

Mingu Kang

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Welcome to Mingu Kang CV!

Currently, I am an undergraduate student majoring in Applied Artificial Intelligence at Sungkyunkwan University.

Research Interest : Multi-Modal, Robot Foundation Model, 3D Generation, Video Understanding

Education

Sungkyunkwan University, Seoul, Republic of Korea Mar 2022 – Present
BS in Applied Artificial Intelligence
◦ GPA: 4.31/4.5 (Overall), 4.46/4.5 (Major)

Experience

Graduate School of AI at KAIST, Seoul, Republic of Korea Aug 2024 – Oct 2024
Full-time Research Intern (Advisor: Beomjoon Kim)
Intelligent Mobile Manipulation Lab. [🔗](#)
◦ Conducted research on robot planning using 3D representations and large language models.

Sungkyunkwan University, Seoul, Republic of Korea Dec 2023 – Jul 2024
Part-time Research Intern (Advisor: Yusung Kim)
Computer System Intelligence Lab. [🔗](#)
◦ Conducted research on robot foundation models using diffusion models.

Publications

DisCoRD: From Discrete Tokens to Continuous Motion via Rectified Flow Decoding [🔗](#) Nov 2024

Jungbin Cho*, Junwan Kim*, Jisoo Kim, Minseo Kim, **Mingu Kang**, Sungeun Hong†, Tae-Hyun Oh†, Youngjae Yu†
Under review at The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025

Towards Efficient Continual Learning: Strategies on Utilizing Knowledge Distillation Loss Nov 2024

Euiseog Jeong*, **Mingu Kang***, MyeongSeop Kim*, Eunil Park†
Under review at The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025

Examination of Efficient Strategies on Knowledge Distillation Methods in Continual Learning Oct 2024

Euiseog Jeong, **Mingu Kang**, MyeongSeop Kim, Byungjoon Lee, Eunil Park†
Korean Institute of Information Scientists and Engineers

* Equal contribution. † Corresponding author.

Honors & Awards

Korea Water Resources Corporation President Award, AI competition Dec 2024
The 4th K-water AI Competition in 2024 : Development of an AI algorithm to detect abnormalities in the water supply network [🔗](#)

- Development of an AI model that can accurately detect the abnormal timing and leakage section of the water supply network.
- Top 0.2% (3 of 1156).

Korea Agro-Fisheries Food Trade Corporation Award , AI competition <i>Price Forecasting Competition Using Data · AI: Focusing on Agricultural Prices.</i> 🔗 <ul style="list-style-type: none"> ◦ Development of an AI model for agriculture price forecasting. ◦ Top 0.6% (10 of 1622). 	Nov 2024
Korea Computer Education President Award , AI Hackathon <i>2024 Capstone Design and AI Hackathon Competition</i> <ul style="list-style-type: none"> ◦ Development of text-to-3D motion generation model and web production for rehabilitation exercise. ◦ Top 2. 	Oct 2024
Hankuk University of Foreign Studies Presidential Award , AI competition <i>2024 SW-Centered University of Foreign Studies with Yongin City - GBT Hackathon Competition</i> <ul style="list-style-type: none"> ◦ Development of an AI model that classifies the categories of articles based on the title and text keywords of Yongin-si news. ◦ Top 2. 	Oct 2024
Sungkyunkwan University Artificial Intelligence Innovation and Convergence University Project Director Award , AI Hackathon <i>2024 Sungkyunkwan University AI Hackathon</i> <ul style="list-style-type: none"> ◦ Development of an AI model to detect illegal gambling advertisements on web pages. ◦ Top 2. 	Sep 2024
National Institute of Korean Language Award , AI competition <i>2024 National Institute of Korean Language Artificial Intelligence's Korean Language Proficiency Competition</i> 🔗 <ul style="list-style-type: none"> ◦ Development of an AI model to distinguish the context of conversations in a Korean large language model. ◦ Top 5. 🔗 	Aug 2024
Minister of Science and ICT Award , AI competition <i>SW-Centered University Digital Competition: AI Sector</i> <ul style="list-style-type: none"> ◦ Development of an AI model to detect the fake voice of the generating AI. 🔗 ◦ Top 0.1% (1 of 896). 🔗 	Aug 2024
Dean's List Award , High Scholastic Achievement <i>College of Computing and Informatics, Sungkyunkwan Univ</i> <ul style="list-style-type: none"> ◦ Top 1% for the fall semester 2023. 	Jul 2024

Scholarship

Presidential Science Scholarship , Engineering <i>President of the Republic of Korea</i> <ul style="list-style-type: none"> ◦ Selected as one of the Top 60 Countries for Developing World-Class Scientists 	Feb 2024
Excellence Performance Scholarship <i>AI Convergence and Open Sharing System, Sungkyunkwan Univ.</i> <ul style="list-style-type: none"> ◦ Recognized for Outstanding AI Performance. 	Jan 2024
Academic Excellence Scholarship for 2023 Fall Semester <i>College of Computing and Informatics, Sungkyunkwan Univ.</i> <ul style="list-style-type: none"> ◦ Achieved a 4.50/4.50 GPA for 20 Credits, Ranking in the Top 1% 	Dec 2023

Academic Excellence Scholarship for 2023 Spring Semester

College of Computing and Informatics, Sungkyunkwan Univ.

Aug 2023

- Achieved a 4.42/4.50 GPA for 18 Credits, Ranking in the Top 4%