

# Sangbeom Park

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## EDUCATION

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### Korea University

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

GPA: 4.42/4.5

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

Seoul, South Korea

*Sep. 2021 – Present*

### Dongguk University

*B.S. in Electrical and Electronics Engineering, B.S. in Intelligent Robotics Engineering(Minor)* Mar. 2015 – Aug 2021

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

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

Seoul, South Korea

## PUBLICATIONS

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⟨ International ⟩

- [1] **Sangbeom Park**, Taerim Yoon, Joonhyung Lee, Sunghyun Park, and Sungjoon Choi, “Quality-Diversity based Semi-Autonomous Teleoperation using Reinforcement Learning”, *Under Review*.
- [2] 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”, *Under Review*.
- [3] Sunghyun Park, Yoonbyung Chai, Seungyup Ka, Hyeonseong Kim, **Sangbeom Park**, Kevin Gim, Joohyng Kim, and Sungjoon Choi, “Learning Rapid Adaptation of a Legged Robot under Amputation”, *Under Review*.
- [4] Joonhyung Lee, **Sangbeom Park**, Jeongeun Park, Kyungjae Lee, and Sungjoon Choi, “CLARA: Classifying and Disambiguating User Commands for Reliable Interactive Robotic Agents”, *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”, *IEEE Robotics and Automation Letters* 2023.
- [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

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### Research Intern, NAVER Cloud

*Working on Search Engine with AI*

Gyeonggi-do, South Korea

*Mar. 2024 – June. 2024*

### Research Intern, NAVER LABS

*Working on Robot Manipulation (Mentor: Taeyoon Lee)*

Gyeonggi-do, South Korea

*Mar. 2023 – Sep. 2023*

### Undergraduate Research Intern, KOREA AI&Robotics Lab

*Researching on reinforcement learning for robotic manipulation skills (Advisor: Sungjoon Choi)* Jan. 2021 – Aug. 2021

Seoul, South Korea

### Programming Instructor, CMS C3Coding

*Teaching C++ Programming for Korea Olympiad in Informatics (KOI)*

Seoul, South Korea

*May. 2019 – Present*

## AWARDS & HONORS

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**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

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**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

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

- Republic of Korea. 10-2023-0125345

## INVITED TALK

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**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

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**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

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