

AI Scientist with real hands-on experience helping build and improve foundation LLMs, contributing across multiple model release cycles through post-training, evaluation, and benchmark development.

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#### RESEARCH INTERESTS

Large Language Model (LLM) post-training, LLM evaluation and benchmarking, Synthetic data generation for LLMs, LLM reasoning and instruction-following

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#### EDUCATION

**M.S. in Computer Science and Engineering, Seoul National University**  
Advisor: Prof. Gunhee Kim

Mar. 2021 - Aug. 2023

**B.S. in Computer Science, Yonsei University**  
(*Highest Honor*)

Mar. 2014 - Feb. 2021

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#### WORK EXPERIENCES

**EXAONE Lab, LG AI Research**

Seoul, Korea

- *AI Scientist*

Nov. 2023 - Present

Contribute to post-training of foundation LLMs in the EXAONE series (1.2B–236B), publicly released on HuggingFace and used widely by researchers

- **LLM Post-training: Data Synthesis & Curation**

- \* Design and generate large-scale synthetic datasets for world knowledge, expert knowledge, instruction-following, and agentic search
- \* Work on dataset curation and aggregation including filtering, quality control, and mixture ratio optimization

- **LLM Evaluation & Benchmarking**

- \* Conduct end-to-end model evaluation to inform release decisions, including benchmark selection and internal evaluation framework development
- \* Perform cross-model comparative analysis across internal and external models
- \* Co-developed and publicly released Korean expert knowledge benchmark (KMMLU-Pro/Redux)
- \* Design challenging instruction-following benchmarks to stress-test advanced LLM capabilities

**Vision&Learning Lab, Seoul National University**

Seoul, Korea

- *Research Intern* (Advisor: Gunhee Kim)

Jun. 2020 - Feb. 2021

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#### TECHNICAL SKILLS

**Languages:** Python (primary), C++

**ML/LLM:** PyTorch, HuggingFace, large-scale data processing

**LLM:** post-training, evaluation, benchmark design, synthetic data generation

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#### PUBLICATIONS

**K-EXAONE Technical Report**

LG AI Research (*core contributor*)

*Arxiv preprint, 2026*

**EXAONE 4.0: Unified Large Language Models Integrating Non-reasoning and Reasoning Modes**

LG AI Research (*core contributor*)

**From KMMLU-Redux to KMMLU-Pro: A Professional Korean Benchmark Suite for LLM Evaluation**

Seokhee Hong\*, Sunkyoung Kim\*, Guijin Son, Soyeon Kim, Yeonjung Hong, Jinsik Lee  
*EMNLP 2025* (Findings)

**MANTA: A Scalable Pipeline for Transmuting Massive Web Corpora into Instruction Datasets**

Heuiyean Yeen, Seokhee Hong, Hyeongu Yun, Jinsik Lee  
*EMNLP 2025* (Findings)

**EXAONE Deep: Reasoning Enhanced Language Models**

LG AI Research (*core contributor*)  
*Arxiv preprint, 2025*

**EXAONE 3.5: Series of Large Language Models for Real-world Use Cases**

LG AI Research (*core contributor*)  
*Arxiv preprint, 2024*

**EXAONE 3.0 7.8B Instruction Tuned Language Model**

LG AI Research (*core contributor*)  
*Arxiv preprint, 2024*

**Who Wrote this Code? Watermarking for Code Generation**

Taehyun Lee\*, Seokhee Hong\*, Jaewoo Ahn, Ilgee Hong, Hwaran Lee, Sangdoo Yun, Jamin Shin<sup>†</sup>, Gunhee Kim<sup>†</sup>  
*ACL 2024*

**SQuARe: A Large-Scale Dataset of Sensitive Questions and Acceptable Responses Created Through Human-Machine Collaboration**

Hwaran Lee\*, Seokhee Hong\*, Joonsuk Park, Takyung Kim, Meeyoung Cha, Yejin Choi, Byoung Pil Kim, Gunhee Kim, Eun-Ju Lee, Yong Lim, Alice Oh, Sangchul Park, Jung-Woo Ha  
*ACL 2023 (Oral)*

**KoSBI: A Dataset for Mitigating Social Bias Risks Towards Safer Large Model Application**

Hwaran Lee\*, Seokhee Hong\*, Joonsuk Park, Takyung Kim, Gunhee Kim, Jung-Woo Ha  
*ACL 2023 (Industry Track)*

**How Robust are Fact Checking Systems on Colloquial Claims?**

Byeongchang Kim\*, Hyunwoo Kim\*, Seokhee Hong, Gunhee Kim  
*NAACL 2021*

\* : equal contribution / <sup>†</sup> : corresponding authors

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**AWARDS AND HONORS**

<b>Outstanding Reviewers, EMNLP 2024</b>	Nov 2024
<b>Graduated with Highest Honor, Yonsei University, Korea</b>	Feb 2021
<b>National Science and Technology Scholarship (full tuition)</b> , Ministry of Science, Korea	Fall 2019, Fall 2020

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**TEACHING EXPERIENCE**

Teaching Assistant of Samsung DS Reinforcement Learning	Spring 2022, Spring 2023
Teaching Assistant of Computer Vision (M1522.001000)	Fall 2021
Teaching Assistant of Graduate Artificial Intelligence (M4190.569)	Spring 2021

ACADEMIC SERVICES

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ACL ARR Reviewer

2023 - Present