

Changhun Kim

☎ (+82) 10-3264-6509 ✉ chan9hun.k1m@gmail.com 🏠 <https://changhun.kim>

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

- 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

- 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**