

Changhun Kim

CONTACT INFORMATION	Position: Machine Learning Researcher @ AITRICS Email: changhun.kim@aitrics.com , chan9hun.k1m@gmail.com Links: Homepage , Google Scholar , GitHub , LinkedIn , X
RESEARCH INTERESTS	My research interests lie in developing scalable and provable machine learning algorithms for various applications. Currently, I am particularly intrigued by the following topics: Generalizable Deep Learning: Test-Time Adaptation, Meta-Learning, Zero-Shot Learning Generative Models: Diffusion Models, Generative Adversarial Networks Bayesian Machine Learning: Bayesian Deep Learning, Bayesian Nonparametrics
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) Daejeon, South Korea M.S. in Artificial Intelligence Mar. 2022 – Feb. 2024 <ul style="list-style-type: none">Thesis: Test-Time Adaptation for Automatic Speech Recognition via Sequential-Level Generalized Entropy MinimizationAdvisor: Eunho YangGPA: 4.25/4.3, 4.0/4.0, 99.5% (Department Salutatorian, Top 0.7% of all Department) B.S. in Computer Science and Mathematics (Double Major) Mar. 2017 – Feb. 2022 <ul style="list-style-type: none">Magna Cum Laude with Honors in EngineeringGPA: 3.92/4.3, 3.81/4.0, 96.2% (Top 9% in the Department)
PUBLICATIONS	*: Equal Contribution CloudFixer: Test-Time Adaptation for 3D Point Clouds via Diffusion-Guided Domain Translation Hajin Shim*, Changhun Kim* and Eunho Yang Under Review SGEM: Test-Time Adaptation for Automatic Speech Recognition via Sequential-Level Generalized Entropy Minimization [paper] [code] Changhun Kim , Joonhyung Park, Hajin Shim and Eunho Yang Conference of the International Speech Communication Association (INTERSPEECH), 2023 Oral Presentation, 348/2293=15.18%
RESEARCH EXPERIENCE	Medical AI Division, AITRICS Seoul, South Korea Machine Learning Researcher Nov. 2023 – Present <ul style="list-style-type: none">Conduct research on large language model and test-time adaptation for time series analysis, with a particular emphasis on biomedical signal analysis, in collaboration with Prof. Eunho Yang. Machine Learning and Intelligence Laboratory, KAIST Daejeon, South Korea Master's Student Mar. 2022 – Feb. 2024 <ul style="list-style-type: none">Explore modality-specific test-time adaptation strategies on diverse tasks, such as 3D point cloud classification, zero-shot transfer of vision-language models, automatic speech recognition, and tabular classification under Prof. Eunho Yang. Research Intern Jun. 2021 – Feb. 2022 <ul style="list-style-type: none">Investigate a style matching denoiser for automatic speech recognition under the supervision of Prof. Eunho Yang.

WORK EXPERIENCE	Vehicular Intelligence Laboratory, KAIST	Daejeon, South Korea
	Research Intern	Oct. 2019 – Aug. 2020
	<ul style="list-style-type: none"> ▪ Research a deep reinforcement learning system for AI soccer, and develop rule-based and deep learning AI soccer code generators under the guidance of Prof. Dongsoo Har. 	
	MLOps Squad, DeepNatural AI	Seoul, South Korea
	Machine Learning Engineer	Sep. 2020 – Feb. 2021
	<ul style="list-style-type: none"> ▪ Construct diverse machine learning systems, including speaker verification and diarization framework, Duchenne smile classifier, and medical product recommender system. 	
	Big Data Center, Netmarble	Seoul, South Korea
	Data Engineer	Jun. 2019 – Aug. 2019
	<ul style="list-style-type: none"> ▪ Develop log-based real-time OLAP service for Seven Knights mobile game. 	
HONORS AND AWARDS	Best MLILAB Member for 2022 – 2023 , KAIST	Jul. 2023
	Dongwon Scholarship (Full M.S.) , KAIST	2022 – 2023
	Magna Cum Laude , College of Engineering, KAIST	Feb. 2022
	Silver Prize , Korean Undergraduate Mathematics Competition	Jan. 2022
	Overseas Exchange Scholarship , Mirae Asset	Dec. 2019
	Representative of Student Exchange Ambassador , KAIST	Nov. 2019
	Honor Student , College of Engineering, KAIST	Sep. 2019
	Convergence AMP Scholarship , KAIST	Mar. 2019
	Winner , Science Quiz, KAIST-POSTECH Science War	Sep. 2018
	Participation Prize , Urban Design Competition, CEE, KAIST	Dec. 2017
	National Scholarship (Full B.S.) , KAIST	2017 – 2021
SKILLS	Programming Skills	
	Programming Languages: C/C++, Java, Python, SQL	
	Libraries/Frameworks: PyTorch, TensorFlow	
	Languages	
	Advanced in English and Native in Korean	