

Jinsik Bang

PhD Student
Artificial Intelligence Graduate School, UNIST
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jinsikbang.github.io

EDUCATION

Mar. 2024 ~ Present	Ulsan National Institute of Science and Technology Graduate School of Artificial Intelligence <i>Advisor: Taehwan Kim</i> <i>Ph.D. Student</i> GPA: 4.1 / 4.3	Ulsan, Korea
Mar. 2017 ~ Mar. 2024	Tech University of Korea Department of Computer Engineering <i>B.S. in Computer Engineering</i> GPA: 4.28 / 4.5 <i>Cum Laude</i>	Siheung, Korea

RESEARCH INTERESTS

- Embodied AI
- Generative model
- Multimodal learning

PUBLICATIONS

1. **Jinsik Bang**, Jaeyeon Bae, Donggye Lee, Siyeol Jung, Taehwan Kim, "Environmental Understanding Vision-Language Model for Embodied Agent", *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Findings (CVPRF)*, (2026)
2. Taegyeong Lee*, **Jinsik Bang***, Soyeong Kwon, Taehwan Kim, "Multi-aspect Knowledge Distillation with Large Language Model", *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, (2025)

CONFERENCES

1. Somin Lee, **Jinsik Bang**, Taehwan Kim, "Trajectory-aware Success and Failure Experience Retrieval for VLM Agent", *Embodied AI Workshop on Computer Vision and Pattern Recognition Conference*, Denver, United States (Jun. 2026) - Poster
2. **Jinsik Bang**, Taehwan Kim, "Environmental Understanding Generation with M-LLM for Embodied AI", *Embodied AI Workshop on Computer Vision and Pattern Recognition Conference*, Seattle, United States (Jun. 2024) - Poster

PROJECTS

- Development of a Power Plant Domain-Specific VLA Model and Real-Time Robot Control Technology, UNIST, Korea (May. 2026 ~ Present)
- AI Star Fellowship, UNIST, Korea (Sep. 2025 ~ Present)
- Development of a Multimodal Indoor AI Agent for Proactive Human-AI Interaction, UNIST, Korea (Sep. 2025 ~ Present)
- Development of a Recycling Waste Sorting Robot Using a Multimodal Vision-Language Model, UNIST, Korea (Sep. 2025 ~ Feb. 2026)
- Multi-modal for Implementing Smart Home Agent, UNIST, Korea (Oct. 2024 ~ Dec. 2025)
- SMT Inspection System using Deep Learning, GRAND ICT Reserch Center, Korea / Data preprocessing and training classification models (May. 2022 ~ Dec. 2022)
- Development of a Precision Analysis Methodology for CTC Data Using AI Technology, Cytogen, Korea / Data mining on bio-images and developing classification algorithms (May. 2022 ~ Nov. 2022)

RESEARCH EXPERIENCES

- Research Student at Artificial Intelligence Graduate School, Ulsan National Institute of Science and Technology, Korea (Mar. 2024 ~ Present) / Research embodied agents and vision-language models
- Research Student at Department of Computer Engineering, Tech of university, Korea (May. 2022 ~ Dec. 2022)

AWARDS AND HONORS

- Academic Excellence Scholarship, Tech University of Korea, Korea (Nov. 2022)
- Full-tuition Scholarship, Tech University of Korea, Korea (Jun. 2022)
- Academic Excellence Scholarship, Tech University of Korea, Korea (Dec. 2021)
- Full-tuition Scholarship, Tech University of Korea, Korea (Jun. 2021)

SKILLS AND TECHNIQUES

- Programming skills: C, C++, Python