

Hojun Yi

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Research Interest

Research Interests

- Autonomous Exploration & Continual Learning: Unsupervised RL, Self-Supervised RL, Open-Endedness, Unsupervised Environment Design (UED)
- Robust Reinforcement Learning: Out-Of-Distribution (OOD) Generalization, Multi-Objective RL
- Optimization & Policy Modeling: Quality-Diversity (QD) Optimization, Optimal Transport (OT) Theory, Generative Policy Modeling via Flow Matching
- Geometric Foundations of AI: Information Geometry, Statistical Manifolds, Topological Latent Representations, Mathematical Causality & Interpretability

Education

- BS** **Gwangju Institute of Science and Technology (GIST)**, BS – Gwangju, Korea Feb 2023 – present
- Total: 4.20/4.5, Electrical Engineering and Computer Science(Major): 4.34
 - Mathematical Sciences(Double Major): 4.29
 - Expected Cum Laude graduation in Aug 2027

Publications

TRACED: Transition-aware Regret Approximation with Co-learnability for Environment Design

G. Cho, J. Im, J. Lee, **H. Yi**, S. Kim, S. Kim

arxiv.org/pdf/2506.19997 (ICLR 2026, CoRL workshop 2025)

Receding-Horizon Execution for Action Chunking in Offline-to-Online Reinforcement Learning

J. Lee, G. Cho, **H. Yi**, J. Im, G. Park, S. Kim

openreview.net/pdf?id=vyWu5mz4x0 (ICML workshop 2026)

Experience

- DataScience Lab**, Undergraduated Research Intern – Gwangju, Korea Mar 2025 – present
- Advised by Prof. Sundong Kim
- Conducting Research on Open-Endedness, Unsupervised RL
 - Studied Math for ML, Probabilistic ML
 - lightning talk about TRACED on CoRL workshop 2025

Awards and honors

- Dean's List (GIST EECS)** Spring 2025
- 2024 ICPC Seoul Regional - 63rd** Nov 2024
- 2024 GIST Algorithm Masters - 1st** May 2024
- Hello, BOJ 2024! - 45th** Jan 2024
- 2023 ICPC Seoul Regional - 49th** Nov 2023
- Academic Excellence Scholarship (GIST)** 2023 – 2025
- Government Sponsored Scholarship (GIST)** 2023 – present

Selected coursework

Mathematics: Multivariable Calculus, Linear Algebra, Differential Equations, Real Analysis(2026S), Automata Theory, Discrete Mathematics, Random Process, Deep Learning Theory(2026S)

Computer Science: Computer Architecture, System Programming, Signals and Systems, Programming Languages and Compilers, Software Engineering, Machine Learning and Deep Learning