

Kyuhwan Shim

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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

WORKSHOP

[W1] Gi-Cheon Kang*, Junghyun Kim*, Kyuhwan Shim, Jun Ki Lee[†], and Byoung-Tak Zhang[†]

“CLIP-RT : Learning Language-Conditioned Robotic Policies from Natural Language Supervision”, *3rd Workshop on Language and Robot Learning (LangRob) @ The Conference on Robot Learning (CoRL 2024)* Oct 2024

DOMESTIC JOURNALS

[D1] Geon Choi*, Ganghun Kim*, Hyunjae Kim*, Kyuhwan Shim*, and Myoungwan Koo[†],

“KIRINO : An Interactive Chatbot System for User Persona”, *Korea Computer Congress*,

🏆 Excellence Paper Award

Jun 2024

RESEARCH EXPERIENCE

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

Visiting Student Researcher

Jul 2024 – Aug 2024

Biointelligence Lab, Seoul Nat'l University

Undergraduate Student Researcher

Dec 2023 – Aug 2024

Lee Lab, Graduate School of Data Science, Seoul Nat'l 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

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

Finalist (Top 30), LG AI Research & DAICON

- Smart Factory Product Quality Status Classification on LG Aimers

- 🏆 Phase-3 Online Hackathon Finalist, Phase-2 3% for Entire Pool (891)

Jan 2023- Mar 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.

- BIGCONTEST Data Analytics Innovation League 2022 Grand Prize (Runner-Up)

- **[PPT] [PRJ]** Carbon Footprint Calculator & Eco-friendly JEJU travel route RecSys.

2022

Excellence Award, Chung-nam Science Fair (64th)

	<ul style="list-style-type: none"> ▪ [Poster] Solar Power System considering the impact of Wave Height Special Prize, Chung-nam Science Fair (63th) ▪ [Poster] Laser Cutting Machine Using Mechanum Wheels 	2018 2017
SCHOLARSHIPS	SNU AI Fellowship , Seoul Nat'l University Sogang University Alumni Scholarship , Sogang University Alumni Association <ul style="list-style-type: none"> ▪ Priest Villarreal Memorial from Smilegate (2023-2024), General (2020), Startup Talents (2022) Albatross Scholarship , Sogang University [talents in SW Fields]	2024 Fall - 2026 Summer 2019
CERTIFICATES	Certificate in Tensorflow Developers , Tensorflow Certificate Program Advanced Data Analytics Semi-Professional , Korea Data Agency ITQ (MS Office) & GTQ (Photoshop) , Hanja : Lv3	Oct 2021 – Oct 2024 Apr 2021 Oct 2011
MEDIA	Excellence Paper Award in the Undergraduate Division at KCC 2024 , Sogang People 'Nunettine' wins Grand Prize at Gangseo-gu Big Data Contest , Sogang People 'DAVENGERS' wins BIGCONTEST Data Analytics Innovation League , Sogang People UNIST venture 'OCONNECT' wins James Dyson Awards 2022 , UNIST Press	Jun 2024 May 2023 Dec 2022 Sep 2022
SPEECH	<ul style="list-style-type: none"> ▪ [PDF] Seminar Samsung DACON Challenge - Domain Adaptation @ Release(Sogang CS) ▪ [PDF] Seminar Dive into YOLOv8 @ Nota Inc. ▪ [PDF] Undergraduate Speech at Carbon Neutral Workshop @ Shinhan Card & World Bank 	Dec 2023 Mar 2023 2023
PROJECTS	Samsung AI Challenge - Camera Invariant Domain Adaptation <ul style="list-style-type: none"> ▪ [PPT] Domain Adaptation for Fisheyed 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 <ul style="list-style-type: none"> ▪ [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 <ul style="list-style-type: none"> ▪ [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 2023 –Oct 2023 May 2023 –Jun 2023 Mar 2023 –May 2023 Sep 2022 – Oct 2022
	<ul style="list-style-type: none"> ▪ [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 <ul style="list-style-type: none"> • Assist on applying NLP methods and designing an user-specific ML algorithm ▪ [1] Carbon Footprint Calculator Construct Carbon Footprint Calculator by Travel Area <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • [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 	