

Wooseong Yang

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SUMMARY

PhD student at UIC | Industry research collaborator at W.W. Grainger | LLM agents, RAG, recommender systems | Available for internship: Spring 2027 – Fall 2027 (Jan – Dec 2027)

EDUCATION

University of Illinois at Chicago (UIC) — *Ph.D. in Computer Science (Advisor: Prof. **Philip S. Yu**)* Aug 2023 – (May 2027)
University of Texas at Dallas (UTD) — *M.S. in Computer Science (Advisor: Prof. **Latifur Khan**)* Aug 2021 – Aug 2023
• Thesis: Pre-trained Spanish Language Model for Political Conflict and Violence
Carnegie Mellon University (CMU) — *Visiting Scholar at LTI (Director: Prof. **Jamie Callan**)* Jan 2020 – Jul 2020
Sungkyunkwan University (SKKU) — *M.S. in Industrial Engineering (Advisor: Prof. **Mye Sohn**)* Mar 2019 – Feb 2021
• Thesis: Cross-domain Knowledge Transfer for Session-based Recommender Systems
Sungkyunkwan University (SKKU) — *B.S. in Systems Management Engineering* Mar 2013 – Feb 2019

SELECTED PUBLICATIONS

XBridge: Entity-Grounded Latent Bridge for Heterogeneous LLM Communication | **Wooseong Yang**, Wei-Chieh Huang, Weizhi Zhang, Yu Wang, Philip S. Yu, Junhyun Lee | *NeurIPS 2026*
Adaptive Candidate Retrieval with Dynamic Knowledge Graph Construction for Cold-Start Recommendation | **Wooseong Yang**, Weizhi Zhang, Yuqing Liu, Yuwei Han, Yu Wang, Junhyun Lee, Philip S. Yu | *arXiv 2026 (Under Review)*
A Survey of Agent Memory in the Second Half: Towards Self-Evolving and Long-Horizon Agents | Wei-Chieh Huang, Weizhi Zhang, Yueqing Liang, **Wooseong Yang**, Philip S. Yu, et al. | *TMLR 2026*
RECODE-H: A Benchmark for Research Code DEvelopment with Interactive Human Feedback | Chunyu Miao, Henry Peng Zou, Yanning Li, Yankai Chen, Yibo Wang, Fangxin Wang, Yifan Li, **Wooseong Yang**, Philip S. Yu, et al. | *ICLR 2026*
Subgraph-level Universal Prompt Tuning | Junhyun Lee, **Wooseong Yang**, Jaewoo Kang | *Information Sciences 2026*
LLMinit: A Free Lunch from Large Language Models for Selective Initialization of Recommendation | Weizhi Zhang, Liangwei Yang, **Wooseong Yang**, Henry Peng Zou, Yuqing Liu, Ke Xu, Sourav Medya, Philip S. Yu | *EMNLP Industry 2025*
Cluster-aware Item Prompt Learning for Session-based Recommendation | **Wooseong Yang**, Chen Wang, Zihe Song, Weizhi Zhang, Philip S. Yu | *IEEE BigData 2025*
Toward User Preference Alignment in LLM Recommendation via Explicit Context Feedback | Weizhi Zhang*, **Wooseong Yang***, Yuxin Cui, Zhaohui Guo, Hins Hu, Liangwei Yang, Philip S. Yu, et al. | *IEEE CogMI 2025 (*equal contribution)*
ConflIBERT Spanish: A Pre-trained Language Model for Spanish Politics, Conflict and Violence | **Wooseong Yang**, Sultan Alsarra, Luay Abdeljaber, Niamat Zawad, Zeinab Delaram, Javier Osorio, Latifur Khan, et al. | *IEEE CiSt 2023*

ONGOING RESEARCH & INDUSTRY PROJECTS

Agentic Knowledge Graph Reasoning for Retrieval-Augmented Recommendation | Mar 2026 – Present
• RL-based agentic KG reasoning to extract relevant evidence for LLM-based recommendation.
Retrieval-Augmented Generation for Industrial Product Search | Jan 2026 – Present
• Industry collaboration with **W.W. Grainger, Inc.** (Fortune 500); PI: Prof. **Moontae Lee**. Designing RAG pipelines and analyzing industrial product documents for large-scale catalog search.

ACADEMIC ACTIVITIES

[Reviewer] Data Mining Conferences |
• KDD 2024–2027 (multiple cycles); WWW 2025; RecSys 2024

SKILLS

Programming languages: Python, Java, C++, MATLAB | ML frameworks: PyTorch, TensorFlow, HuggingFace Transformers | LLM & RAG: LangChain, vLLM, FAISS | Languages: English, Korean