JaeHyeon Cho

Researcher
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EDUCATION

Mar. 2018 ~ Feb. 2024	**Kyung Hee University** Department of Mathematics *B.S. in Mathematics* GPA: 3.8 / 4.3	Seoul, Korea
Mar. 2024 ~ Feb. 2026	**Korea University** Department of Artificial Intelligence *M.S. in Artificial Intelligence* GPA: 4.44 / 4.5	Seoul, Korea

RESEARCH INTERESTS

- Reinforcement Learning from Human Feedback (RLHF)
- Natural Language Processing (NLP)
- Retrieval Augmented Generation (RAG)

PUBLICATIONS

1. **Jae Hyeon Cho**,Minkyung Park,Byungjun Lee, "VPO: Leveraging the Number of Votes in Preference Optimization", *COMPUTATIONAL LINGUISTICS*, (2025), Citation: 4
2. **Jae Hyeon Cho**, JunHyeok Oh, Myunsoo Kim, Byung-Jun Lee, "Rethinking DPO: The Role of Rejected Responses in Preference Misalignment", *FINDINGS OF EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING, (2025), Citation: 6*
3. Minkyeong Jeon*, Hyemin Jeong*, Yerang Kim, Jiyoung Kim, **Jae Hyeon Cho**, Byung-Jun Lee, "K/DA: Automated Data Generation Pipeline for Detoxifying Implicitly Offensive Language in Korean", *THE 63RD ANNUAL MEETING OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS*, (2025), Citation: 1
4. Seong-Woong Shim, Myunsoo Kim, **Jae Hyeon Cho**, Byungjun Lee, "Beyond RAG vs. Long-Context: Learning Distraction-Aware Retrieval for Efficient Knowledge Grounding", *THE INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATIONS*, (2026), Citation: 1

PROJECTS

- Development of a P&ID Diagram Recognition Model for S-OIL, LG CNS, Korea / Developed a

deep learning model to identify and associate pipelines with corresponding text labels i (Jan. 2026 ~ Present)

- Preference Optimization for Language Models via Reinforcement Learning, Samsung Electronics, Korea / Designed algorithms and formulated preference optimization methods; implemented and trained models (Dec. 2023 ~ Dec. 2024)
- Interpretable Chess Agent via Reinforcement Learning, DM Lab, Korea (Mar. 2025 ~ Present)

TEACHING EXPERIENCE

Mentor, Data Expert Program (DxP) 3rd (for Hana Financial Group) — Sep. 2025 – Nov. 2025

Teaching Assistant

- Natural Language Processing, Korea University — Sep. 2024 - Dec. 2025
- SW Programming Basics, Korea University — May. 2025 - Jun. 2025

INTERNSHIP

Decision Making Lab (Led by Professor Byung-Jun Lee)

- Undergraduate Researcher — Sep. 2023 – Feb. 2024

SCHOLARSHIP

- Academic Excellence Scholarship, Kyung Hee University, Feb. 2023
- Academic Excellence Scholarship, Kyung Hee University, Aug. 2023

LANGUAGE SKILLS

- English: TOEIC SPEAKING - IH, TEPS - 357

SKILLS AND TECHNIQUES

- Python
- Pytorch
- Docker
- Linux
- Huggingface