Joonkyu Min

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Research Interest

My goal is to build safe and reliable AI agent that can interact with the real world.
I believe that safety is the key component for practical tasks of robots. Safety guarantees would also enable easier and scalable real world data collection and training, enabling more robust deployment!

Education

KAIST, MS in Kim Jaechul School of Artificial Intelligence — Mar 2026 –
Seoul National University, BS in Electrical and Computer Engineering — Mar 2020 – Feb 2026

Experience

Research Intern, CLVR lab — June 2025 – Current

- Working on robot learning with Prof. Joseph J. Lim

Research Intern, SNU VGI lab — June 2024 – Mar 2025

- Worked on 3D gaussian splatting for feature field with Prof. Jaesik Park

Duty of National Defense, Auxiliary Police — May 2021 – Nov 2022

Publications

CF3: Compact and Fast Feature Field

- Hyunjoon Lee, Joonkyu Min, Jaesik Park
- *Int. Conf. on Computer Vision (ICCV)*, 2025
- Proposed an approach for constructing a compact 3D feature representation from given 3D Gaussian Splatting

Projects

Can Zero-shot RL enable test time safety?

- Course Project on Robot Learning at SNU
- Explored the potential of zero-shot RL method to enable safe decision making. Extended FB representations with safety constraints, enabling test-time adaptation to both rewards and costs without retraining.

KL-regularized FB representation for offline zero-shot RL

- Undergraduate Project with Prof. Insoon Yang
- Applied KL-divergence regularization approach to zero shot RL method

Gaussian Splatting in the Dark

- Course project of 3D Computer Vision at SNU
- Learn robust gaussian splatting to render realistic novel views from dark and blurry scenes by initializing gaussians based on dense point tracking method instead of keypoint matching

SNU Autonomous Driving Student Club (ZERO)

- Worked on synthetic generating domain randomization data for autonomous vehicles with gazebo

Skills

Languages: Korean: Native, English: TOEFL 102 (test date: 03/2024)

Technologies: C/C++, Python, Pytorch, CUDA