

# Wooseong Yang

Chicago, IL • 469-922-4463 • wyang73@uic.edu • <https://wooseongyang.github.io/>

## 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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**Rethinking Memory Mechanisms of Foundation Agents in the Second Half: A Survey** | Wei-Chieh Huang, Weizhi Zhang, Yueqing Liang, **Wooseong Yang**, et al. | arXiv 2026 (Under Review)

**RECODE: 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**, et al. | ICLR 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 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, et al. | IEEE 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 | RANLP 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

## ACADEMIC ACTIVITIES

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### [Reviewer] Data Mining Conferences |

- RecSys 2024; KDD 2024; KDD 2025 (1st Cycle); WWW 2025; KDD 2025 (2nd Cycle); KDD 2026 (2nd Cycle)

## SKILLS

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