

## Changhun Kim

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CONTACT INFORMATION	<b>Position:</b> Machine Learning Researcher @ <a href="#">AITRICS</a> <b>Phone:</b> +82-10-3264-6509 <b>Email:</b> <a href="mailto:chan9hun.k1m@gmail.com">chan9hun.k1m@gmail.com</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	<b>Generalizable Deep Learning:</b> Test-Time Adaptation, Meta-Learning, Zero-Shot Learning <b>Generative Models:</b> Diffusion Models, Text-to-{Image, 3D, Speech} Synthesis <b>Bayesian Machine Learning:</b> Bayesian Deep Learning, Bayesian Nonparametrics	
EDUCATION	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <b>M.S. in Artificial Intelligence</b> <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% (Department Salutatorian, Top 0.7% of all Departments)</li></ul> <b>B.S. in Computer Science and Mathematics (Double Major)</b> <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% (Top 9% in the Department)</li></ul>	Daejeon, South Korea Mar. 2022 – Feb. 2024  Mar. 2017 – Feb. 2022
PUBLICATIONS	*: Equal Contribution <b>Stable-TTS: Stable Speaker-Adaptive Text-to-Speech Synthesis via Prosody Prompting under Limited Target Samples</b> Wooseok Han*, Minki Kang*, <b>Changhun Kim</b> and Eunho Yang Under Review  <b>CloudFixer: Test-Time Adaptation for 3D Point Clouds via Diffusion-Guided Geometric Transformation</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=15.2%</b>	
RESEARCH EXPERIENCE	<b>Medical AI Division, AITRICS</b> Machine Learning Researcher <ul style="list-style-type: none"><li>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. <a href="#">Eunho Yang</a>.</li></ul> <b>Machine Learning and Intelligence Laboratory, KAIST</b> Master's Student <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 Prof. <a href="#">Eunho Yang</a>.</li></ul> Research Intern <ul style="list-style-type: none"><li>Investigate a style matching denoiser for automatic speech recognition under the supervision of Prof. <a href="#">Eunho Yang</a>.</li></ul> <b>Vehicular Intelligence Laboratory, KAIST</b>	Seoul, South Korea Nov. 2023 – Present  Daejeon, South Korea Mar. 2022 – Feb. 2024  Jun. 2021 – Feb. 2022  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 Prof. <a href="#">Dongsoo Har</a>.</li> </ul>	
WORK EXPERIENCE	<b>MLOps Squad, DeepNatural AI</b> Machine Learning Engineer	Seoul, South Korea 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> Data Engineer	Seoul, South Korea Jun. 2019 – Aug. 2019
	<ul style="list-style-type: none"> <li>▪ Develop log-based real-time OLAP service for Seven Knights mobile game.</li> </ul>	
HONORS AND AWARDS	<b>Best MLILAB Member for 2022 – 2023</b> , KAIST <b>Dongwon Scholarship (Full M.S.)</b> , KAIST <b>Magna Cum Laude</b> , College of Engineering, KAIST <b>Silver Prize</b> , Korean Undergraduate Mathematics Competition <b>Overseas Exchange Scholarship</b> , Mirae Asset <b>Representative of Student Exchange Ambassador</b> , KAIST <b>Honor Student</b> , College of Engineering, KAIST <b>Convergence AMP Scholarship</b> , KAIST <b>Winner</b> , Science Quiz, KAIST-POSTECH Science War <b>Participation Prize</b> , Urban Design Competition, CEE, KAIST <b>National Scholarship (Full B.S.)</b> , KAIST	Jul. 2023 2022 – 2023 Feb. 2022 Jan. 2022 Dec. 2019 Nov. 2019 Sep. 2019 Mar. 2019 Sep. 2018 Dec. 2017 2017 – 2021
SKILLS	<b>Programming Skills</b> Programming Languages: C/C++, Java, Python, SQL Libraries/Frameworks: PyTorch, TensorFlow  <b>Languages</b> Advanced in <b>English</b> and Native in <b>Korean</b>	