Subin Park

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EDUCATION

Ulsan National Institute of Science and Technology, UNIST   Ulsan, Korea
B.S Expected in Feb, 2026 in Electrical Engineering; ***GPA: 3.79/4.30***   *Mar 2020 − current*

SKILLS

Languages: Python, MATLAB, C++

Technologies: PyTorch

Interest: Score-based diffusion models, Inverse problems, Medical imaging, Flow-based models, 3D scene editing

EXPERIENCE

UNIST AIGS LAIT   Ulsan, Korea
Intern   *Jul 2024 − Present*

- Implemented a Denoising Diffusion Probabilistic Models (DDPMs) in PyTorch environment and trained the model on CIFAR-10.
- Developed Diffusion Posterior Sampling (DPS) method to reconstruct the blurry images of mouse brain cells and accepted by IPIU in 2025.
- Currently studying and researching reconstructing 3D structures, including Two-Perpendicular Diffusion Models (TPDMs) and 3D reconstruction via video diffusion model.

PUBLICATIONS

Seongwon Cho*, **Soobin Park***, Jaejun Yoo, "Diffusion Posterior Sampling Based Two-photon Microscope Image Reconstruction with Optical Aberration model" in **IPIU 2025**

AWARDS & ACHIEVEMENTS

Dean's List: Awarded to students with excellent academic performance in the college by College of Information and Biotechnology, UNIST (Oct 2024)

Academic Excellence Award: Awarded to students with excellent academic performance in the department by Department of Electrical Engineering, UNIST (Dec 2024)