

Jeongbin Sohn (손정빈)

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EDUCATION	GIST(Gwangju Institute of Science and Technology) Mar. 2020 - Feb. 2026 <i>B.S. Mechanical and Robotics Engineering Major / Electrical Engineering and Computer Science Minor</i> Total GPA: 4.38/4.5
	University of California, Berkeley Jan. 2026 - May. 2026 <i>Study Abroad Program</i>
	Boston University Jul. 2021 - Aug. 2021 <i>Student Exchange Program</i> Total GPA: 4.0/4.0
	GSA(Gwangju Science Academy for the Gifted) Mar. 2017 - Feb. 2020 <i>High School Graduation</i>
RESEARCH EXPERIENCE	GIST Machine Perception and Intelligence(MPIL) Lab Jan. 2025 - Current <i>Student Intern</i> Supervisor: Prof. Pyojin Kim <i>Developed a ground-based technique by applying astronomical coordinate transformations to overcome the satellite-only limitations of traditional star trackers; presented this work at a domestic robotics conference. Currently researching Star Identification, a critical step in star tracking, using Graph Neural Networks with the goal of publishing at European Conference on Computer Vision(ECCV) 2026.</i>
	GIST Bio-Robotics Lab 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>
	KITECH(Korea Institute of Industrial Technology) Aug. 2023 - Feb. 2024 <i>Research Assistant</i> Supervisor: Dr. Hojae Lee <i>By translating code and improving program by using the ray-casting algorithm, I discovered the joy of research through solving problems and applying knowledge from diverse fields.</i>
PUBLICATIONS	<div>1. Conference Presentations</div> <div>- Sohn and Park 2025 3DV, “<i>ECOE: Event-based Celestial Orientation Estimation</i>”, Accepted for Poster Presentation</div> <div>- Park, Sohn, and Lee 2025 ICROS, “<i>A Low-Cost Celestial Compass Under Low-Light Featureless Environment</i>”, Accepted for Poster Presentation</div>

2. Articles in preparation
 - **Sohn**, Lee, Park, and Hepburn-Dickins 2026 [ECCV](#), “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.	
	Jeongwon Scholarship (정원장학금)	Jul. 2025 - Aug. 2025
	An incentive scholarship of 1,440 USD bestowed by Jeongwon foundation.	
	U.S. Army Commendation Medal	Jun. 2023
	GIST Mech-Eng Internship Presentation Award (2nd place)	Jun. 2021
TEACHING EXPERIENCE	<i>Teaching Assistant</i> GIST GS2001 Multivariable Calculus and Applications	Sep. 2024 - Dec. 2024
TECHNOLOGY SKILLS	<i>Programming Languages:</i> ¹ Working knowledge of: Python, C++, C, MATLAB Familiar with: Python <i>Operating Systems:</i> Linux, Windows <i>Others:</i> LabVIEW, Siemens NX, COMSOL Multyphysics, OpenFOAM	
LANGUAGE PROFICIENCY	Korean (native) English (fluent ²) 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.	

¹In order of decreasing familiarity.

²A 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