

Jaehyeok Lee/이재혁/李在赫

Ph.D. student

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RESEARCH INTERESTS

My research interests lie in machine learning and natural language processing, with a particular focus on enhancing the reasoning ability of large language models and leveraging it for applications such as autonomous AI agents.

EDUCATION

Sungkyunkwan University, Suwon, South Korea

Mar 2025 —

Doctor of Philosophy, Artificial Intelligence

SungKyunKwan University, Suwon, South Korea

Mar 2023 — Feb 2025

Master of Science, Artificial Intelligence

Cumulative GPA: 4.36/4.50

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

- Language: Python, C, C++, Java, JavaScript
- 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