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**. I am also interested in **Representation Learning** to empower agents with the adaptive agility required to learn as swiftly and effectively as humans. Furthermore, I hope to explore **New Foundation Models** as the fundamental architectural tools to overcome current constraints and provide the reasoning required for such autonomous learning.

EDUCATION

Kyung Hee University (KHU)   Expected Graduation: Feb. 2027
B.S. in Computer Science and Engineering
GPA : 4.029/4.3 (4.28/4.5)

RESEARCH EXPERIENCE

AI & Robotics Lab (AIR Lab), KHU   Dec. 2025 – Present
Undergraduate Research Intern (Advisor: Prof. Hyoseok Hwang)
Research Topic : Control policy fluctuation in Deep RL

PUBLICATIONS

(*In Preparation*) "Mitigating Policy Oscillation Coupled with Extrapolation Error in Off-Policy RL"
SungJae Ahn and HyoSeok Hwang[†]

ACTIVITIES

CSE 304 Algorithms   Spring, Fall 2025
SW-mentor at KHU
KHUDA (KHU Data analysis and AI club) 7th   Jan. 2025 - Jul. 2025
NLP Track, Developed RAG-based Chatbot
Signal Intelligence   Feb. 2022 - Nov. 2023
Mandatory Military Service

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.