

CO-FOUNDER, AI RESEARCH ENGINEER

Seoul, Republic of Korea

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Work Experience __

ATLO Seoul, S.Korea

• Intersection of robotics and machine learning

Dec. 2024 - now

Education

Co-Founder

Korea University Seoul, S.Korea

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE Sep. 2022 - Aug. 2024

- · Supervisor: Sungjoon Choi
- Cumulative GPA: 4.14 / 4.50

Korea University

Seoul, S.Korea

Bachelor of Science in Electro-Mechanical Systems and Engineering

Mar. 2018 - Feb. 2022

- Cumulative GPA: 4.13 / 4.50, Major GPA: 4.31 / 4.50, Credit: 146
- Summa Cum Laude, Ranking: 2/88

Publications

SPOTS: Stable Placement of Objects with Reasoning in Semi-Autonomous Teleoperation Systems

JOONHYUNG LEE, SANGBEOM PARK, JEONGEUN PARK, KYUNGJAE LEE, AND SUNGJOON CHOI 2024

• Project Page | Code | Paper | Video | Talk (15 min)

Visual Preference Inference: An Image Sequence-Based Preference Reasoning in Tabletop Object Manipulation

JOONHYUNG LEE, SANGBEOM PARK, YONGIN KWON, JEMIN LEE, SUNGJOON CHOI

2024

ICRA

IROS

• Project Page | Code | Paper | Video | Talk (10 min) | Poster

Quality-Diversity based Semi-Autonomous Teleoperation using Reinforcement Learning

Neural Networks 2024

Sangbeom Park, Taerim Yoon, **Joonhyung Lee**, Sunghyun Park, and Sungjoon Choi

Project Page | Paper | Video | Poster

CLARA: classifying and disambiguating user commands for reliable interactive robotic agents

JEONGEUN PARK, SEUNGWON LIM, **JOONHYUNG LEE**, SANGBEOM PARK, MINSUK CHANG, YOUNGJAE YU, AND SUNGJOON CHOI 2024

• Project Page | Paper | Video

Robust Detection for Autonomous Elevator Boarding Using a Mobile Manipulator

ACPR

SEUNGYOUN SHIN, JOONHYUNG LEE, JUNHYUG NOH, AND SUNGJOON CHOI

2023

RA-L

• Project Page | Paper | Video

Skills

Programming Python, C++

Physics Simulation MuJoCo, Isaac Sim, ROS2, PyTorch

Realworld Robots UR5e, Franka Panda, GAEMI, DJI F450 Drone

DevOps AWS, Docker, Google Cloud Platform **Languages** Korean (Native), English (Intermediate)

Highly motivated with a strong ability to learn quickly and adapt to new challenges.

Presentation

Conference Paper & Poster Presentations

ICRA & IROS

2024

Presentation for three papers

ICRA: 1 Paper presentation (Oral), 3 Poster presentations

IROS: 1 Paper presentation



10-2024-0023216, Visual Preference Inference: An Image Sequence-Based Preference Reasoning in 2024 Tabletop Object Manipulation

Korea

Honors & Awards

2022	Scholarship for Admission Excellence (Half-Funding), Korea University	Seoul, S.Kored
2021	Silver Prize, Graduation Project Competition, Korea University	Seoul, S.Kored
2020	Gold Prize, Engineering School Student Academic Conference, Korea University	Seoul, S.Kored
2020	Silver Prize, Engineering School Student Academic Conference, Korea University	Seoul, S.Kored
2019-2022	2 Dean's List , Korea University	Seoul, S.Kored
2019-2022	2 Best Tutor Award , Statics, Electric Circuit, Control Engineering, Korea University	Seoul, S.Kored
2018-2022	2 Scholarship for Academic Excellence (Full-Funding), Korea University	Seoul, S.Kored

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea Jun. 2010 - Jun. 2017

CORE MEMBER & PRESIDENT AT 2013

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- · Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.