANT EXPERIENCE

Teaching Assistant for COSE 474: Deep Learning, Korea University

HONORS & AWARDS

Korea University Entrance Scholarship for Academic Excellence