Heewoong Choi

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Research Interest

I aim to develop *scalable reinforcement learning (RL)* algorithms that (1) improve performance as more data becomes available, (2) maintain robust performance in long-horizon episodes, and (3) generalize well across diverse tasks. To achieve this, I believe it is essential to leverage the previously collected data and advance multi-task learning. With this perspective, I have been deeply engaged in data-driven RL, particularly offline RL. Additionally, I am interested in learning approaches such as preference-based RL, goal-conditioned RL, and imitation learning.

Education

MS/PhD	**Seoul National University**, Electrical and Computer Engineering	2023.03 – Present
	• GPA: 4.11/4.3	
	• M.IN.D Lab (Advisor: Taesup Moon)	
BS	**Seoul National University**, Electrical and Computer Engineering	2017.03 – 2023.02
	• GPA: 4.13/4.3 (cumulative), 4.18/4.3 (major)	
	• Leave of absence for military service (Mar 2019 - Feb 2021)	

Publications

(*: equal contribution)

[C3] Option-aware Temporally Abstracted Value for Offline Goal-Conditioned Reinforcement Learning paper | code | project page   NeurIPS 2025 (Spotlight)

Hongjoon Ahn*, ***Heewoong Choi***, Jisu Han*, Taesup Moon

[C2] Listwise Reward Estimation for Offline Preference-based Reinforcement Learning paper | code | project page   ICML 2024

Heewoong Choi, Sangwoon Jung, Hongjoon Ahn, Taesup Moon

[C1] NCIS: Neural Contextual Iterative Smoothing for Purifying Adversarial Perturbations paper   WACV 2024

Sungmin Cha, Naeun Ko, ***Heewoong Choi***, Youngjoon Yoo, Taesup Moon

Work Experience

NAVER CLOVA, AI engineer intern at CLOVA Image-Vision team   2022.06 - 2022.11

  • Developed a head pose estimation model for real-time applications.

Honors

Presidential Science Scholarship   2017.03 - 2023.02

  • Full enrollment fee from Korea Student Aid Foundation (KOSAF)

Teaching

  • **TA** Programming Methodology (SNU)   S'23, S'24, F'25

Programming Skills

  • C++, Python, Pytorch, Jax