

# Jeongbin Sohn (손정빈)

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<b>EDUCATION</b>	<b>GIST(Gwangju Institute of Science and Technology)</b> Mar. 2020 - Feb. 2027 <i>B.S. Mechanical and Robotics Engineering Major / Electrical Engineering and Computer Science Minor</i> Total GPA: 4.38/4.5
	<b>University of California, Berkeley</b> Jan. 2026 - May. 2026 <i>Study Abroad Program</i>
	<b>Boston University</b> Jul. 2021 - Aug. 2021 <i>Student Exchange Program</i> Total GPA: 4.0/4.0
	<b>GSA(Gwangju Science Academy for the Gifted)</b> Mar. 2017 - Feb. 2020 <i>High School Graduation</i>
<b>RESEARCH EXPERIENCE</b>	<b>UC Berkeley Embodied Dexterity Group(EDG)</b> Jan. 2026 - Current <i>Student Intern</i> Supervisor: Prof. Hannah Stuart <i>Analyzing recorded videos of C5-C7 injured patients demonstrating the dorsal grasper.</i>
	<b>GIST Machine Perception and Intelligence(MPIL) Lab</b> Jan. 2025 - Current <i>Student Intern</i> Supervisor: Prof. Pyojin Kim <i>Developing a Star Identification algorithm using deep learning to improve robustness against various noises in night sky images.</i>
	<b>GIST Bio-Robotics Lab</b> Jul. 2024 - Dec. 2024 <i>Student Intern</i> Supervisor: Prof. Jongho Lee <i>Studying Robot Operation System(ROS) and Path Planning algorithms, I narrowed down my research interest to robotics.</i>
	<b>KITECH(Korea Institute of Industrial Technology)</b> Aug. 2023 - Feb. 2024 <i>Research Assistant</i> Supervisor: Dr. Hojae Lee <i>Translating codes into Python and implementing a domain-change algorithm for indoor localization.</i>
	<b>PUBLICATIONS</b>
	1. Conference Presentations - <b>Sohn</b> and Park 2025 <b>3DV</b> , “ <i>ECOE: Event-based Celestial Orientation Estimation</i> ”, Accepted for Poster Presentation - Park, <b>Sohn</b> , and Lee 2025 <b>ICROS</b> , “ <i>A Low-Cost Celestial Compass Under</i>

*Low-Light Featureless Environment*", Accepted for Poster Presentation

2. Articles in preparation

- **Sohn**, Lee, Park, and Hepburn-Dickins 2026 [IEEE RA-L](#), "*Edge of Stars: Learning Stellar Graphs through Angular-Edge Inversion*"

**AWARDS &  
FELLOWSHIPS**

**Study Abroad Program Scholarship** Jan. 2026 - May. 2026  
A scholarship granting 26,000 USD for eight students accepted for Study Abroad Program(SAP) to UC Berkeley.

**Korea National Science and Engineering Scholarship** Mar. 2020 - Feb. 2026  
A scholarship to fund full tuition for 8 semesters from Korea Student Aid Foundation, Ministry of Education ([국가이공계장학금](#))

**Korea-U.S. Exchange Program for Advanced Fields** Jan. 2026 - May. 2026  
An incentive scholarship of 9,000 USD bestowed by the Korea Institute of Advancement of Technology for 113 undergraduate students in South Korea.

**Woonhae Scholarship** ([운해장학금](#)) Mar. 2025 - Feb. 2026  
An incentive scholarship granting 2,780 USD per semester for 1 year bestowed by Woonhae foundation. It is granted for students whose GPAs are over 4.0.

U.S. Army Commendation Medal Jun. 2023  
GIST Mech-Eng Internship Presentation Award (2nd place) Jun. 2021

**TEACHING  
EXPERIENCE**

*Teaching Assistant* Sep. 2024 - Dec. 2024  
GIST GS2001 Multivariable Calculus and Applications

**TECHNOLOGY  
SKILLS**

*Programming Languages*:<sup>1</sup>  
Working knowledge of: Python, C++, C, MATLAB  
Familiar with: Python  
*Others*: LabVIEW, Siemens NX, COMSOL Multyphysics, OpenFOAM

**LANGUAGE  
PROFICIENCY**

Korean (native)  
English (fluent<sup>2</sup>)  
Japanese (basic knowledge)

**OTHER  
ACTIVITIES**

GIST Swimming Club Leader Mar. 2025 - Aug. 2025  
Swimming, training, and having recreation and barbecue with the club members made a collaborative sense of bond.

ELITE Club Foundation Member July. 2025 - Dec. 2025  
ELITE(English for Learning, Inquiry, Thought, and Expression) club is an English study club supervised by Prof. Ellis Lee. The foundation members build specific plans for club activities and lead group studies.

Korean-American Scientists & Engineers Association(KSEA) Member Feb. 2026 - Current

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<sup>1</sup>In order of decreasing familiarity.

<sup>2</sup>A year and a half of working at the U.S. Army base as KATUSA(Korean Augmentation To the United States Army) and 6 weeks living in the U.S as an exchange student to Boston University

KSEA is a academic club for Korean-American students in UC Berkeley. Participating in a social group, a focus group called academic journal club.

Language Exchange Program

Feb. 2026 - May. 2026

Learning English and teaching Korean simultaneously with a UC Berkeley student.