

SEOKHEE HONG

seokhee.hong@lgresearch.ai hongcheiki@gmail.com hongcheiki.github.io

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.

RESEARCH INTERESTS

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

EDUCATION

M.S. in Computer Science and Engineering, Seoul National University Mar. 2021 - Aug. 2023
Advisor: Prof. Gunhee Kim

B.S. in Computer Science, Yonsei University Mar. 2014 - Feb. 2021
(*Highest Honor*)

WORK EXPERIENCES

EXAONE Lab, LG AI Research Seoul, Korea
Nov. 2023 - Present

- *AI Scientist*

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
Jun. 2020 - Feb. 2021

- *Research Intern* (Advisor: Gunhee Kim)

TECHNICAL SKILLS

Languages: Python (primary), C++

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

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

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*)

Arxiv preprint, 2025

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

Heuiyeon 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†, Gunhee Kim†
ACL 2024

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

Hwaran Lee*, Seokhee Hong*, Joonsuk Park, Takyoun 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, Takyoun 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 / † : corresponding authors

AWARDS AND HONORS

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

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

