

RESEARCH
INTEREST

My research focuses on leveraging the interaction between Large Language Models (LLMs) and Search Systems to address challenges in information retrieval and real-world applications. More broadly, I am also interested in natural language understanding and its applications.

MILITARY
SERVICE

Currently applying for the **Alternative Military Service**

EDUCATION

Seoul National University
M.S. in Artificial Intelligence
GPA: 3.86 / 4.3.

Seoul, Korea
Sep 2023 – Present

Korea Advanced Institute of Science and Technology (KAIST)
B.S. in Computer Science
GPA: 3.46 / 4.3. Major GPA: 3.52 / 4.3

Daejeon, Korea
Mar 2018 – Aug 2023

EMPLOYMENT

Graduate student, SNU BDAI Lab
Advisor: Prof. Sung Zoon Cho

Sep 2023 - Present

- Conducting research on LLM-powered information retrieval systems
- Conducting research on Conversational Product Search Agents
- Conducted research on Search-based unsafe prompts classification frameworks for LLMs

Research Intern, Coxwave

Jan 2024 - Mar 2024

- Conducted research on LLM security

Undergraduate Research Assistant, KAIST NLP*CL Lab

Sep 2022 - Aug 2023

- Conducted research on prompt tuning for language models

Undergraduate Research Assistant, KAIST COINSE Lab

Jun 2022 - Jul 2022

- Conducted research on Fault Localisation for software systems

PUBLICATIONS

International Publications

[1] Upcycling Candidate Tokens of Large Language Models for Query Expansion
[Jinseok Kim](#), Sukmin Cho, Soyeong Jeong, Sangyeop Kim, and Sungzoon Cho
Under review

[2] LLM-guided Plan and Retrieval: A Strategic Alignment for Interpretable User Satisfaction Estimation in Dialogue
Sangyeop Kim, Sohhyung Park, Jaewon Jung, [Jinseok Kim](#), Sungzoon Cho
North American Chapter of the Association for Computational Linguistics (**NAACL**), 2025.

[3] Safe-Embed: Unveiling the Safety-Critical Knowledge of Sentence Encoders
[Jinseok Kim](#)^{*}, Jaewon Jung^{*}, Sangyeop Kim, Sohyung Park, Sungzoon Cho
Workshop on Towards Knowledgeable Language Models (**KnowLLM @ ACL**), 2024.

Domestic Publications, mostly written in Korean

[1] Synergistic Query Reformulation via LLMs and MLM-based Query Encoding in SPLADE
[Jinseok Kim](#), Sooyeon hwang, Sukmin Cho, Soyeong Jeong, Sungzoon Cho
Korea Computer Congress (KCC), 2025.

[2] An Object-aware Auxiliary Module for Reference-free Image Caption Evaluation with a Large Multimodal Model
Sooyeon hwang, [Jinseok Kim](#), Gahgene Gweon
Korea Computer Congress (KCC), 2025.

[3] Controllable prompt tuning with relation dependent tokens
[Jinseok Kim](#), Sukmin Cho, Soyeong Jeong, and Jong C. Park
Korea Computer Congress (KCC), 2023.

HONORS AND AWARDS	AI fellowship from IPAI, SNU	Sep 2023 – Present
	Received the Best Project Award at Immersion Camp, KAIST	2022
	Project Title: Yunseol, Collaborative Multitasking Tool	
	Graduated with Honor, Posung High School	2017
EXTRA ACTIVITY	President of Team Line, KAIST Fitness Club	Jun 2021 - Jun 2023
	KAIST Immersion Camp: Intensive Programming and Startup • 4 projects related to android app, 3D Game, multi-tasking app	Dec 2021 - Jan 2022
TEACHING	Seminar in Industrial Engineering (Data Analytics by Industrial engineering)	
	SNU Spring 2025 (Teaching Assistant)	
	Data Science Training for Professionals in the Field (HANA, NH, Shinhan, JW, SNUBH)	
	SNU BDAI Lab Fall 2023 – Spring 2025 (Teaching Assistant)	
	HANA bank software project	
	KAIST Fall 2021, Spring 2023 (Teaching Assistant)	
SKILLS	Languages: Korean (mother tongue), English (Advanced)	
	Programming: Python, C, C++, Java	