Byeongjin Kang

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website Byeongjin Kang namul2

Who am I?

I'm a **deeply curious person** with a passion for new knowledge. I love exploring any topic that piques my interest, no matter the field. Rather than sticking to a single path, I enjoy solving problems by **blending diverse knowledge** and finding new ways forward. My ultimate dream is to create an AI that can think and act like a human, even if imperfectly. Sometimes I joke that I'm just a human trying to **reverse-engineer myself**.

Education

Yonsei University *Mar 2026 – present*
MS/PhD in Artificial Intelligence

Sungkyunkwan University *Mar 2020 – Feb 2026*
B.S in Computer Science and Engineering

- GPA: 4.14/4.5

Research Interests

My research focuses on **3D vision and robot learning**, developing AI systems that perceive and understand the real world through 3-dimensional spatial reasoning from multimodal sensor data. I aim to create frameworks where 3D perception enables intelligent robotic behavior to solve **complex real-world problems.**

Experience & Projects

Undergraduate research assistant *Oct 2025 – present*
Yonsei University V-Lab (advised by Prof. Eunbyung Park)

Undergraduate research assistant *Jan 2025 – Apr 2025*
Yonsei University RLLAB (advised by Prof. Youngwoon Lee)

- Explored autonomous learning of attention masking to enhance efficiency in processing high-dimensional robotic inputs

Undergraduate research assistant *June 2024 – Dec 2024*
SKKU CSILAB (advised by Prof. Yusung Kim)

- Enhancing Visual Robustness in Imitation Learning
  - Achieved 80% success rate on visually noisy environment (baseline ACT model is 10%)
  - Experiments applying Forward Dynamics to model pipeline
- Reinforcement Learning in Real-World environment

AI Team Project [swe3032] *Sep 2024 – Dec 2024*
Efficient Long Text Summarization Using Segmentation Pipeline

- Succeeded in summarizing long text using a small model without collapse using 0.5B parameters
- Served as team leader, overseeing the main idea and member coordination

Technologies

Programming Languages: C++, C, Java, Python (Pytorch, Numpy)

Languages: Korean, English