

Sangkyu Lee

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RESEARCH INTEREST

Embodied Agents, Multimodal Models, AI Alignment, Long-context Modeling, Continual Learning

EDUCATION

Yonsei University <i>M.S. in Artificial Intelligence (Multimodal Intelligence Research Lab, Advisor: <u>Youngjae Yu</u>)</i>	Mar. 2023 – Present <i>Seoul, Korea</i>
Yonsei University <i>B.A. in Applied Statistics, B.S. in Computer Science (Cumulative GPA: 4.06/4.3)</i>	Mar. 2021 – Feb. 2023 <i>Seoul, Korea</i>
Hanyang University <i>Major in Economics (Transferred, Includes a 2-Year Mandatory Military Service)</i>	Mar. 2017 – Feb. 2021 <i>Seoul, Korea</i>

PROFESSIONAL EXPERIENCE

Research Intern <i>Language Lab, LG AI Research</i>	Sep. 2024 – Present <i>Seoul, Korea</i>
<ul style="list-style-type: none">Researching adaptive length tokenization of visual modality for efficient autoregressive representationsInvestigating self-improvement of language models that do not require additional training of self-assessment	
Technical Lead <i>World Model for Robotics and Vehicle Control Team, maumAI</i>	Jan. 2024 – May 2024 <i>Seongnam, Korea</i>
<ul style="list-style-type: none">Led the development project of a world model for robotics agents and autonomous vehiclesResearched visual tokenizers aligned with text representations for fast adaptation of language models	
Research Intern <i>Foundation Research Team, Naver Cloud</i>	Jul. 2023 – Jan. 2024 <i>Seongnam, Korea</i>
<ul style="list-style-type: none">Participated in the alignment of HyperCLOVA X, a large language model specialized in KoreanResearched self-improvement of language models through LLM-as-a-judge	
Undergraduate Intern <i>Big Data Analytics and Learning Lab, Yonsei University (Advisor: <u>Noseong Park</u>)</i>	Jul. 2022 – Aug. 2022 <i>Seoul, Korea</i>
<ul style="list-style-type: none">Researched Neural Operators for the vision models to achieve resolution-free generative modelsInvestigated Stratonovich SDE for accelerating the reverse-time process of diffusion models	

PUBLICATIONS

SEAL: Entangled White-box Watermarks on Low-Rank Adaptation <i>Giyeong Oh, Saejin Kim, Woohyun Cho, <u>Sangkyu Lee</u>, Jiwan Chung, Dokyung Song, Youngjae Yu</i>	Under Review
MASS: Overcoming Language Bias in Image-Text Matching <i>Jiwan Chung, Seungwon Lim, <u>Sangkyu Lee</u>, Youngjae Yu</i>	Under Review
HyperCLOVA X Techinal Report <i>Kang Min Yoo, Jaegeun Han, Sookyo In, Heewon Jeon, Jisu Jeong, Jaewook Kang, Hyunwook Kim, et al.</i>	arXiv
Aligning Large Language Models by On-Policy Self-Judgment <i><u>Sangkyu Lee</u>, Sungdong Kim[†], Ashkan Yousefpour, Minjoon Seo, Kang Min Yoo, Youngjae Yu[†]</i>	ACL 2024

ACADEMIC ACTIVITIES

Reviewer, ICLR 2025 (Sep. 2024)
Teaching Assistant, AAI5012: Advanced Video Processing (Sep. 2023 – Dec. 2023)
Lecture Instructor, Samsung AI Specialist Course (Jul. 2023)

HONORS AND AWARDS

Honors, Yonsei University (Jan. 2022)