Sangkyu Lee

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RESEARCH INTEREST

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

EDUCATION

Yonsei University   Mar. 2023 – Present
M.S. in Artificial Intelligence (Multimodal Intelligence Research Lab, Advisor: Youngjae Yu)   *Seoul, Korea*

Yonsei University   Mar. 2021 – Feb. 2023
B.A. in Applied Statistics, B.S. in Computer Science (Cumulative GPA: 4.06/4.3)   *Seoul, Korea*

Hanyang University   Mar. 2017 – Feb. 2021
Major in Economics (Transferred, Includes a 2-Year Mandatory Military Service)   *Seoul, Korea*

PROFESSIONAL EXPERIENCE

Research Intern   Sep. 2024 – Present
Language Lab, LG AI Research   *Seoul, Korea*
- Researching adaptive length tokenization of visual modality for efficient autoregressive representations
- Investigating self-improvement of language models that do not require additional training of self-assessment

Technical Lead   Jan. 2024 – May 2024
World Model for Robotics and Vehicle Control Team, maumAI   *Seongnam, Korea*
- Led the development project of a world model for robotics agents and autonomous vehicles
- Researched visual tokenizers aligned with text representations for fast adaptation of language models

Research Intern   Jul. 2023 – Jan. 2024
Foundation Research Team, Naver Cloud   *Seongnam, Korea*
- Participated in the alignment of HyperCLOVA X, a large language model specialized in Korean
- Researched self-improvement of language models through LLM-as-a-judge

Undergraduate Intern   Jul. 2022 – Aug. 2022
Big Data Analytics and Learning Lab, Yonsei University (Advisor: Noseong Park)   *Seoul, Korea*
- Researched Neural Operators for the vision models to achieve resolution-free generative models
- Investigated Stratonovich SDE for accelerating the reverse-time process of diffusion models

PUBLICATIONS

SEAL: Entangled White-box Watermarks on Low-Rank Adaptation   Under Review
Giyeong Oh, Saejin Kim, Woohyun Cho, Sangkyu Lee, Jiwan Chung, Dokyung Song, Youngjae Yu

MASS: Overcoming Language Bias in Image-Text Matching   Under Review
Jiwan Chung, Seungwon Lim, Sangkyu Lee, Youngjae Yu

HyperCLOVA X Techinal Report   arXiv
Kang Min Yoo, Jaegeun Han, Sookyo In, Heewon Jeon, Jisu Jeong, Jaewook Kang, Hyunwook Kim, et al.

Aligning Large Language Models by On-Policy Self-Judgment   ACL 2024
Sangkyu Lee, Sungdong Kim[†], Ashkan Yousefpour, Minjoon Seo, Kang Min Yoo, Youngjae Yu[†]

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)