

Gahyun Yoo

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Education

Seoul National University, Graduate School of Data Science

MS/PHD INTEGRATED DEGREE

- Advisor: Jay-Yoon Lee

Seoul, Republic of Korea

September 2025 -

Seoul National University

BS UNDERGRADUATE DEGREE

- Majors: Linguistics & Computer Science

Seoul, Republic of Korea

2020 - 2025

Experience

DeepAuto

AI ENGINEER INTERN

- Multi-Agent Reinforcement Learning.

Seoul, Republic of Korea

April - July 2026

SKI-ML Lab, Graduate School of Data Science, Seoul National University

UNDERGRADUATE RESEARCH INTERN

- Research project on applying energy based training with quality estimators as score models for low resource machine translation. Resulted in COLING 2025 publication.

Seoul, Republic of Korea

March 2023 - August 2025

NCSOFT NLP Center

RESEARCH INTERN

- Developed an efficient decision tree algorithm based on linguistic features, word alignment, and multilingual knowledge graphs for distinguishing literal and non-literal translation.

Pangyo, Republic of Korea

July - August 2022

Publications

PUBLISHED

Gahyun Yoo, Jay-Yoon Lee. 2025. Improving NMT Models by Retrofitting Quality Estimators into Trainable Energy Loss. International Conference on Computational Linguistics (COLING)

Seung-Woo Choi, **Gahyun Yoo**, Jay-Yoon Lee. 2025. BridG MT: Enhancing LLMs' Machine Translation Capabilities with Sentence Bridging and Gradual MT. Association for Computational Linguistics (ACL Findings)

UNDER REVIEW

Hanjun Cho, **Gahyun Yoo**, Hanseong Kim, Jay-Yoon Lee. 2025. Generalizing Numerical Reasoning in Table Data through Operation Sketches and Self-Supervised Learning. Transactions of the Association for Computational Linguistics (TACL)

Awards

- 2021 **EFL 8th Best Speaker, SNUDA X KNC 2021 (Iniversity Debate Championship)**, Korea Intersivity Debate Association
- 2014 **Bronze Medal, Korean Mathematical Olympiad**, Korean Mathematical Society

Presentations

INVITED TALKS

Feb 2025. Research Seminar @ Kakao Mobility

Extracurriculars

ACTIVITIES

- 2023 **AttentionX: Artificial Intelligence Research Group**, Member
- 2021-2023 **Waffle Studio (Seoul National University Web Development Club)**, Member
- 2020-2021 **SNUDA (Seoul National University Debate Club)**, Member, Finance Minister