

Hyungkyu Kang

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RESEARCH INTEREST

Artificial Intelligence, Reinforcement Learning, Robotics


EDUCATION

- **Seoul National University** *Mar 2019 - Aug 2025* [*Expected, military service included (2021-2022)]*
B.S. in Mechanical Engineering and Computer Science
◦ Overall GPA: 4.24/4.3 | Major GPA: 4.27/4.3
Seoul, Republic of Korea
- **Sejong Science High School** *Mar 2017 - Feb 2019*
High school for talented students in Science and Mathematics
◦ One-year early graduation
Seoul, Republic of Korea

PUBLICATIONS

- [1] **Hyungkyu Kang** and Min-hwan Oh. Adversarial Policy Optimization for Preference-based Reinforcement Learning. In The Thirteenth International Conference on Learning Representations, 2025.

EXPERIENCE

- **Decision Making Lab**  *Mar 2023 - Present*
Research Intern
◦ Developed a neural dynamic pricing algorithm with regret bound
◦ Studied provably efficient policy optimization methods with linear and general function approximation
◦ Developed a preference-based reinforcement learning algorithm with a provable guarantee and efficient neural network implementation
Seoul, Republic of Korea
- **Republic of Korea Air Force (military service)** *Feb 2021 - Nov 2022*
Administrative Specialist
◦ Administrative work based on the military personnel management system
Seoul, Republic of Korea

TEACHING

- **Computing Essence: Data-centric Artificial Intelligence** *Mar 2025 - Present*
Tutor
Seoul, Republic of Korea
- **Principles and Applications of Data Science** *Mar 2024 - Jun 2024*
Teaching Assistant
Seoul, Republic of Korea

SKILLS

- **Programming:** Python (Pytorch, JAX/FLAX), C/C++
- **Mathematics:** Basic Engineering Math, Analysis, Probability Theory, Statistical Learning Theory
- **Languages:** Korean, English

HONORS AND AWARDS

- **Yoonsong Choi Changseok Scholarship** *Mar 2020 - Sep 2024*
Yoonsong Choi Changseok Foundation
- **Department of Mechanical Engineering Scholarship for Academic Excellence** *Sep 2019*
Seoul National University Department of Mechanical Engineering
- **Hanseong Nobel Prodigy Scholarship** *Mar 2018*
Hanseong Sonjaehan Scholarship Foundation