

# Wooseong Yang

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## RESEARCH INTERESTS

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Large Language Models, Agents, Recommender Systems

## EDUCATION

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### 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

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**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 2025*

**Item Cluster-aware Prompt Learning for Session-based Recommendation** | **Wooseong Yang**, Chen Wang, Zihe Song, Weizhi Zhang, Philip S. Yu | *arXiv 2025 (Under Review)*

**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

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### Agentic Knowledge Graph Reasoning for Retrieval-Augmented Recommendation |

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

## ACADEMIC ACTIVITIES

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### [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

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