

Sangkyu Lee

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RESEARCH INTEREST

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

EDUCATION

Yonsei University Mar. 2023 – Present
M.S. in Artificial Intelligence (Advisor: [Youngjae Yu](#), CGPA: 4.15/4.30) Seoul, Korea

Yonsei University Mar. 2021 – Feb. 2023
B.A. in Applied Statistics, B.S. in Computer Science and Engineering (CGPA: 4.06/4.30) Seoul, Korea

Hanyang University Mar. 2017 – Feb. 2021
Major in Economics and Finance (Transferred, Includes a 2-year mandatory military service) Seoul, Korea

RESEARCH EXPERIENCE

Research Assistant Mar. 2023 – Present
Multimodal Intelligence Research Lab, Yonsei University (Advisor: [Youngjae Yu](#)) Seoul, Korea
Participating as a founding member and researching topics for robotics foundation models

Research Intern Sep. 2024 – Present
Language Lab, LG AI Research (Mentors: [Honglak Lee](#), [Hosung Song](#), [Janghoon Han](#)) Seoul, Korea
Researching direct alignment algorithms and autoregressive modeling for the vision modality

Technical Lead Jan. 2024 – May 2024
World Model for Robotics and Vehicle Control Team, maumAI Seongnam, Korea
Led the development project of the world foundation model for robotics and autonomous vehicles

Research Intern Jul. 2023 – Jan. 2024
Foundation Research Team, Naver Cloud (Mentors: [Kang Min Yoo](#), [Sungdong Kim](#)) Seongnam, Korea
Participated in the alignment of HyperCLOVA X and researched the self-alignment of large language models

Undergraduate Research Assistant Jul. 2022 – Aug. 2022
Big Data Analytics and Learning Lab, Yonsei University (Advisor: [Noseong Park](#)) Seoul, Korea
Researched Neural Operators and Stratonovich SDE for the reverse-time process of diffusion models

PUBLICATIONS

Conference Papers

[C3] Speaking Beyond Language: A Large-Scale Multimodal Dataset for Learning Nonverbal Cues from Video-Grounded Dialogues
Youngmin Kim*, Jiwan Chung*, Jisoo Kim, Sunghyun Lee, **Sangkyu Lee**, Junhyeok Kim, Cheoljong Yang and Youngjae Yu
[ACL 2025](#)

[C2] MASS: Overcoming Language Bias in Image-Text Matching
Jiwan Chung, Seungwon Lim, **Sangkyu Lee**, Youngjae Yu
AAAI 2025

[C1] Aligning Large Language Models by On-Policy Self-Judgment
Sangkyu Lee, Sungdong Kim*, Ashkan Yousefpour, Minjoon Seo, Kang Min Yoo, Youngjae Yu*
ACL 2024

Preprints & Technical Reports

[P2] KL Penalty Control via Perturbation for Direct Preference Optimization
Sangkyu Lee, Janghoon Han, Hosung Song, Stanley Jungkyu Choi, Honglak Lee, Youngjae Yu
arXiv

[P1] SEAL: Entangled White-box Watermarks on Low-Rank Adaptation
Giyeong Oh, Saejin Kim, Woohyun Cho, **Sangkyu Lee**, Jiwan Chung, Dokyung Song, Youngjae Yu
arXiv

[T1] HyperCLOVA X Techinal Report
HyperCLOVA X Team (Contributor; **Sangkyu Lee**)
arXiv

HONORS AND AWARDS

Partial Scholarship, Yonsei University (Mar. 2023)
Academic Honors, Yonsei University (Jan. 2022)

ACADEMIC SERVICES

Reviewer, ICLR (2025)

TEACHING EXPERIENCE

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

EXTRACURRICULAR ACTIVITIES

Student Society: Lead of Data Science Team, YBIGTA, Yonsei University (Mar. 2022 – Feb. 2023)
Club Activity: Band Leader (Lead Vocalist), SRGB, Hanyang University (Mar. 2017 – Feb. 2019)

SKILLS

Programming Languages: Python, C++, Java, R, MATLAB
Frameworks: PyTorch, PyTorch Lightning
Libraries: Transformers, TRL, Accelerate, DeepSpeed, vLLM, Diffusers, scikit-learn, Optuna
Math Coursework: Real Analysis, Mathematical Statistics, Linear Algebra, Numerical Analysis
Language Proficiency: Korean (Native), English (Fluent), Japanese (Fluent)