

🛇 Seoul, South Korea 🖂 jinyeonkim@snu.ac.kr 📞 +82 10-6506-3425 🔗 jinyeonkim.github.io 🛛 🤤 jinyeonkim

Summary _

Research Interest _____

Embodied AI, Robotics, Autonomous Agents, Multimodality

Education _____

MS	Yonsei University Department of Artificial Intelligence (Advisor : Jonghyun Choi ☑) CGPA (Major): 4.17 (4.19)/4.3	Sep. 2022 – Feb. 2025	
BS	Kwangwoon University Division of Robotics (Information Control), School of Robotics (Advisor : Juhoon Back ☑) CGPA (Major): 4.01 (4.08)/4.5	Mar. 2014 – Feb. 2019	
Research Experience			
	 omation and Systems Research Institute (ASRI), SNU ^[2], Researcher Researched action replanning for embodied agents using LLMs to prevent task failure. Designed memory systems to track object changes, allowing the agent to recall actions and predict next steps. 	Mar. 2025 – Present Seoul, South Korea	
•	 ea Electronic Technology Institute (KETI) ☑, Researcher Designed an image detection network to accommodate lighting changes and object poses. Implemented and operated quantized networks on board in embedded systems using C. Optimizing inference using TensorRT on Jetson boards. 	Sep. 2020 – Dec. 2021 Seongnam, South Korea	
	 robo Z, Firmware Developer Intern and Freelancer Developed educational firmware coding content. Instructed elementary school teachers on firmware coding and the principles of hardware mechanisms. 	Jul. 2017 – Sep. 2017 Seoul, South Korea	
Publications			
Pre-emptive Action Revision by Environmental Feedback for Embodied Instruction Following Agents 2 2024 Jinyeon Kim*, Cheolhong Min*, Byeonghwi Kim, Jonghyun Choi Conference on Robot Learning (CoRL) (* Equal Contribution)			
	ALFRED: An Embodied Instruction Following Benchmark in Photo-Realistic Environmen	ts 🗹 2024	

Taewoong Kim*, Cheolhong Min*, Byeonghwi Kim, *Jinyeon Kim*, Wonje Jeung, Jonghyun Choi

European Conference on Computer Vision (ECCV) (* Equal Contribution)

Context-Aware Planning and Environment-Aware Memory for Instruction Following Embodied Agents 22023Byeonghwi Kim, Jinyeon Kim, Cheolhong Min, Yuyeong Kim, Jonghyun ChoiInternational Conference on Computer Vision (ICCV)

Awards	
Gold Prize: Outstanding Paper Awards (IPIU 2025, South Korea)	Feb. 2025
Byeonghwi Kim, Taewoong Kim, Jimin Nam, Jaehong Min, <i>Jinyeon Kim</i> , Jaehong Kim, Jaehong Kim, Hyoeun Kim, hyejeong jeon, Jonghyun Choi	
 A zero-shot affordance prediction method using generative models. 	
1st Place in Generalist Language Grounding Agents Challenge (CVPRW) 亿	Jul. 2023
<i>Jinyeon Kim</i> , Byeonghwi Kim, Cheolhong Min, Yuyeong Kim, Taewoong Kim, Jonghyun Choi	
• ECLAIR: Event-Cognizant Language Interaction Embodied Robots 🗹	
 A memory system to track object changes, helping the agent recall past actions and predict next steps. 	
3rd Place in the 19th Korea Intelligent Robot Contest (KIRC) 🗹	Oct. 2018
<i>Jinyeon Kim</i> , Hwanseok Kwon, Jaeseok Yoo, Hoiman Kim	
 VICTER : Very Intelligent Coding TeachER 	
 An educational robot that teaches coding principles by controlling a cart's movements through blocks or a mobile application. 	
Patents	

METHOD FOR PERFORMING TASKS ACCORDING TO CAPEAM MODEL INCLUDING CONTEXT-AWARE PLAN- 2024 NING MODULE AND ENVIRONMENT-AWARE MEMORY MODULE AND AI AGENT USING THE SAME 2024

Jonghyun Choi, Byeonghwi Kim, *Jinyeon Kim*, Cheolhong Min, Yuyeong Kim KR 10-2675973

Skills _____

Programming: Python (+6 yrs), C/C++(+6 yrs), Matlab(+4 yrs)
Hardware: Nvidia Jetson board, AVR studio
Language: English (IELTS 6.5, OPIc IH), Korean (Native)
ECT: Knitting, iPad drawing