Wooseong Yang

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RESEARCH INTERESTS

Large Language Models, Agents, Recommender Systems

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** @ Language Technologies Institute (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: Source Domain Identification and Cross-domain Knowledge Transfer Method to Alleviate Data Sparsity Problem in Session-based Recommender Systems*
- **B.S.** in Systems Management Engineering   Mar 2013 – Feb 2019

PUBLICATIONS

Cold-Start Recommendation with Knowledge-Guided Retrieval-Augmented Generation | *Wooseong Yang, Weizhi Zhang, Yuqing Liu, Yuwei Han, Yu Wang, Junhyun Lee, Philip S. Yu* | *arXiv 2025 (Under Review)*

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 LLMs4All*

Subgraph-level Universal Prompt Tuning | *Junhyun Lee,* **Wooseong Yang***, Jaewoo Kang* | *arXiv 2025 (Under Review)*

ConfiBERT 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, Patrick Brandt, and Vito D'Orazio* |*7th IEEE Congress on Information Science and Technology (CiSt), 2023*

ConfiBERT Arabic: A Pre-trained Language Model for Arabic Politics, Conflict and Violence | *Sultan Alsarra, Luay Abdeljaber,* **Wooseong Yang***, Niamat Zawad, Latifur Khan, Patrick Brandt, Javier Osorio, and Vito D'Orazio* | *Recent Advances in Natural Language Processing, 2023*

Homogeneous Ensemble Instance Intervals Determination Method of Time Series Data Based on Granular Computing | *Jaewoong Kang,* **Wooseong Yang** *and Mye Sohn* | *International Journal of Machine Learning and Computing, 2020*

ONGOING RESEARCH PROJECTS

Agentic Knowledge Graph Reasoning for Retrieval-Augmented Recommendation |

- Conducting research on RL-based agentic KG reasoning to extract relevant information for recommendation.

ACADEMIC ACTIVITIES

[Reviewer] Data Mining Conferences |

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)   2024 - present
- The Web Conference (WWW)   2024 - present
- ACM Conference on Recommender Systems (RecSys)   2024 - present

SKILLS

Systems languages: Python, Java, C++, Matlab | ML frameworks: Pytorch, Tensorflow | Languages: English, Korean