

## Changhun Kim

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CONTACT INFORMATION	<b>Position:</b> Master's Student @ <a href="#">KAIST AI</a> , Machine Learning Researcher @ <a href="#">AITRICS</a> <b>Email:</b> <a href="mailto:changhun.kim@kaist.ac.kr">changhun.kim@kaist.ac.kr</a> <b>Links:</b> <a href="#">Homepage</a> , <a href="#">Google Scholar</a> , <a href="#">GitHub</a> , <a href="#">LinkedIn</a> , <a href="#">X</a>
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: <b>Generalizable Deep Learning:</b> Test-Time Adaptation, Meta-Learning, Zero-Shot Learning <b>Generative Models:</b> Diffusion Models, Generative Adversarial Networks <b>Bayesian Machine Learning:</b> Bayesian Deep Learning, Bayesian Nonparametrics
EDUCATION	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Daejeon, South Korea <b>M.S. in Artificial Intelligence</b> Mar. 2022 – Present <ul style="list-style-type: none"><li>Thesis: <a href="#">Test-Time Adaptation for Automatic Speech Recognition via Sequential-Level Generalized Entropy Minimization</a></li><li>Advisor: <a href="#">Eunho Yang</a></li><li>GPA: 4.25/4.3, 4.0/4.0, 99.5%</li></ul> <b>B.S. in Computer Science and Mathematics (Double Major)</b> Mar. 2017 – Feb. 2022 <ul style="list-style-type: none"><li>Magna Cum Laude with Honors in Engineering</li><li>GPA: 3.92/4.3, 3.81/4.0, 96.2%</li></ul>
PUBLICATIONS	*: Equal contribution <b>CloudFixer: Test-Time Adaptation for 3D Point Clouds via Diffusion-Guided Domain Translation</b> Hajin Shim*, <b>Changhun Kim*</b> and Eunho Yang Under Review <b>SGEM: Test-Time Adaptation for Automatic Speech Recognition via Sequential-Level Generalized Entropy Minimization</b> <a href="#">[paper]</a> <a href="#">[code]</a> <b>Changhun Kim</b> , Joonhyung Park, Hajin Shim and Eunho Yang Conference of the International Speech Communication Association (INTERSPEECH), 2023 <b>Oral Presentation, 348/2293=15.18%</b>
RESEARCH EXPERIENCE	<b>Medical AI Division, AITRICS</b> Seoul, South Korea Machine Learning Researcher Nov. 2023 – Present <ul style="list-style-type: none"><li>Conduct research on test-time adaptation for time series analysis, with a particular emphasis on biomedical signal analysis, in collaboration with Professor <a href="#">Eunho Yang</a>.</li></ul> <b>Machine Learning and Intelligence Laboratory, KAIST</b> Daejeon, South Korea Master's Student Mar. 2022 – Present <ul style="list-style-type: none"><li>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 Professor <a href="#">Eunho Yang</a>.</li></ul> Research Intern Jun. 2021 – Feb. 2022 <ul style="list-style-type: none"><li>Investigate a style matching denoiser for automatic speech recognition under the supervision of Professor <a href="#">Eunho Yang</a>.</li></ul>

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