

Changhun Kim

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RESEARCH INTERESTS

Generalizable Deep Learning: Test-Time Adaptation, Meta-Learning, Zero-Shot Learning
Generative Models: Diffusion Models, Text-to-{Image, 3D, Speech} Generation
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

- Thesis: [Test-Time Adaptation for Automatic Speech Recognition via Sequential-Level Generalized Entropy Minimization](#)
- Advisor: [Eunho Yang](#)
- GPA: 4.25/4.3, 4.0/4.0, 99.5% (Department Salutatorian, Top 0.7% of all Departments)

B.S. in Computer Science and Mathematics (Double Major) Mar. 2017 – Feb. 2022

- Magna Cum Laude with Honors in Engineering
- GPA: 3.92/4.3, 3.81/4.0, 96.2% (Top 9% in the Department)

PUBLICATIONS

*: Equal Contribution

Stable-TTS: Stable Speaker-Adaptive Text-to-Speech Synthesis via Prosody Prompting under Limited Target Samples

Wooseok Han*, Minki Kang*, **Changhun Kim** and Eunho Yang
Under Review

CloudFixer: Test-Time Adaptation for 3D Point Clouds via Diffusion-Guided Geometric Transformation

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=15.2%

RESEARCH EXPERIENCE

Medical AI Division, AITRICS Seoul, South Korea
Machine Learning Researcher Nov. 2023 – Present

- Conduct research on large language model and test-time adaptation for biomedical signal analysis, with a particular emphasis on electronic health records, in collaboration with Prof. [Eunho Yang](#).

Machine Learning and Intelligence Laboratory, KAIST Daejeon, South Korea
Master's Student Mar. 2022 – Feb. 2024

- 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

- Investigate a style matching denoiser for automatic speech recognition under the supervision of Prof. [Eunho Yang](#).

Vehicular Intelligence Laboratory, KAIST Daejeon, South Korea
Research Intern Oct. 2019 – Aug. 2020

- 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](#).

WORK EXPERIENCE	MLOps Squad, DeepNatural AI	Seoul, South Korea
	Machine Learning Engineer Intern	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 Intern	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	
REFERENCES	Prof. Eunho Yang	
	Associate Professor, Graduate School of AI, KAIST	
	Email: eunhoy@kaist.ac.kr	
	Relationship: M.S. Advisor	