# Jaehyeok Lee/이재혁/李在赫

Ph.D. student
Sungkyunkwan University, Suwon, South Korea
hjl8708@skku.edu
https://jaehyeoklee-119.github.io/

## RESEARCH INTERESTS

I am broadly interested in building AI systems that can reason and act robustly and efficiently in real-world scenarios. I also explore how to equip these systems with human values and emotions.

## EDUCATION

**Sungkyunkwan University**, Suwon, South Korea                                      Mar 2025 — *Present*
Doctor of Philosophy, Artificial Intelligence
Advisor: Prof. JinYeong Bak

**SungKyunKwan University**, Suwon, South Korea                                      Mar 2023 — Feb 2025
Master of Science, Artificial Intelligence                                      Cumulative GPA: 4.36/4.50
Advisor: Prof. JinYeong Bak

Thesis: Improving LLMs' Reasoning with Consistency-Driven Rationale Evaluation for Self-Training
Thesis committee: Prof. JinYeong Bak, Prof. Yun-Gyung Cheong, and Prof. Jongwuk Lee.

**Sungkyunkwan University**, Suwon, South Korea                                      Mar 2017 — Feb 2023
Bachelor of Science, Double Major: Computer Science and Engineering, Chemical Engineering    Cumulative GPA: 3.75/4.50

## PUBLICATIONS

[1] Sooyung Choi*, **Jaehyeok Lee**\*, Xiaoyuan Yi, Jing Yao, Xing Xie, and JinYeong Bak. Unintended harms of value-aligned LLMs: Psychological and empirical insights, 2025. (ACL 2025; To appear).

[2] **Jaehyeok Lee**, Keisuke Sakaguchi, and JinYeong Bak. Self-training meets consistency: Improving LLMs' reasoning with consistency-driven rationale evaluation, 2025. (NAACL 2025).

[3] **Jaehyeok Lee**, DongJin Jeong, and JinYeong Bak. Enhancing emotion-cause pair extraction in conversation with contextual information. December 2023.

## EXPERIENCES

Practical Lecture on Natural Language Processing and Fundamentals
Military Specialized AI Professional Training Course, Fall 2023

Building Korean Text Detoxification Parallel Dataset
Collaboration with KT, Fall 2023

## PATENTS

Dongjin Jeong, JinYeong Bak, and **Jaehyeok Lee**. Device and method for generating emotion-cause pair based on conversation, and storage medium storing instruction to perform method for generating emotion cause pair. U.S. Patent Application No. 18/763,073.

## PROGRAMMING SKILLS

- GitHub repositories: https://github.com/JaehyeokLee-119

## EXTRACURRICULAR ACTIVITIES

Assistant. Optimistic, Pessimistic and Realistic of Large Language Models                                      KOFST, 2023

# REFERENCES

Prof. JinYeong Bak, SKKU, jy.bak@skku.edu