

Woo-Seong Yun

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Summary

Passionate about **recommender systems** and enjoy developing sophisticated models utilizing VAE, GCN, LLM, and other advanced technologies. My interests include : 1) Design a model that alleviates popularity bias through advanced representation learning and provides a more accurate understanding of user preferences. 2) Developing technology that enables effective recommendations in cold scenarios where new users or items are introduced. 3) Development of a state-of-the-art framework for aligning LLMs with recommender systems. I am passionate about exploring innovative solutions to challenging problems and continuously expanding my expertise by learning the latest technologies and tools.

Education

Chung-Ang University

M.S. IN ARTIFICIAL INTELLIGENCE

Seoul, Korea

Sep. 2023 - Aug. 2025

- GPA: 4.34/4.50
- Data Science Lab, advised by Prof. Yoon-Sik Cho.
- Master's thesis: Two Contrastive Approaches for Addressing the Long-Tail Problem in Recommender System.

Chung-Ang University

B.S. IN APPLIED STATISTICS

Seoul, Korea

Mar. 2018 - Aug. 2023

- GPA: 4.20/4.50
- Summa Cum Laude, Early Graduation

Publications

[C1] ARROW: Adaptive Reasoning for LLM-based Recommendation with Explainability

WSDM 2026

Woo-Seong Yun, Min-Seong Kim, and Yoon-Sik Cho

[C2] Rethinking Overconfidence in VAEs: Can Label Smoothing Help?

RecSys 2025

Woo-Seong Yun*, Yeojun Choi*, and Yoon-Sik Cho

[C3] Relational Alignment Graph Neural Network for Multimodal Recommendation

IEIE 2025

Woo-Seong Yun, Myungbin Kwak, Eunsun Kim, and Yoon-Sik Cho

[C4] Variational Autoencoder with Label Smoothing for Collaborative Filtering

KIIT 2024

Woo-Seong Yun, Yeonghyeon Kim, Chanwoo Jeong, Yeojun Choi, and Yoon-Sik Cho

[J1] Contrastive Disentangled Variational Autoencoder for Collaborative Filtering

IEEE Access

Woo-Seong Yun*, Seong-Min Kang and Yoon-Sik Cho

[J2] GCNs Meet Long-Tail: Embedding Norm Bias in GCN-Based Recommendations

Applied Soft Computing

Yeojun Choi, Woo-Seong Yun, Chanwoo Jeong, and Yoon-Sik Cho

[J3] Enhancing LLMs for Sequential Recommendation with Reversed User History and User Embeddings

IEEE Access

Yeojun Choi, Woo-Seong Yun, and Yoon-Sik Cho

Preprints

[P1] All Items are not Equal: Addressing the Imbalance of Item Knowledge in LLM for Recommendation

under review

Woo-Seong Yun*, Yeonghyeon Kim*, and Yoon-Sik Cho

[P2] LINKER: Leveraging Modality Knowledge for Semantic Relation Generation in Multimodal Recommendation

under review

MYUNGBIN KWAK*, WOO-SEONG YUN*, AND YOON-SIK CHO

[P3] REFORM: Residual Filtering through Neural Aggregators for Layer-Wise Representation Integrity

under review

SEONG-MIN KANG, WOO-SEONG YUN*, NA-HYUN LEE*, SEONGWOO PARK AND YOON-SIK CHO

Projects

LG HE PROJECT

CORPORATE ASSIGNMENT PROJECT

Jul. 2024 - Dec.2024

- Development of a 'sequence-aware recommender system' using TV watching data.
- Collaborated with Hanyang University DCX Lab as and participate as the **Project Manager** at Chung-Ang University.
- Assisted in experiments with sequential recommendation models such as SASRec and Bert4Rec.
- Applied sequence augmentation techniques to mitigate data scarcity issues.

Hyundai Glovis Project

CORPORATE ASSIGNMENT PROJECT

Apr. 2023 - Dec.2023

- Development of an AI model for recommending packaging specifications and automating MH calculation.
- Built a packaging recommendation model using an ensemble of data matching and similarity models.
- Identified key factors and examined the impact of each variable through feature analysis.
- Achieved 95% prediction accuracy.

Restaurant Recommendation Chatbot

HANIUM AI PROJECT, SHINHAN CARD Co.

Mar. 2022 - Dec.2022

- Development of a system that recommends restaurants to consumers with diverse social values.
- Implementation of a rule base recommender system based on various scenarios using Dialogflow.
- Built a pipeline connecting Dialogflow, KakaoTalk, and a database using Python.

Awards & Scholarships

2025 **Gold Prize for Best Paper Award in Special Session of IEIE**, Chung-Ang University AI Graduate School

2023-2025 **CAU GRS Scholarship**, Chung-Ang Graduate School

2023 **Summa Cum Laude Honor**, Chung-Ang University

2018 **Academic Excellence Scholarship**, Chung-Ang University

Extracurricular Activities

Undergraduate Research

Seoul, Korea

DATA SCIENCE LAB (PROF. YOON-SIK CHO)

Dec. 2022 - Jul. 2023

- Participation in the Hyundai Glovis Project – Packaging specification recommendation team.
- Assistance in research experiments on state-of-the-art recommender systems utilizing Deep Neural Networks.

COSADAMA

Seoul, Korea

CORE MEMBER

Mar. 2022 - Dec. 2022

- Participation in a project analyzing factors influencing Korean Stock Prices.
- Assistance in Elementary Statistics and Python Course.
- Completed Data Science, Machine Learning, SQL, Web Crawling Course.

NK Statistical Programming

Seoul, Korea

NAMKANG HIGH SCHOOL TUTOR

Jul. 2021 - Jul. 2023

- Designed and conducted an R-based statistical programming course for high school students.
- Assistant for students' capstone projects.

Qualifications

ADsP

Word Processor

Korean History Proficiency Test : Level 1