

# Chanhyuk Jung

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## RESEARCH INTEREST

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Imitation Learning, Reinforcement Learning, Planning with World Models

## EDUCATION

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**Keimyung University**

2021 - 2026

*Bachelor of Science in Computer Engineering*

## PUBLICATIONS

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† denotes equal contribution

- [1] **Chanhyuk Jung**, Jongbin Choi, Sungkeunn Yoo, and Byoung Chul Ko. “simDP: Sim-to-Real Transfer with Shared Action Spaces”. In: *Sensors* (2026). **Under Review**.
- [2] Dasom Ahn<sup>†</sup>, **Chanhyuk Jung**<sup>†</sup>, Joonki Baek, Sungkeun Yoo, and Byoung Chul Ko. “Shifted Flow Policy: Uncertainty-aware Time Reparameterization for Visuomotor Learning”. In: *2026 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE. 2026. **Oral Presentation (Top 4%)**.
- [3] **Chanhyuk Jung**<sup>†</sup>, Sangwon Kim<sup>†</sup>, Dasom Ahn, In-su Jang, Kwang-Ju Kim, Sungkeun Yoo, and Byoung Chul Ko. “Rolling Diffusion Policy for Robotic Action Prediction: Enhancing Efficiency and Temporal Awareness”. In: *ICRA 2025 Workshop on Foundation Models and Neuro-Symbolic AI for Robotics*. 2025.
- [4] **Chanhyuk Jung**<sup>†</sup>, Sangwon Kim<sup>†</sup>, Kwang-Ju Kim, Dasom Ahn, Joonki Baek, Sungkeun Yoo, and Byoung Chul Ko. “Flow-Guided Policies: Overcoming Diffusion Limitations for Robust Robot Imitation Learning”. In: *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV) Workshops*. Oct. 2025, pp. 2507–2512.
- [5] Seon-Bin Kim, **Chanhyuk Jung**, Byeong-Il Kim, and Byoung Chul Ko. “Lightweight Semantic-Guided Neural Networks Based on Single Head Attention for Action Recognition”. In: *Sensors 22.23* (2022).

## EXPERIENCE

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**Industry-Academic Cooperation Foundation, Keimyung University**

Mar. 2026 - Aug. 2026

*Full-time employee, Researcher*

**Keimyung University**

Oct. 2021 - Feb. 2026

*Undergraduate Research Assistant*

## PROJECTS

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**VR Teleoperation System**

Feb. 2026 - Apr. 2026

- Devised a teleoperation system for a single robot arm using a VR controller

- Designed a pipeline to remap coordinate frames on the fly for seamless teleoperation
- Engineered a robot safety net to reduce noise and oscillation induced hardware damage

### **Browser Context based QA System**

Dec. 2021 - Jan. 2022

- Developed a framework for answering questions based on text from the current browser context
- Designed an inference pipeline to support larger context sizes

### **Lane Tracking System for WeGo-ERP42**

Sep. 2021 - Feb. 2022

- Led the lane tracking system for the WeGo-ERP42 platform to detect lanes and convert them into a 2d map for steering
- Developed a ROS package for lane detection, localization, and steering

## **HONORS & AWARDS**

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**Undergraduate AI Paper Competition**, Summer Annual Conference of IEIE

2025

*First Prize (Best Paper Award)*

**DevFest 2022 Google Developer Groups Daegu Hackathon**

2022

*Runner-up (2nd Place)*

## **LANGUAGES**

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Fluent in **English** (lived in the United States), TOEIC 970/990 (expired)

Native in **Korean**