

# Sangbeom Park

sangbeom-park@korea.ac.kr | [Personal Hompage](#) | [Google Scholar](#)

## EDUCATION

---

### Korea University

Seoul, South Korea

*M.S. in Artificial Intelligence (Advisor: Sungjoon Choi)*

GPA: 4.42/4.5

Leave of absence for Work (Mar 2023 - Sep 2023, Mar 2024 - June 2024)

### Dongguk University

Seoul, South Korea

*B.S. in Electrical and Electronics Engineering, B.S. in Intelligent Robotics Engineering(Minor)*

EE GPA: 4.09/4.5, IR GPA: 4.44/4.5

Leave of absence for Military Service in KATUSA (Nov 2016 - Aug 2018)

## PUBLICATIONS

---

⟨ International ⟩

- [1] Sunghyun Park, Yoonbyung Chai, Seungyup Ka, Hyeonseong Kim, **Sangbeom Park**, Kevin Gim, Joohyng Kim, and Sungjoon Choi, “Learning Latent Prior for Rapid Adaptation of Legged Robots to Unexpected Amputation”, *Under Review*.
- [2] **Sangbeom Park**, Taerim Yoon, Joonhyung Lee, Sunghyun Park, and Sungjoon Choi, “Quality-Diversity based Semi-Autonomous Teleoperation using Reinforcement Learning”, *Neural Networks*.
- [3] Joonhyung Lee, **Sangbeom Park**, Yongin Kwon, Jemin Lee, Minwook Ahn, and Sungjoon Choi, “Visual Preference Inference: An Image Sequence-Based Preference Reasoning in Tabletop Object Manipulation”, *2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*.
- [4] Joonhyung Lee, **Sangbeom Park**, Jeongeun Park, Kyungjae Lee, and Sungjoon Choi, “SPOTS: Stable Placement of Objects with Reasoning in Semi-Autonomous Teleoperation Systems”, *2024 IEEE International Conference on Robotics and Automation (ICRA)*.
- [5] Jeongeun Park, Seungwon Lim, Joonhyung Lee, **Sangbeom Park**, Minsuk Chang, Yougjae Yu, and Sungjoon Choi, “CLARA: Classifying and Disambiguating User Commands for Reliable Interactive Robotic Agents”, *2023 IEEE Robotics and Automation Letters (RA-L)*.
- [6] **Sangbeom Park**, Yoonbyung Chai, Sunghyun Park, Jeongeun Park, Kyungjae Lee, and Sungjoon Choi, “Semi-Autonomous Teleoperation via Learning Non-Prehensile Manipulation Skills”, *2022 IEEE International Conference on Robotics and Automation (ICRA)*.

## WORK EXPERIENCE

---

### ATLO

*Working on an AI Social Robot Service*

Seoul, South Korea

*June. 2024 – Present*

### NAVER Cloud

*Implemented NewsBot, a news curation service powered by HyperCLOVA X*

Gyeonggi-do, South Korea

*Mar. 2024 – June. 2024*

### NAVER LABS

*Explored unsupervised skill learning for safe locomotion behaviors (Mentor: Taeyoon Lee)*

Gyeonggi-do, South Korea

*Mar. 2023 – Sep. 2023*

### Research Intern, RILAB, KOREA University

*Explored reinforcement learning for robotic manipulation skills (Advisor: Sungjoon Choi)*

Seoul, South Korea

*Jan. 2021 – Aug. 2021*

## AWARDS & HONORS

---

**Autonomous Driving Competition, 2nd**, Dongguk University, 2021.

**Honor student for 2021**, Dongguk University, 2021.

**Honor student for 2020**, Dongguk University, 2020.

**Poster Idea Award**, KICS, 2020.

**Capston Design Value Up, 3rd**, Dongguk University, 2019.

**Project of the Industrial Revolution, 1st**, TAVE, 2019.

## PROJECTS

---

**Automation Maintenance using Mobile Manipulator** Mar. 2021 – Sep. 2023

- Developed navigation and manipulation skills of mobile manipulator for factory automation system.
- Supported from Samsung Electronics

**Deep Reinforcement Learning for Autonomous Driving** Jan. 2021 – April. 2021

- Proposed sampled-efficient reinforcement learning methods for autonomous driving implemented in Unity.
- Open Lab, AI LAB KOREA Association, Inc

**Self-driving Framework** Dec. 2020 – Feb. 2021

- Developed a self-driving framework using computer vision and reinforcement learning on Xytron.
- 2nd prize, Dongguk University

**User-centered Home IoT** June. 2019 – Sep. 2019

- Developed Home IoT System for Individual User, It uses the face recognition system as a trigger to activate the IoT, which considers user preferences and controls the system utilizing an app equipped with a menu.
- 3rd prize, Dongguk University

**Sharella (Sharing Economy+Umbrella)** Mar. 2019 – May. 2019

- Designed and implemented a prototype of Autonomous System “Sharella (Sharing Economy+Umbrella)” based on Firebase to integrate with customized app and Raspberry Pi which controls the hardware. Literally, it serves as a platform to share umbrellas from anywhere to anyone
- 1st prize, TAVE

## PATENTS

---

**Semi-Autonomous Teleoperation via Learning Manipulation** 2023

- Republic of Korea. 10-2023-0125345

## INVITED TALK

---

**Learning X in Physics-based Simulators** Mar 8. 2024

- Cinamon, AI Research

**Shared-Autonomy for Robotics** Feb 14. 2023

- NABER LABS, Robot Dynamics&Control

## EX-CURRICULAR ACITIVITIES

---

**Deep Learning Seminar** Sep. 2021 – Mar. 2022

- AI-group deep learning seminar
- Attending Korea, Seoul National, Han-Yang, Chung-Ang University PAIR (RILAB, RLLab, Robots with Humans Lab, RAILab) seminar

**MST (Microcontroller Study Team Club)** Dec. 2018 – Dec. 2019

- In charge of the seminars for C programming language tutorial for club members
- In charge of the seminars for Arduino and Raspberry Pi tutorial for club members

## LANGUAGES

---

**Korean** (Native), **English** (Fluent)