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, *: equal contribution

[P2] **Tiled Prompts: Overcoming Prompt Underspecification in Image and Video Super-Resolution**
Bryan Sangwoo Kim*, Jonghyun Park*, Jong Chul Ye *Preprint, Submitted to ICML 2026.*

[P1] **FlowLPS: Langevin-Proximal Sampling for Flow-based Inverse Problem Solvers**
Jonghyun Park, Jong Chul Ye *Preprint, Submitted to ICML 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 *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)

References

Professor Jong Chul Ye
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