

SUNGJAE AHN

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RESEARCH INTEREST

I believe that achieving Artificial General Intelligence (AGI) requires learning paradigms that enable agents to adapt and improve through autonomous experience, much like **Reinforcement Learning**. In this context, my primary research interest lies in developing frameworks where agents can autonomously define and tune their own **Intrinsic rewards** to solve tasks with sparse rewards without relying on human prior knowledge.

EDUCATION

Kyung Hee University (KHU)

B.S. in Computer Science and Engineering
GPA : 4.029/4.3 (4.28/4.5)

Expected Graduation: Feb. 2027

RESEARCH EXPERIENCE

AI & Robotics Lab (AIR Lab), KHU

Undergraduate Research Intern (Advisor: Prof. Hyoseok Hwang)
Research Topic : Control policy fluctuation in Deep RL

Dec. 2025 – Present

PUBLICATIONS

(*In Preparation*) "Confidence-Aware Temporal Smoothing in Off-Policy Reinforcement Learning"
SungJae Ahn and HyoSeok Hwang[†]

ACTIVITIES

CSE 304 Algorithms

SW-mentor at KHU

Spring, Fall 2025

KHUDA (KHU Data analysis and AI club) 7th

NLP Track, Developed RAG-based Chatbot

Jan. 2025 - Jul. 2025

Signal Intelligence

Mandatory Military Service

Feb. 2022 - Nov. 2023

SKILLS

AI/ML : PyTorch, Gymnasium

English : TOEIC 970

AWARDS

Academic Excellence Scholarship, KHU

Fall 2025

Academic Excellence Scholarship, KHU

Spring 2025

Academic Excellence Scholarship, KHU

Fall 2024

Academic Excellence Scholarship, KHU

Spring 2024

PROJECTS

Deepfake Detection Competition

Fall 2025

- **Ranked 33 out of 266 teams** utilizing [Dual Data Alignment](#) for robust cross-domain forgery detection.
- Leveraged Hydra and WandB to manage experimental configurations and ensure research reproducibility.