Taewoong Kim

\boxtimes twoongg.kim@snu.ac.kr ${\bf \ \ }$ (+82) 10-8504-5791 $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	O twoongg in taewoongkim
Research Interests	
Embodied AI, Multimodal learning, Few-shot/zero-shot learning, Reinforcement	t learning
ℰ Education	
Yonsei University M.S. in Artificial Intelligence (Advisor: Prof. Jonghyun Choi)	Mar. 2023 – Aug. 2024
 Overall GPA: 4.04/4.3 Relevant Coursework : Multimodal Deep Learning, Machine Learning and 	Programming
Yonsei University B.S. in Mechanical Engineering	Mar. 2016 – Aug. 2023
 Major GPA: 4.16/4.3, Overall GPA: 3.83/4.3 Relevant Coursework : Dynamics, Mechatronics, Mechanical System Contr 	ol, Intelligent Control
E Research Papers	
A paper about zero-shot affordance grounding using GenAI B. Kim, T. Kim, J. Nam, J. Min, J. Kim, J. Kim, H. Kim, H. Jeon, J. Choi	Under Review
Multi-Modal Grounded Planning and Efficient Replanning For Learning Embodied Agents with A Few Examples <i>T. Kim</i> , <i>B. Kim</i> , <i>J. Choi</i>	AAAI 2025 (to appear)
ReALFRED: An Embodied Instruction Following Benchmark in Photo-Realistic Environments <i>T. Kim*</i> , <i>C. Min*</i> , <i>B. Kim</i> , <i>J. Kim</i> , <i>W. Jeong</i> , <i>J. Choi</i>	ECCV 2024
ECLAIR: Event-Cognizant Language Interaction Embodied Robots J. Kim, B. Kim, C. Min, Y. Kim, T. Kim, J. Choi	Workshop on LA4IRA IEEE RO-MAN 2023
Research Experience	
SNU Machine Perception and Reasoning Lab Research Assistant (Advisor: Prof. Jonghyun Choi)	Seoul National University Sep. 2024 – Current
 Zero-shot affordance grounding Implemented image generation models to achieve zero-shot affordance groups Developed a framework that treats occlusions as interaction signals to ide 	ounding entify affordance regions
Yonsei Vision & Learning Lab Graduate Research Assistant (Advisor: Prof. Jonghyun Choi)	Yonsei University Mar. 2023 – Aug. 2024
 Large language models (LLMs) as few-shot planners for embodies Developed a multimodal planner with LLM for enhanced grounded planner Designed an efficient replanning system that corrects partially misleading 	d agents ing capabilities subgoals
 Bridging the reality gap Proposed a photo-realistic benchmark with 3D-captured indoor scenes wi 	th interactive objects
Work Experience	
Samsung Electronics Full-Time Engineer, Robot Business Team	Suwon, Korea Sep. 2022 - Jan. 2023
$\circ~$ Designed and developed mechanical components for exoskeleton robot	
Samsung Electronics Intern, Mobile Experience Divison	Suwon, Korea July. 2021 - Aug. 2021

 $\circ~$ Conducted personal project about foldable mobile devices

Q Honors and Awards

Outstanding Paper Award (Silver Prize), IPIU 2024	Feb. 2024
1st Place Award, CVPRW 2023 Embodied AI Workshop Challenge	June 2023
Academic High Honors Award, Yonsei University	Fall 2019, Fall 2020
Academic Honors Award, Yonsei University	Spring 2019
Academic Scholarship, Gwacheon City	Spring 2020 - Fall 2020
Volunteer Scholarship, Yonsei University	Spring 2019 - Fall 2019
Veritas (Academic) Scholarship, Yonsei University	Fall 2019,
	Spring 2019, 2020, 2021, 2022

Leadership Experience

 School of Mechanical Engineering at Yonsei University 56th Student President Organized, led, and made decisions for the department and student council 	Dec. 2018 - Dec. 2019
Military Service for Republic of Korea Sergeant	Apr. 2017 - Jan. 2019
 Served as machine gun shooter at The 17th Infantry Division, Republic of Kore Teaching Experience 	ea Army
Teaching Assistant, Seoul National University TA for graduate AI seminar • Managed and addressed students' requests	Fall 2024
Volunteer Experience Korean University Mentors Union	Sept. 2020 - Feb. 2021
Mentor • Conducted major-specific information sessions and addressed high school students	nts' questions
Academic Services	
Reviewer: RO-MAN'24	
✿ Skills	

Languages Korean (Native), English (Fluent) Python, C, MATLAB Programming CAD/CAE NX, Ansys, PTC Creo General GitHub, LaTeX, PyTorch