

Kyuhwan Shim

kyuhwan.shim@snu.ac.kr • <https://underthelights.github.io> • LinkedIn
Bldg. #404, 1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea

EDUCATION

Seoul National University, Biointelligence Lab, Seoul, Korea

- Master's Student @ Graduate School of AI

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[†], Byoung-Tak Zhang[†]
RSS 2025 (Under Review)

CoRL 2024, 3rd Workshop on Language and Robot Learning (LangRob)

DOMESTIC JOURNALS

- [D2] **Stochastic Trajectory Diversification for Language-based Robot Action Learning**, Junghyun Kim*, Gi-Cheon Kang*, **Kyuhwan Shim**, Jun Ki Lee[†], Byoung-Tak Zhang[†]
Korea Software Congress 2024

🏆 Excellence Presentation Award

- [D1] **KIRINO: An Interactive Chatbot System for User Persona**, Geon Choi*, Ganghun Kim*, Hyunjae Kim*, **Kyuhwan Shim***, Myoungwan Koo[†]
Korea Computer Congress 2024

🏆 Excellence Paper Award for Undergraduate

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

AWARDS & ACTIVITIES

Encouragement Award, Seoul Nat'l U. Graduate School of AI Thesis Competition

Dec 2024

Finalist (Top 3), Robocup2024 @ Eindhoven

- 🏆 **Finalist** in the Robocup@Home DSPL League

Aug 2024

Runner-Up (2nd Place), Graduate School of Data Science @ Seoul Nat'l University

2024

Top 30, Samsung Advanced Institute of Technology, DAICON

- **[Samsung AI Challenge]** Camera-Invariant Domain Adaptation Challenge

- Domain Adaptive Segmentation Algorithm Robust to Camera Changes (with SePiCo)

- 🏆 Joined Talent pool of Samsung Electronics

Sep 2023

Grand Prize (1st Place, Mayor of Gangseo-gu Office), Gangseo-gu Office

- **[PPT]** Risk Rating Model for Small Business Owners using the Credit Rating Model

2023

Grand Prize (Nat'l Information Society Agency President Award), NIA, Minister of Sci. & Tech. 2022

	Excellence Award , Chung-nam Science Fair (64th)	2018
	Special Prize , Chung-nam Science Fair (63th)	2017
SCHOLARSHIPS	SNU AI Fellowship , Seoul Nat'l University 2024 Fall - 2026 Summer Sogang University Alumni Scholarship , Sogang University Alumni Association ▪ Priest Villarreal Memorial from Smilegate (2023-2024), General (2020), Startup Talents (2022) Albatross Scholarship , Sogang University [talents in SW Fields]	2019
CERTIFICATES	Certificate in Tensorflow Developers , Tensorflow Certificate Program Oct 2021 – Oct 2024 Advanced Data Analytics Semi-Professional , Korea Data Agency Apr 2021 ITQ (MS Office) & GTQ (Photoshop) , Hanja : Lv3 Oct 2011	
MEDIA	Excellence Paper Award in the Undergraduate Division at KCC 2024 , Sogang People Jun 2024 'Nunettine' wins Grand Prize at Gangseo-gu Big Data Contest , Sogang People May 2023 'DAVENGERS' wins BIGCONTEST Data Analytics Innovation League , Sogang People Dec 2022 UNIST venture 'OCONNECT' wins James Dyson Awards 2022 , UNIST Press Sep 2022	
SPEECH	▪ [PDF] Seminar Samsung DACON Challenge - Domain Adaptation @ Release(Sogang CS) Dec 2023 ▪ [PDF] Seminar Dive into YOLOv8 @ Nota Inc. Mar 2023 ▪ [PDF] Undergraduate Speech at Carbon Neutral Workshop @ Shinhan Card & World Bank 2023	
PROJECTS	Samsung AI Challenge - Camera Invariant Domain Adaptation Sep 2023 –Oct 2023 ▪ [PPT] Domain Adaptation for Fisheye Images with SePiCo ▪ [My Job] Applying Fisheye Augmentation, Transformer based Segmentation model, Model Research ▪ [Tech Stack] Python, Pandas, NumPy, PyTorch Hyunjae Kim, Game Review Dashboard Implementation with NLP Sentimental Analysis May 2023 –Jun 2023 ▪ [PPT] Game Review Analysis Dashboard applying NLP Methods : BiLSTM, KoBERT (Fine-tuned) ▪ [My Job] Developing Game Review NLP Dashboard Main Page Configuration ▪ [Tech Stack] Python, Pandas, NumPy, PyTorch, TensorFlow, Docker, FastAPI, KoNLPy, Plotly ▪ [Team NT Fragile] Hyunjae Kim, ChanJoong Lee, Beomyun Kwon, Chanhoo Park, Minhye Lee Risk Rating Model for Small Business Owners using the Credit Rating Model Mar 2023 –May 2023 ▪ [Award] [PPT] Mayor of Gangseo-gu Office Award ▪ Integrated data in Gangseo-gu, focusing on data from the Seoul Credit Guarantee Foundation Risk Rating model for small business owners in Gangseo-gu using the credit rating model ▪ [Link] Creating a Risk Index Dashboard with Tableau ▪ [My Job] Data Analysis & Processing, Designing Presentation ▪ [Tech Stack] Python, Pandas, NumPy, Tableau ▪ [Team NUNETTINE] Heejin Park, Mijung Bang, Moonil Yang Eco-friendly travel route RecSys in Jeju Island Sep 2022 – Oct 2022 ▪ [Link] [Award] [PPT] Nat'l Information Society Agency (NIA) President Award ▪ [My Job] Prototype Design with Streamlit & Design an Official Project Webpage, CI/CD with GitHub • Assist on applying NLP methods and designing an user-specific ML algorithm ▪ [1] Carbon Footprint Calculator Construct Carbon Footprint Calculator by Travel Area • Defined Categories : Traffic, Food, Accommodation and Tourism • Crawling raw data from 'VISIT JEJU' & 'NAVER Map' • Processing & Cleansing & EDA and Design Calculator Logic for those 4 categories ▪ [2] Eco-Friendly & User-Specific JEJU Travel Route Recommender System • [Traveler Feature Hexagon] Deployed with Streamlit • [Link] Score Calculation by Tourist Spot with NLP, Word2Vec, t-SNE, Clustering • [Link] Rule-Based Machine Learning Algorithm ▪ [Team DAVENGERS] Jeonghyun Ha, Kyunghoon Na, Kyungjoo Ko, Hannah Jung	