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RESEARCH INTEREST

AI Agents

AI Agents, AI Safety, Embodied Agents

EDUCATION

Yonsei University | Advisor: Prof. Jinyoung Yeo

Sep. 2025 – Present

M.S. in Artificial Intelligence

Republic of Korea Air Force

Apr. 2020 – Jan. 2022

Information System Management Specialist

Chung-Ang University

Mar. 2019 – Feb. 2025

B.S. in Software Engineering, Magna Cum Laude

GPA: 4.06/4.50 | Major GPA: 4.18/4.50

PUBLICATIONS & PREPRINTS

(* Equal contribution)

PREPRINT

[P1] Towards Direct Evaluation of Harness Optimizers via Priority Ranking[paper]

Kai Tzu-iunn Ong*, Minseok Kang*, Dongwook Choi*, Junhee Cho, Seungju Kim, Seungwon Lim, Geunha Jang, Minwoo Oh, Bogyung Jeong, Sunghwan Kim, Taeyoon Kwon, Jinyoung Yeo
Under Review at NeurIPS 2026

[P2] Evaluating Scene-Description Alignment in Text-Guided 3D Scene Synthesis via Fine-Grained Constraint Verification

Minseok Kang*, Dongwook Choi*, Gyeom Hwangbo*, Seungwon Lim, Kai Tzu-iunn Ong, Jinyoung Yeo
Under Review at EMNLP 2026

REFEREED CONFERENCE PAPER

[C5] EMBGuard: Constructing Hazard-Aware Guardrails for Safe Planning in Embodied Agents [paper]

Dongwook Choi*, Taeyoon Kwon*, Bogyung Jeong, Minju Kim, Yeonjun Hwang, Hyojun Kim, Byungchul Kim, Young Kyun Jang, Jinyoung Yeo
ICML 2026

[C4] PAC Bench: Evaluating Multi-Agent Collaboration under Privacy Constraints [paper]

Minjun Park*, Donghyun Kim*, Hyunjong Ju*, Seungwon Lim, Dongwook Choi, Taeyoon Kwon, Minju Kim, Jinyoung Yeo
ACL 2026 (Findings)

[C3] Embodied Agents Meet Personalization: Investigating Challenges and Solutions Through the Lens of Memory Utilization [paper][webpage]

Taeyoon Kwon*, Dongwook Choi*, Hyojun Kim, Sunghwan Kim, Seungjun Moon, Beong-woo Kwak, Kuan-Hao Huang, Jinyoung Yeo
ICLR 2026

[C2] Web-Shepherd: Advancing PRMs for Reinforcing Web Agents [paper]

Hyungjoo Chae*, Sunghwan Kim*, Junhee Cho*, ..., Dongwook Choi, ..., Jinyoung Yeo
NeurIPS 2025 (Spotlight)

[C1] Designing Memory-Augmented AR Agents for Spatiotemporal Reasoning in Personalized Task Assistance [paper]
Dongwook Choi, Taeyoon Kwon, Dongil Yang, Hyojun Kim, Jinyoung Yeo
XRMemory Workshop, IEEE ISMAR 2025

ACADEMIC SERVICES

Reviewer
ACL Rolling Review (ARR) Jul. 2025
ICML Gold Reviewer (Top 25%) Feb. 2026

Teaching Assistant (Academic)
Introduction to Artificial Intelligence (CAS2250) | Yonsei University, Seoul, South Korea Fall 2025
Natural Language Processing (CAS3301) | Yonsei University, Seoul, South Korea Spring 2025

Teaching Assistant (Industrial)
Introduction to Natural Language Processing | SKT Academy, Seoul, South Korea Jul. 2025
AI Expert Class | Samsung, Seoul, South Korea Jun. 2025

AWARDS & HONORS

Spotlight | NeurIPS 2025 2025

Magna Cum Laude | Chung-Ang University 2025

Da Vinci Scholarship S | Chung-Ang University 2019-1, 2019-2, 2022-1, 2022-2, 2023-1, 2023-2, 2024-1, 2024-2

RESEARCH & WORK EXPERIENCE

Language & AGI Lab | Yonsei University, Seoul, South Korea Dec. 2024 – Aug. 2025
Undergraduate Research Intern

- Advisor: Prof. Jinyoung Yeo
- Co-led research on memory-augmented embodied agents for personalized assistance, resulting in a paper accepted at ICLR 2026 [C3]
- Led research on agent systems in the augmented reality domain, resulting in a paper accepted at the XRMemory Workshop, IEEE ISMAR 2025 [C1]

Bside Korea | Seoul, South Korea Sep. 2023 – Feb. 2024
Research Intern

- Led project developing a continuous data pipeline integrating DART disclosures, Telegram messages, and emails to power a chatbot

Seoul Institute (formerly Seoul Institute of Technology) | Seoul, South Korea Jul. 2023 – Aug. 2023
Investigator

- Led off-site energy prediction project

Data Science Lab | Chung-Ang University, Seoul, South Korea Dec. 2022 – Dec. 2023
Undergraduate Research Intern

- Advisor: Prof. Yoonsik Cho
- Contributed to multimodal-based man-hour automatic calculation project with Hyundai Glovis