

Hyunseok Lee

🏠 <https://hyunseoklee-ai.github.io>
✉ david990330@gmail.com / hs.lee@kaist.ac.kr
🎓 Google Scholar 🌐 GitHub

RESEARCH INTERESTS	<p>My research interests lie in building intelligence that is self-aware and safe. To this end, I focus on developing Large Language Models (LLMs) that can reason, make decisions (i.e., exhibit agentic behaviors), and ensure safety. I am also broadly interested in the continual pretraining of LLMs and their multilingual capabilities.</p> <p>Keywords: LLM, LLM Reasoning, LLM-based Agents, LLM Safety</p>	
EDUCATION	<p>Ph.D. in Artificial Intelligence Korea Advanced Institute of Science and Technology (KAIST) Advisor: Jinwoo Shin</p> <p>B.S. in Electrical Engineering and Computer Science (double) Korea Advanced Institute of Science and Technology (KAIST)</p>	<p>Mar. 2024 - Present</p> <p>Mar. 2018 - Feb. 2024</p>
WORK EXPERIENCE	<p>Microsoft Research Asia, Research Intern with Soheil Abbasloo</p> <ul style="list-style-type: none">• Topic: LLM reasoning, Reinforcement Learning <p>NAVER Cloud, Research Intern with Kang Min Yoo</p> <ul style="list-style-type: none">• Topic: LLM reasoning, LLM Agents, Visual LM (VLM)	<p>Jul. 2025 - Present Beijing, CN</p> <p>Feb. 2025 - Jun. 2025 Seongnam, KR</p>
PUBLICATIONS	<p>* denotes equal contribution</p> <p>Preprints (available upon request)</p> <p>[P1] ReGUIDE: Data Efficient GUI Grounding via Spatial Reasoning and Search Hyunseok Lee, Jeonghoon Kim, Beomjun Kim, Jihoon Tack, Chansong Jo, Jaehong Lee, Cheonbok Park, Sookyo In, Jinwoo Shin, Kang Min Yoo</p> <p>Conferences</p> <p>[C2] ReVISE: Learning to Refine at Test-Time via Intrinsic Self-Verification Hyunseok Lee*, Seunghyuk Oh*, Jaehyung Kim, Jinwoo Shin, Jihoon Tack <u>ICML 2025</u></p> <p>[C1] ReMoDetect: Reward Models Recognize Aligned LLM's Generations Hyunseok Lee*, Jihoon Tack*, Jinwoo Shin <u>NeurIPS 2024</u></p> <p>Qualcomm Innovation Fellowship</p>	
HONORS	<p>Qualcomm Innovation Fellowship Korea 2024</p>	
INVITED TALKS	<p>“Large Scale LLM Training and Cloud Computing Usage” SKT Enterprise AIX CON Online (remote)</p> <p>“ReMoDetect: Reward Models Recognize Aligned LLM's Generations” Max Planck Institute for Security and Privacy (remote)</p>	<p>Dec. 2024</p> <p>Nov. 2024</p>

INDUSTRIAL PROJECT	Korean Multilingual LLM Training for Thesis Searching Service <ul style="list-style-type: none"> • LLM project with Nable Communications, the web service development company. The system will be deployed at the company's thesis searching service. • Developed a multilingual Korean LLM continually trained from Llama-3.1-8B (Korean LLM for Thesis) • Applied core LLM techniques in the system: (i) multilingual continual pretraining by entangling first language, (ii) data synthesis for thesis data to pretrain and post-train, and (iii) RAG-specific training. 	Mar. 2024 - Dec. 2024
ACADEMIC ACTIVITIES	Conference Review: NeurIPS Workshop Reviewer: Reasoning and Planning for LLMs@ICLR Teaching Assistant, "CS101: Introduction to Programming", KAIST	Spring & Fall 2023
TECH. SKILLS	Programming: Python, C Machine Learning: PyTorch, TensorFlow, huggingface transformers, deepspeed	
SOFTWARE	Open Source: PyTorch implementation and model <ul style="list-style-type: none"> • Korean LLM for Thesis Search • https://github.com/hyunseoklee-ai/ReMoDetect [C1] 	
REFERENCE	Jinwoo Shin , Professor at KAIST Contact: jinwoos@kaist.ac.kr Kangmin Yu , Research Lead at Naver Cloud Contact: kangmin.yoo@navercorp.com Soheil Abbasloo , Senior Researcher at Microsoft Research Contact: soheil.abbasloo@microsoft.com	

last update: July 2025