

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

- Languages and Frameworks: C, C++, Python, Java, JavaScript, PyTorch, Android
- 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