

Kyuhwan Shim

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Institute of Computer Technology, 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's Degree in Computer Science	Mar 2019 – Aug 2024
	Chungnam Science High School , Chungnam, Korea	Mar 2016 – Feb 2019
PUBLICATIONS	JOURNALS	
	[J1] Geon Choi*, Ganghun Kim*, Hyunjae Kim*, <u>Kyuhwan Shim*</u> , and Myoungwan Koo†, “KIRINO : An Interactive Chatbot System for User Persona” , <i>Korea Computer Congress</i> , 🏆 Excellence Paper Award Jun 2024.	
RESEARCH EXPERIENCE	Autonomous Intelligent Systems Group , 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 based on YOLOv10 and CLIP for real-time environment understanding for Toyota-HSR	
	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, DAEJEON	
	▪ [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 & DAEJEON	
	▪ 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)	
	▪ [Poster] Solar Power System considering the impact of Wave Height	2018
	Special Prize , Chung-nam Science Fair (63th)	
	▪ [Poster] Laser Cutting Machine Using Mechanum Wheels	2017

SCHOLARSHIPS	SNU AI Fellowship, Seoul Nat'l University	2024 Fall - 2026 Summer
	Sogang University Alumni Scholarship, Sogang University Alumni Association	
	<ul style="list-style-type: none"> ▪ Scholarship for General (2020), Startup Talents (2022) ▪ Priest Villarreal Memorial Scholarship (2023-2024) [Awarded from SMILEGATE CEO] 	
	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)	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
LANGUAGES	▪ Korean: Native / English: Fluent	
	▪ Hanja : Lv-3 (Korea Association for the Promotion of Hanja Edu.)	
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 Dashborad 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	

OCONNECT

<http://oconnect.kr>



ONE STEP, an easy to plug in outlet

REP.	CEO Hyeong-Jun Bang		
MEMBERS	CTO Jinseo Park CDO Kyuhwan Shim		
LOCATION	UNISPARK, UNIST Bldg. 307 1F, 50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan, Republic of Korea		
AWARDS	<ul style="list-style-type: none">▪ JAMES DYSON AWARD 2022 - Nat'l, Korea, James Dyson Foundation<ul style="list-style-type: none">▫ Winner (TOP 3), International Competetion Jul 2022▪ PIN UP Concept Design Award 2021, KAID<ul style="list-style-type: none">▫ BEST 100 in Living Goods Design Dec 2021▪ Busan-Ulsan-KyungPook Startup Day Innovation Ventures League Samsung Electronics KyungPook, Ulsan, Busan Creative Econ. & Innov. Center<ul style="list-style-type: none">▫ Excellence Prize at Futures' League Dec 2021▪ Challenge K-Startup Expo : Collegiate Competition Ministry of SMEs and Startups, Korean Institute of Startup & Entrepreneurship Developement<ul style="list-style-type: none">▫ Top 10, Offline Exhibition Oct 2021▫ Top 50, Offline Exhibition Aug 2019▪ Social Challenge alpha 7, OhMyCompany, BSS, LISCC<ul style="list-style-type: none">▫ Challenge Award, Crowd Funding (Funded 1,424,000 KRW) Sep 2020 – Dec 2020▪ Ulsan Collegiate Startup Excellent Idea Contest Ulsan Creative Econ. & Innov. Center<ul style="list-style-type: none">▫ Winner : Grand Prize Nov 2020▪ Institute of Science & Technology Startups Competition KAIST, GIST, DGIST, UNIST, POSTECH<ul style="list-style-type: none">▫ Representative of UNIST (Top 2 at UNIST) Dec 2020▫ Representative of UNIST (Top 3 at UNIST) Nov 2019		
FUNDINGS & SUPPORT PROGRAM	<ul style="list-style-type: none">▪ DIDIMDOL First Step - Startup Growth Development Project, Ministry of SMEs and Startups,<ul style="list-style-type: none">▫ Recommended from Ulsan Creative Econ. & Innov. Center Aug 2022 – Jul 2023▪ Ulju Youth Startup Academy, Ulsan Youth Startup Center Mar 2022 – Dec 2022▪ Pre-IBK Changgong @ UNIST, UNIST, IBK Changgong Jul 2022 – Nov 2022▪ Private-Sector Open Start-up Revitalization Project, Ulsan Creative Econ. & Innov. Center May 2022 – Oct 2022▪ BUSAN BIGS Program, Busan-si, KSD, KHUG, KOSPO, HF, KIBO, Busan PA, BNK Mar 2022 – Sep 2022▪ Innopolis Campus for Ulsan Collegiate, UNIST, Innopolis Jun 2021 – Aug 2022▪ 12th UEPA Startup Incubator, Ulsan Youth Startup Center Mar 2021 – Dec 2021▪ SBC Youth Entrepreneurship Academy, Korea SMEs and Startups Agency<ul style="list-style-type: none">▫ Most Funded Startup Company (100,000,000 KRW)▫ Excellent Completion at Pre-School		

	<ul style="list-style-type: none"> ▫ 'Pre-School' Completion of Excellence & Youth Startup Academy Nov 2020 – Nov 2021 	
	<ul style="list-style-type: none"> ▪ UNIST UNICORN Start-Up Support Program, UNIST <ul style="list-style-type: none"> ▫ Funding (12,000,000 KRW) ▫ Participated for Four Semesters 	Sep 2019 – Feb 2021
	<ul style="list-style-type: none"> ▪ KISED Pre-Startup Package (General Field), Korea Institute of Startup & Entrepreneurship Development <ul style="list-style-type: none"> ▫ Most Funded (70,000,000 Won) 	Apr 2020– Dec 2020
ACTIVITIES	<ul style="list-style-type: none"> ▪ Ulsan Knowledge-Technology Startup Center, Ulsan Technopark ▪ Patent IP Training Education, Intellectual Property Office ▪ K-Camp Busan, Krypton 	Oct 2020 Jun 2020 – Dec 2020 Nov 2019 – May 2020
MEDIAS	<ul style="list-style-type: none"> ▪ UNIST Startup OCONNECT wins at JAMES DYSON AWARD 2022, UNIST Press, CHOSUN Ilbo, Segye Ilbo, Sisa-news, Newsis ▪ UNIST 2021 Innopolis Performance Presentation, UNIST Press, UlsanDaily, ETNews ▪ UNIST UNISPARK for Young Entrepreneurs UNIST Magazine 2021 Winter ▪ Southeast Venture Competition held by UNIST Lab Startup Innovation Group The Korea Economy TV ▪ "New evolution of electrical outlets..." OneStep is released The Korea Economic Daily ▪ "Make a 'National Outlet' which 'Connects' warmth to each other" UNIST Magazine 2021 Spring ▪ "Doing businesses regardless of COVID-19" - Leap forward with technology SBS, UBC 	Feb 2022 Feb 2022 Dec 2021 Dec 2021 Dec 2021 Feb 2021 Feb 2021
PATENTS	<ul style="list-style-type: none"> ▪ Patent Registration ▪ Patent Application <ul style="list-style-type: none"> ▫ Design Registration Application, H. J. Bang(2021) ▪ International PCT Application ▪ Trademark Application 	