# Jonghyun Park

M.S. Candidate, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
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## EDUCATION

**Korea Advanced Institute of Science and Technology (KAIST)**  Republic of Korea
*M.S. in Artificial Intelligence*  02.2025 – 02.2027 (expected)
- Advised by Prof. Jong Chul Ye at BISPL.

**Seoul National University (SNU)**  Republic of Korea
*B.S. in Naval Architecture and Ocean Engineering & Artificial Intelligence (Double Major)*  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

## 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

[P2] **FlowLPS: Langevin-Proximal Sampling for Flow-based Inverse Problem Solvers**
Jonghyun Park, Jong Chul Ye  *Preprint, Submitted to CVPR 2026.*

[P1] **FlowAlign: Trajectory-Regularized, Inversion-Free Flow-based Image Editing**
Jeongsol Kim\*, Yeobin Hong\*, Jonghyun Park, Jong Chul Ye  *Preprint, Submitted to ICLR 2026.*

[C1] **Effective Exploration via Tsallis Actor-Critic on 6D Robot Grasping**
Jaeyeon Jeong, Jonghyun Park, Songhwai Oh  *ICCAS 2024.*

## ACADEMIC EXPERIENCE

**ActionSquare**  Seoul, Republic of Korea
*Research intern*  06.2024 – 08.2024
Advisor: Prof. Jinwoo Shin (KAIST)

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

**SNU Robot Learning Lab**  Republic of Korea
*Research intern*  02.2023 – 08.2023
Advisor: Prof. Songhwai Oh

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

## Academic Services

**CVPR reviewer**  2025
- Served as a reviewer at the Conference on Computer Vision and Pattern Recognition (CVPR) 2026.

## 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)