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Redwood City, California, US

Education

KAIST (Korea Advanced Institute of Science and Technology)

Seoul, S.Korea

MASTER'S DEGREE IN GRADUATE SCHOOL OF ARTIFICIAL INTELLIGENCE

Sep. 2023 - Aug. 2025

• GPA: 4.12 / 4.3 (Supervised by Professor James Throne)

Seoul, S.Korea

SKKU (SungKyunKwan University)

BACHELOR'S DEGREE IN STATISTICS & INDUSTRIAL ENGINEERING

Mar. 2017 - Feb. 2023

• GPA: 4.38 / 4.5 (Summa Cum Laude)

Industry Experiences_

Amazon Palo Alto, CA, US

APPLIED SCIENTIST INTERN

May. 2025 - Present

• Topic: Multi-objective steerability injection in LLMs via reinforcement learning and closing the Reward-Benchmark Gap.

Naver Cloud Seoul, S.Korea

Al Research Scientist Intern

Feb. 2025 - May. 2025

- Topic: Core contributor in developing a proprietary large-scale reasoning model, HyperCLOVA X THINK.
- · Built a theoretical background in applying online difficulty filtering in Reinforcement learning with verifiable rewards (RLVR) for maximum efficiency.

Publications

Selected Works

ORPO: Monolithic Preference Optimization without Reference Model

JIWOO HONG, NOAH LEE & JAMES THORNE

Topic: Offline Preference Learning

On the Robustness of Reward Models for Language Model Alignment

ICML 2025

JIWOO HONG, NOAH LEE, EUNKI KIM, GUIJIN SON, WOOJIN CHUNG, AMAN GUPTA, SHAO TANG, & JAMES THORNE

Topic: RLHF, Generalizability

Online Difficulty Filtering for Reasoning Oriented Reinforcement Learning

Preprint

SANGHWAN BAE*, JIWOO HONG*, MIN YOUNG LEE, HANBYUL KIM, JEONGYEON NAM, & DONGHYUN KWAK

Topic: RLVR, Reasoning

2025

HyperCLOVA X THINK Technical Report

NAVER CLOUD HYPERCLOVA X TEAM, CORE CONTRIBUTOR

Technical Report **Topic**: Proprietary Reasoning Model

When AI Co-Scientists Fail: SPOT-a Benchmark for Automated Verification of **Scientific Research**

Under Review for NeurIPS 2025

GUIJIN SON, JIWOO HONG, HONGLU FAN, HEEJEONG NAM, HYUNWOO KO, SEUNGWON LIM, JINYEOP SONG, JINHA Choi, Gonçalo Paulo, Youngjae Yu, & Stella Biderman

Topic: Al for Science

On the Robustness of Reward Models for Language Model Alignment

JIWOO HONG, NOAH LEE, EUNKI KIM, GUIJIN SON, WOOJIN CHUNG, AMAN GUPTA, SHAO TANG, & JAMES THORNE

AlphaPO: Reward Shape Matters for LLM Alignment

ICML 2025

ACL 2025

ICMI 2025

Aman Gupta, Shao Tang, Qingquan Song, Sirou Zhu, Jiwoo Hong, Ankan Saha, Viral Gupta, Noah Lee, Eunki Kim, Siyu Zhu, Parag Agrawal, Natesh Pillai, & S. Sathiya Keerthi

Topic: RLHF, Interpretability

Topic: RLHF, Generalizability

Linguistic Generalizability of Test-Time Scaling in Mathematical Reasoning

Topic: Reasoning, Multilingual

Guijin Son, **Jiwoo Hong**, Hyunwoo Ko, & James Thorne

Online Difficulty Filtering for Reasoning Oriented Reinforcement Learning

SANGHWAN BAE*, JIWOO HONG*, MIN YOUNG LEE, HANBYUL KIM, JEONGYEON NAM, & DONGHYUN KWAK

Preprint **Topic**: RLVR, Reasoning

Cross-lingual Transfer of Reward Models in Multilingual Alignment

JIWOO HONG*, NOAH LEE*, RODRIGO MARTÍNEZ-CASTAÑO, CÉSAR RODRÍGUEZ, & JAMES THORNE

NAACL 2025

Topic: RLHF, Generalizability

2024

ORPO: Monolithic Preference Optimization without Reference Model

JIWOO HONG, NOAH LEE & JAMES THORNE

EMNLP 2024

Topic: Offline Preference Learning

Stable Language Model Pre-training by Reducing Embedding Variability

Woojin Chung, **Jiwoo Hong**, Na Min An, James Thorne, & Se Young Yoon

EMNLP 2024

Topic: Pre-training

Margin-aware Preference Optimization for Aligning Diffusion Models without

Reference

JIWOO HONG*, SAYAK PAUL*, NOAH LEE, KASHIF RASUL, JAMES THORNE & JONGHEON JEONG

ICLR 2025 SCOPE Workshop

Topic: RLHF, Diffusion

Evaluating the Consistency of LLM Evaluators

NOAH LEE*, JIWOO HONG*, & JAMES THORNE

COLING 2025

Topic: LLM-as-a-Judge

2023

Disentangling Structure and Style: Political Bias Detection in News by Inducing Document Hierarchy

JIWOO HONG, YEJIN CHO, JAEMIN JUNG, JIYOUNG HAN & JAMES THORNE

Findings of EMNLP 2023

Topic: NLP Application

2022

MARL-Based Dual Reward Model on Segmented Actions for Multiple Mobile

Robots in Automated Warehouse Environment

Applied Science

Topic: Multi-agent RL

Additional Experiences

HYEOKSOO LEE, JIWOO HONG & JONGPIL JEONG

Multiple Invited Talks on LLM Alignment

Seoul, S.Korea

INVITED SPEAKER

- Talk on recent alignment techniques and ORPO at:
- (1) Kakao Brain, (2) AI EXPO Korea, (3) KISTI (Korean Institute of Science and Technology Information), (4) Tweleve Labs,
- and (5) Trillion Parameter Consortium Seminar.

Zephyr-ORPO Project

Seoul, S.Korea

OPEN-SOURCE LANGUAGE MODEL DEVELOPMENT

April. 2024

- Developing data-efficient open-recipe instruction-following LLMs with fine-grained synthetic data and Mixtral-8x22B-v0.1.
- In collaboration with Argilla and Hugging Face, published Zephyr-ORPO-141B-A35B-v0.1.

HyperCLOVA X THINK

Seoul, S.Korea

RLVR PIPELINE DEVELOPMENT IN PROPRIETARY LARGE REASONING MODEL

Feb.-May. 2025

- · Participated in developing a proprietary large-scale reasoning model, HyperCLOVA X THINK, specialized in Korean.
- Presented theoretical background on online difficulty filtering in reinforcement learning with verifiable rewards (RLVR), contributing
 to sample-efficient improvements in complex reasoning tasks.

ML/NLP Conference Reviewer

REVIEWER

Nov. 2024 - Present

- TMLR
- ICLR 2025
- ACL Rolling Review (Since February, 2025)