

Research Interests

Post-Training of Language Models: developing techniques to enhance the various capabilities of language models by making post-training environments scalable.

Machine Learning on Graphs: designing algorithms for analyzing and discovering useful information from real-world graphs by exploiting properties of the graphs.

Education

Master of Science, Computer Science and Engineering MAR. 2016 – FEB. 2018

Seoul National University

Thesis: [Pre-partitioned Matrix-Vector Multiplication for Scalable Graph Mining](#) ↗

Advisor: U Kang

Bachelor of Science, Earth System Sciences MAR. 2010 – FEB. 2016

Bachelor of Engineering, Computer Science (Double Major)

Yonsei University

Work Experiences

Machine Learning Engineer at NAVER Cloud DEC. 2025 – PRESENT

- To be updated soon.

Applied Machine Learning Engineer at Kakao APR. 2018 – DEC. 2025

- Involved in building [AI Mate](#) ↗, a conversational agent designed to deliver personalized recommendations and assistance across various Kakao services.
 - Designed and implemented a language model fine-tuning technique for workflow graph-based agents with multiple system prompts, crucially ensuring they function without interfering with each other.
 - Performed extensive evaluations of various language models in terms of their agentic capabilities in real-world scenarios, including task accuracy, output format adherence, and response quality.
 - Implemented a versatile LLM inference system leveraging multiple backend engines, including vLLM, SGLang, and TensorRT-LLM.
 - Co-authored and published research papers at [ACL 2025 \(Industry Track\)](#) ↗ and [ICLR 2026](#) ↗.
- Built and maintained machine learning applications for several Kakao services, including Daum, Kakao Webtoon, KakaoTalk Gift, ShoppingHow, and Piccoma.
- Led a research unit of 10+ members, responsible for developing and maintaining machine learning applications across various Kakao services (OCT. 2019 - DEC. 2023).
 - Mentored the members, resulting in significant key metric improvements across several services.
 - Led research initiatives that resulted in presentations at various academic and industrial venues, including [RecSys'22 Challenge](#) ↗, [KDD Cup'22](#) ↗, [KCC 2022](#) ↗, [SIGIR'23](#) ↗, and multiple if(kakao) events ([2019](#) ↗, [2020](#) ↗, [2021](#) ↗, [2022](#) ↗).
- Contributed to the recruitment process, conducting 80+ interviews and operating internship programs.
 - Designed and operated a team-level internship program that was later adopted as the foundation for Kakao's company-wide internship program.

Publications (* = equal contribution)

OrchestrationBench: LLM-Driven Agentic Planning and Tool Use in Multi-Domain Scenarios

Aelim Ahn, Sooyeon Lee, Hyosun Wang, [Chiwan Park](#), Daeryong Kim, Jihyeon Roh, Kichang Yang, Wonjun Jang, Hwang Woosung, Min Seok Kim, and Jihoon Kang
The 14th International Conference on Learning Representations (ICLR), 2026

A Practical Approach for Building Production-Grade Conversational Agents with Workflow Graphs

[Chiwan Park*](#), Wonjun Jang*, Daeryong Kim*, Aelim Ahn, Kichang Yang, Woosung Hwang, Jihyeon Roh, Hyerin Park, Hyosun Wang, Min Seok Kim, and Jihoon Kang
The 63rd Annual Meeting of the Association for Computational Linguistics (ACL), 2025 (Industry Track)

Simple and Efficient Recommendation Strategy for Warm/Cold Sessions for RecSys Challenge 2022

Hyunsung Lee, Sungwook Yoo, Andrew Yang, Wonjun Jang and [Chiwan Park](#)
RecSys Challenge Workshop at the 16th ACM Conference on Recommender Systems (RecSys), 2022

FlexGraph: Flexible partitioning and storage for scalable graph mining

[Chiwan Park](#), Ha-Myung Park and U Kang
PLoS ONE 15(1): e0227032

PegasusN: A Scalable and Versatile Graph Mining System

Ha-Myung Park, [Chiwan Park](#), and U Kang
The 32nd AAAI Conference on Artificial Intelligence (AAAI) 2018 (Demo Paper)

A Distributed Vertex Rearrangement Algorithm for Compressing and Mining Big Graphs

Namyong Park, [Chiwan Park](#), and U Kang
Journal of KIISE (Domestic), Vol. 43, No. 10, pp. 1131-1143, 2016.

Patents

U Kang, [Chiwan Park](#), Ha-Myung Park, Minji Yoon, "Method and Apparatus for Scalable Graph Mining using Graph Pre-partitioning", Korean patent number: 10-1990735 (filed on Mar. 30, 2018, and registered on Jun. 12, 2019).

Teaching Experiences

Teaching Assistant, Basic Math for Big Data at SNU BDI Academy	SUMMER 2017
Teaching Assistant, M1522.001400 Introduction to Data Mining at SNU	SPRING 2017
Teaching Assistant, M1522.000900 Data Structures at SNU	FALL 2016

Talks

Challenges in Real-world Recommender Systems ↗ KCC 2022, Jeju, Korea	JUN. 2022
상품 카탈로그 자동 생성 ML 모델 소개 ↗ if kakao(dev) 2019, Seoul, Korea	AUG. 2019
학교에선 알려주지 않는 오픈 소스 이야기 ↗ NAVER 4th D2 Campus Seminar, Seongnam, Korea	FEB. 2016
Introduction to Apache Flink ↗ Open-source Software Developer Center Conference, Seoul, Korea	DEC. 2015
Lessons Learned from Open-source Activities ↗ The 14th Northeast Asia OSS Promotion Forum, Tokyo, Japan	NOV. 2015

Last updated: March 2, 2026