# HOKYUN IM

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## EDUCATION

**Yonsei University** Mar 2025 -
MS/PhD in Artificial Intelligence (Advisor: Prof. Youngwoon Lee) *Seoul, South Korea*

**Yonsei University** 2019 - 2024
B.S. in Electrical & Electronic Engineering *Seoul, South Korea*
GPA: 3.95 / 4.30 (Cumulative), 3.97 / 4.30 (Major)

## RESEARCH INTERESTS

My current research interest is in developing generalizable robot policies by (1) utilizing internet-scale knowledge, (2) learning a broad range of behaviors and skill representations, and (3) improving them using reinforcement learning (RL). Specifically, my interests include:

- Vision-Language-Action models
- Behavioral cloning (BC) using generative models
- Unsupervised skill extraction
- Offline & Online fine-tuning of BC policies

## PUBLICATIONS

**[P1]** Latent Policy Steering via Action-Space Q-Gradients through One-Step Flow Policies
**Hokyun Im**, Andrey Kolobov, Jianlong Fu, Youngwoon Lee
Submitted to Robotics: Science and Systems (RSS), 2026

**[P2]** TwinVLA: Data-Efficient Bimanual Manipulation with Twin Single-Arm Vision-Language-Action Models
**Hokyun Im**, Euijin Jeong, Andrey Kolobov, Jianlong Fu, Youngwoon Lee
International Conference on Learning Representations (ICLR), 2026

## EXPERIENCE

**Research Intern**
Microsoft Research Asia (Advisor: Jianlong Fu, Andrey Kolobov) Jul 2025 - Dec 2025

- Researched and developed a generalist policy for bimanual manipulation by integrating two generalist single-arm policies and enabling communication between them through *joint self-attention.*
- Investigated Autoregressive Q-Learning to effectively model complex action distributions in high-dimensional Offline RL settings.
- Researched effective Offline RL methodologies by leveraging MeanFlow for precise latent actor steering.

**Research Intern**
Yonsei University (Advisor: Prof. Youngwoon Lee) Jul 2024 - Feb 2025

- Developed a modular/scalable pipeline for VLA model construction, facilitating the efficient training and benchmarking of diverse VLM backbones and action heads.
- Developed a dexterous bimanual robot simulation to test both specialist and generalist bimanual policies.

**Research Intern**
Yonsei University (Advisor: Prof. Jongeun Choi) Apr 2024 - Jun 2024

- Researched and developed a Behavior Transformer that autoregressively generates coarse-to-fine tokens for action generation, inspired by VAR.

- Set up robot manipulation environments from scratch and applied them to 3D Diffusion Policy and SE(3)-Equivariant model experiments.

**Research Intern**
KAIST (Advisor: Prof. Joseph J.Lim) Jan 2024 - Mar 2024

- Researched and analyzed reasoning gaps in the robotics decision-making process and proposed benchmarks for subgoal prediction in goal-conditioned behavioral cloning.

## AWARDS

- **1st Place**, 2024 AI Drone Challenge Apr 2024 - May 2024
  Awarded by Governor of Jeju Province.
  Task: Indoor drone navigation by avoiding obstacles, capturing photos of designated objects, and reaching the destination.
- **2nd Place**, 2023 Korea Robot-Aircraft Competition Nov 2022 - Sep 2023
  Awarded by Korean Ministry of Trade, Industry and Energy
  Task: Fully autonomous outdoor drone navigation using GPS to travel long distances, avoid obstacles, reach the destination to deliver items, and return safely.