

EDUCATION	Div. of Advanced Nuclear Engineering, Pohang University of Science and Technology (POSTECH) <i>PhD integrated student</i> Pohang, South Korea 2024. 09 - <ul style="list-style-type: none"> • Advisor: Prof. Moses Chung • Research area: RF deflecting cavity, Beam diagnostics, Beam dynamics 	
	Dept. of Electronics and Information Engineering, Korea University <i>B.E. in Electronics and Information Engineering</i> Sejong, South Korea 2019 - 2023 <ul style="list-style-type: none"> • Great honor 	
PUBLICATION	1. Three data-selection approaches for beam position monitor offline calibration G. Kim, E.S. Kim, J.W. Kwon, S. Jang*. <i>Journal of Instrumentation (JINST)</i> . 2024.06	
INTERNSHIPS	Instution for Rare Isotope Science (IRIS) Daejeon, Korea <ul style="list-style-type: none"> • Data analysis of beam position monitors and study of analog electronic components. 	2024.03 - 2024.07
	Helmholtz-Zentrum Berlin (HZB) Berlin, Germany <ul style="list-style-type: none"> • Analysis of longitudinal eigenfrequency of electron beam and measurement. 	2022.07 - 2022.08
AWARDS AND HONORS	• POSTECHIAN Fellowship (Creativity) , Exceptional incoming graduate student Pohang University of Science and Technology (POSTECH)	2024. 11
	• Gold award , Elegant simulation hands-on training International School on Beam dynamics and Accelerator Technology (ISBA23)	2023. 08
	• Outstanding award , Accelerator summer school, Korea University	2023. 07
	• Great honor , Korea University	2023. 02
	• Dean's list , Korea University	2022. 02
ACTIVITIES	Oral Presentations	
	1. Longitudinal phase space reconstruction simulation (Domestic) 2025 Accelerator beam diagnostics collaboration workshop	2025.04
	2. Measurements of synchronous tune under extreme circumstances International School on Beam dynamics and Accelerator technology (ISBA23)	2023.08
	Poster Presentations	
	1. Optimization of transverse deflecting cavity for longitudinal beam diagnostics (Domestic) 2025 KPS Spring Meeting	2025. 04
	2. Design and simulation of iris-loaded RF deflecting cavity for PAL-eLABs 26th International Conference on Accelerators and Beam Utilization (ICABU2024)	2024. 11
	3. Higher-order Calibration of Button-type Beam Position Monitor via a test bench 25th International Conference on Accelerators and Beam Utilization (ICABU2023)	2023. 11
	4. Analysis of longitudinal eigenfrequency of electron beams and measurement through chromatic coupling in a storage ring at extreme condition HZB Summer Student Programme (SSP2022)	2022. 08

SKILLS	Languages: Korean, English.	
	Programming: Python, Matlab.	
	Simulation tools: CST studio suite, ASTRA, Elegant, LTspice.	
EXPERIENCE	Experienced at Korea University	
	General Physics and Exercise I (DSSP161)	
	<i>Teaching Assistant (TA)</i>	Spring 2024
	General Physics and Exercise I (DSSP161)	
	<i>Teaching Assistant (TA)</i>	Spring 2023
	General Physics and Exercise II (DSSP162)	
	<i>Teaching Assistant (TA)</i>	Fall 2023
	Introduction to Physics (DSSP167)	
	<i>Teaching Assistant (TA)</i>	Spring 2024
	Introduction to Physics (DSSP167)	
	<i>Teaching Assistant (TA)</i>	Spring 2023
	Conceptual Physics (DSSP169)	
	<i>Teaching Assistant (TA)</i>	Spring 2023