

# Kyuhwan Shim

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## EDUCATION

**Seoul National University, Biointelligence Lab**, Seoul, Korea

- Master's Student @ Graduate School of Artificial Intelligence

Sep 2024 – Presents

**Sogang University**, Seoul, Korea

- Bachelor of Engineering @ Computer Science

Mar 2019 – Aug 2024

**Chungnam Science High School**, Chungnam, Korea

Mar 2016 – Feb 2019

## PUBLICATIONS

### INTERNATIONAL CONFERENCE

- [C1] **CLIP-RT : Learning Language-Conditioned Robotic Policies from Natural Language Supervision**, Gi-Cheon Kang\*, Junghyun Kim\*, Kyuhwan Shim, Jun Ki Lee<sup>†</sup>, Byoung-Tak Zhang<sup>†</sup>  
*Robotics: Science and Systems (RSS), 2025*  
*Conference of Robot Learning (CoRL) 2024, Workshop on Language and Robot Learning*

### DOMESTIC JOURNALS

- [D4] **Scaling Language-Conditioned Policies with Fast and Lightweight Architectures**, Junghyun Kim\*, Gi-Cheon Kang\*, Kyuhwan Shim, Eungseo Kim, Jun Ki Lee<sup>†</sup>, Byoung-Tak Zhang<sup>†</sup>  
*Korea Computer Congress 2024*  
🏆 Excellent Presentation Award
- [D3] **Generalizing Language-Conditioned Robotic Policies via Large Language Models**, Junghyun Kim\*, Gi-Cheon Kang\*, Kyuhwan Shim, Eungseo Kim, Jun Ki Lee<sup>†</sup>, Byoung-Tak Zhang<sup>†</sup>  
*Korea Computer Congress 2024*  
🏆 Excellent Presentation Award
- [D2] **Stochastic Trajectory Diversification for Language-based Robot Action Learning**, Junghyun Kim\*, Gi-Cheon Kang\*, Kyuhwan Shim, Jun Ki Lee<sup>†</sup>, Byoung-Tak Zhang<sup>†</sup>  
*Korea Software Congress 2024*  
🏆 Excellent Presentation Award
- [D1] **KIRINO: An Interactive Chatbot System for User Persona**, Geon Choi\*, Ganghun Kim\*, Hyunjae Kim\*, Kyuhwan Shim\*, Myoungwan Koo<sup>†</sup>  
*Korea Computer Congress 2024*  
🏆 Excellent Paper Award

## RESEARCH EXPERIENCE

**Autonomous Intelligent Systems Group**, (PI: Sven Behnke), Universität Bonn, Deutschland

Visiting Student Researcher

Jul 2024 – Aug 2024

**Biointelligence Lab**, Seoul National University

Undergraduate Student Researcher

Dec 2023 – Aug 2024

**Lee Lab**, Graduate School of Data Science, Seoul National University

Mentee of ExploreCSR Program (with Google Research)

Dec 2023 – Feb 2024

## WORK EXPERIENCE

**Team Tidyboy-DSPL** Seoul, Korea

Mar 2024 – Aug 2024

- **[Vision Language]** Developed Vision-based Pipeline for real-time environment understanding for Robot

**Machine Learning Engineer Intern, Nota Inc.** Seoul, Korea

Mar 2023 – Aug 2023

- **[Vision]** Developed Vision-based Pipeline Models for Intelligent Traffic System on Edge Device
- **[DataOps & MLOps]** Construct Datalake and ML Pipeline on AWS and GCP

**Co-Founder, OCONNECT** Ulsan, Korea

Jun 2020 – Feb 2023

- Student Venture which makes Easy-Insert Socket, OneStep (CEO Hyeong-Jun Bang) **[R&D Didimdol]**
- **[Achievement]** Winner @ James Dyson Award '22 KR, Ulsan Collegiate Startup Competition

**Yeongdong Firestation**, Yeongdong, Chungbuk, Korea

- Military Duty as a Korean Conscripted Firefighters

Aug 2020 – Apr 2022

## TEACHING EXPERIENCE

**Artificial Intelligence (4190.408)**, Seoul National University

Mar 2025 – Jun 2025

**Translation Volunteer**, Khan Academy & Chungnam Science High School

Jun 2017 – Dec 2017

## AWARDS & ACTIVITIES

**Encouragement Award**, SNU Graduate School of AI Thesis Competition

Jun 2025

	<b>Encouragement Award</b> , SNU Graduate School of AI Thesis Competition	Dec 2024
	<b>Finalist (Top 3)</b> , Robocup2024 @ Eindhoven	
	▪ <b>🏆 Finalist</b> in the Robocup@Home DSPL League	Aug 2024
	<b>Runner-Up (2nd Place)</b> , SNU Graduate School of Data Science	2024
	<b>Top 30</b> , Samsung Advanced Institute of Technology, DAICON	
	▪ [Samsung AI Challenge] Camera-Invariant Domain Adaptation Challenge	
	▪ Domain Adaptive Segmentation Algorithm Robust to Camera Changes (with SePiCo)	
	▪ <b>🏆</b> Joined Talent pool of Samsung Electronics	Sep 2023
	<b>Grand Prize (1st Place, Mayor of Gangseo-gu Office)</b> , Gangseo-gu Office	
	▪ <b>[PPT]</b> Risk Rating Model for Small Business Owners using the Credit Rating Model	2023
	<b>Grand Prize (Nat'l Information Society Agency President Award)</b> , NIA, Minister of Sci. & Tech.	2022
	<b>Excellence Award</b> , Chung-nam Science Fair (64th)	2018
	<b>Special Prize</b> , Chung-nam Science Fair (63th)	2017
<b>SCHOLARSHIPS</b>	<b>SNU AI Fellowship</b> , Seoul Nat'l University	2024 Fall - 2026 Summer
	<b>Sogang University Alumni Scholarship</b> , Sogang University Alumni Association	
	▪ Priest Villarreal Memorial from Smilegate (2023-2024), General (2020), Startup Talents (2022)	
	<b>Albatross Scholarship</b> , Sogang University <b>[talents in SW Fields]</b>	2019
<b>CERTIFICATES</b>	<b>Certificate in Tensorflow Developers</b> , Tensorflow Certificate Program	Oct 2021 – Oct 2024
	<b>Advanced Data Analytics Semi-Professional</b> , Korea Data Agency	Apr 2021
	<b>ITQ (MS Office) &amp; GTQ (Photoshop)</b> , Hanja : Lv3	Oct 2011
<b>MEDIA</b>	<b>Excellence Paper Award in the Undergraduate Division at KCC 2024</b> , Sogang People	Jun 2024
	<b>'Nunettine' wins Grand Prize at Gangseo-gu Big Data Contest</b> , Sogang People	May 2023
	<b>'DAVENGERS' wins BIGCONTEST Data Analytics Innovation League</b> , Sogang People	Dec 2022
	<b>UNIST venture 'OCONNECT' wins James Dyson Awards 2022</b> , UNIST Press	Sep 2022
<b>SPEECH</b>	▪ <b>[PDF] Seminar</b> Samsung DAICON Challenge - Domain Adaptation @ Release(Sogang CS)	Dec 2023
	▪ <b>[PDF] Seminar</b> Dive into YOLOv8 @ Nota Inc.	Mar 2023
	▪ <b>[PDF] Undergraduate Speech</b> at Carbon Neutral Workshop @ Shinhan Card & World Bank	2023