

# Jiyoon Park

Computer Science and Engineering | Robotics | Scientific Computation

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## RESEARCH INTEREST

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My research goal is to **enable robots to do complicated tasks safely and autonomously.**

My research interests are:

- Autonomous and safe robots
- Algorithm optimization
- Deep learning
- Enhancing robot stability while performing tasks with humans

## EDUCATION

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Mar. 2018 - Present	<b>Ewha Womans University</b> Bachelor of Science in Computer Science and Engineering dual major in Scientific Computation <b>Early Graduation ( Finishing University in 3 years )</b> Honors: expected <b>Summa Cum Laude</b> (expected GPA over 4.0) <b>GPA 4.14/4.3   Rank: 2/90</b> <b>CS Major GPA 4.28/4.3</b>	Seoul, Korea
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## RESEARCH EXPERIENCES

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Feb. 2021 - Present	<b>Undergraduate Research Intern</b> - Developing a large-scale robotic drawing system that draws pen drawings on a large arbitrary surface - Working with KUKA LBR IIWA 7 R800 as the manipulator and Clearpath Robotics Ridgeback as the mobile platform - My research focuses on path planning and manipulation of the holonomic mobile base Ridgeback - Won the <b>Best Undergraduate Research Award</b> by The Korean Graphics Society	<i>Ewha Womans University</i>
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## PUBLICATIONS (NON-SCI)

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1. Eunjung Lim, **Jiyoon Park**, Daeun Song, Young J. Kim, "TSP Pen Art using a Mobile Collaborative Robot (extended abstract)", Korea Computer Graphics Society Annual Conference (KCGS), Jul 2021. [[website](#)]
2. Jisu Han, **Jiyoon Park**, Chae-won Kim, Sang-soo Park, Hieonn Kim, "Deep Learning Based Autonomous - Driving Cart Using ROS for Computation Offloading" , Korea Information Processing Society Fall Conference (KIPS), Nov 2020.

## TEACHING EXPERIENCE

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2021	<b>Peer Instructor (Tutor)</b>   Ewha Womans University Department of Computer Science & Engineering Tutored Numerical Methods (Computer Science math elective course)
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2021                    **One-Stop Tutor** | Ewha Womans University, Korea  
Department of Computer Science & Engineering  
In charge of student's code reviews and answering questions for an advanced algorithm course

## AWARDS

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2021, Jul.            **Best Undergraduate Paper Award** | Korean Computer Graphics Society  
For the abstract paper "TSP Art Using a Mobile Manipulator Robot" [[website](#)]  
2021, Jun.            **Ewha Capstone Design Project Contest** | Ewha Womans University, Korea  
2nd out of 28 teams for the "Autonomous Cart Using ROS" capstone project  
2020, Dec.           **Ewha Startup Contest** | Ewha Womans University, Korea  
Came in 1st place for the "Autonomous Cart Using ROS" capstone project  
2019, Aug.           **Ewha Sharing Story Writing Contest** | Ewha Womans University, Korea  
Came in 4th for the short essay "An undefined form of love: share"

## HONORS AND SCHOLARSHIPS

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2018 - 2022        **Admission Scholarship** | Ewha Womans University, Korea  
Entered university with full funding for 4 years of study for high admission score  
2021                **Mentoring Scholarship** | Ewha Womans University, Korea  
Worked as a One-Stop tutor specializing in advanced algorithms  
2021                **Peer Instructor Scholarship** | Ewha Womans University, Korea  
Worked as a Peer Instructor for "Numerical Methods" course  
2020                **Honors Scholarship** | Ewha Womans University, Korea  
Awarded to students who come in top 2% of the department (rank: 1/516)  
2020                **HOKMA Mentoring Scholarship** | Ewha Womans University, Korea  
Worked as a mentor to guide newly admitted students choose their majors  
2019                **Club Scholarship** | Ewha Womans University, Korea  
Funded activity fee for entering debate contests around the nation

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C/C++, Matlab, HTML/CSS/JS  
**Robotics Programming:** ROS  
**Robotics Simulator:** Gazebo, rviz  
**Robotics Hardware:** Ridgeback Mobile Platform, Turtlebot, KUKA iiwa 7 R800  
**Language:** Native in English and Korean, Good in Japanese  
TOEFL 112 (RC 29/ LC 28/ SP 30/ WR 25)