

Jonghyun Park

M.S. Candidate, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
jhpark99@kaist.ac.kr – whdgus1054@gmail.com – <https://jh-park99.github.io>

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

M.S. in Artificial Intelligence

Republic of Korea
02.2025 – 02.2027 (expected)

- Advised by Prof. Jong Chul Ye at BISPL.

Seoul National University (SNU)

B.S. in Naval Architecture and Ocean Engineering & Artificial Intelligence (Double Major)

Republic of Korea
03.2018 – 02.2025

- Cumulative GPA: 3.94/4.30 (Rank 1/38)
- National Scholarship For Science and Engineering for 4 semesters.
- Merit Scholarship (Full tuition for 1 semester, half tuition for 2 semesters), Dean's list.
- Period includes 18 months military service from 07.2020 – 01.2022

Daejeon Science High School

03.2015 – 02.2018

WORK EXPERIENCE

Vector Institute

Research Intern, Applied math

Advisor: Prof. Yaoliang Yu and Prof. Ricardo Baptista

Toronto, Canada
07.2026 – 11.2026

ActionSquare

Research intern

Advisor: Prof. Jinwoo Shin (KAIST)

Seoul, Republic of Korea
06.2024 – 08.2024

- Investigated noise initialization strategies for image-to-video generation.

SNU Robot Learning Lab

Research intern

Advisor: Prof. Songhwai Oh

Republic of Korea
02.2023 – 08.2023

- Conducted research on reinforcement-learning-based robotic grasping [C1].

RESEARCH INTERESTS

My research focuses on improving the controllability for image and video synthesis, including both generation and editing. I believe that mathematical theories help us understand why these models work and provide better intuition for developing future methods and applications.

PUBLICATIONS

C: conference, J: journal, W: workshop, P: preprint, *: equal contribution, †: Co-corresponding authors

[W2] **Accelerating Video Inverse Problem Solvers with Autoregressive Diffusion Models**

Taesung Kwon*, Jonghyun Park*, HyungJin Chung†, Jong Chul Ye†

ICML 2026 Workshop on F2S.

[W1] **FlowLPS: Langevin-Proximal Sampling for Flow-based Inverse Problem Solvers**

Jonghyun Park, Jong Chul Ye

ICML 2026 Workshop on RLxF.

[C3] **Tiled Prompts: Overcoming Prompt Underspecification in Image and Video Super-Resolution**

Bryan Sangwoo Kim*, Jonghyun Park*, Jong Chul Ye

ECCV 2026.

[C2] **FlowAlign: Trajectory-Regularized, Inversion-Free Flow-based Image Editing**

Jeongsol Kim*, Yeobin Hong*, Jonghyun Park, Jong Chul Ye

ICLR 2026.

[C1] **Effective Exploration via Tsallis Actor-Critic on 6D Robot Grasping**

Jaeyeon Jeong, Jonghyun Park, Songhwai Oh

ICCV 2024.

SPECIALIZED SKILLS

Programming Languages: Python, C
Deep Learning Frameworks: PyTorch

AWARDS

National Scholarship For Science and Engineering, Korea Student Aid Foundation 4 semesters
• Full tuition for 4 semesters
University Students Contest of Mathematics, Silver Prize, Korean Mathematical Society (KMS) 11.2019
Merit Scholarship, SNU
• Full tuition for 1 semester (Fall 2018)
• 50% tuition for 2 semesters (Spring, Fall 2019), 10% for 1 semester (Spring 2018)

References

Professor Jong Chul Ye
Graduate School of AI, KAIST
jong.ye@kaist.ac.kr