

Minjae Lee

Graduate School of AI, KAIST
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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) <i>Graduate School of AI (GSAI)</i> Advisors: Edward Choi	Seongnam, Korea Sep. 2021 ~ Present
Korea Advanced Institute of Science and Technology (KAIST) <i>B.S in Industrial & Systems Engineering (ISysE); Minor in Economics</i> <i>Honors: summa cum laude (GPA 4.0/4.3)</i>	Daejeon, Korea Feb. 2021
Technical University of Berlin (Technische Universität Berlin, TUB) KAIST Outbound Exchange Program in Informatics (Informatik) <i>Honors: Mirae Asset Outbound Exchange Student Scholarship</i>	Berlin, Germany Apr. 2017 ~ Jul. 2017

Research Interest

Machine Learning for Healthcare, Natural Language Processing, Climate change, Society modeling, Civic engagement

Research Experience / Project

Document Intelligence Project: Administrative Process Automation Model, GSAI KAIST Generates synthetic EMR with cutting-edge diffusion generative model	Sep. 2022 ~ Present
EMR Synthesis with Diffusion Model, GSAI KAIST Generates synthetic EMR with cutting-edge diffusion generative model	Jul. 2022 ~ Present
EMR Compression & Decompression in a Scalable approach, GSAI KAIST Researches schema agnostic EMR reconstruction, prediction, and generation in a scalable way	Sep. 2021 ~ Present
EMR Text-Tabular Multimodal Learning with SNUH, GSAI KAIST Conducts research for AKI prediction, and synthesizing the patient data in cooperation with the SNUH (Seoul Natl. Univ. Hospital)	Sep. 2021 ~ Present

Work Experience

Internship, NAVER CLOVA Joined Efficient-AI team for quantization, compression, and optimization of Deep Learning model	Seongnam, Korea Dec. 2021 ~ Feb. 2022
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Other Experience

Lab Synchronization Seminar, GSAI KAIST Launched periodic seminar for sharing and discussing the research ideas	Daejeon, Korea Oct. 2022
Paper Review Seminar (EDLAB Tech-talk) for Diffusion models, GSAI KAIST Improved Denoising Diffusion Probabilistic Models (Nichol et al., 2021) Classifier-Free Diffusion Guidance (Ho et al., 2021) Structured Denoising Diffusion Models in Discrete State-Space (Ho et al., 2021)	Daejeon, Korea May. 2022 April. 2022 Sep. 2022
Launched for Diffusion models, GSAI KAIST Improved Denoising Diffusion Probabilistic Models (Nichol et al., 2021) Classifier-Free Diffusion Guidance (Ho et al., 2021) Structured Denoising Diffusion Models in Discrete State-Space (Ho et al., 2021)	Daejeon, Korea May. 2022 April. 2022 Sep. 2022

TA for ‘Programming for AI’, ‘Machine Learning for Healthcare’, GSAI KAIST

Directed practice session for Autoencoder, GAN, Diffusion Model

Daejeon, Korea

Sep. 2021 ~ Present

The Bureau of Social Participation, KAIST Undergraduate Student Council (USC)

Head

Daejeon, Korea

Jan. 2018 ~ Dec. 2018

Directed projects to ensure labor rights, learning rights, privacy of campus members and to form public forum in the campus.

Member

Sep. 2017 ~ Dec. 2017

Planned and implemented ‘KAIST Human Rights Week’ to make a campus where human rights are respected.

AWARDS AND HONORS

National Science and Technology Scholarship, Ministry of Science, Korea

2021 ~ Present

Graduation with honors: *summa cum laude*, KAIST

2021

Outbound Exchange Student Scholarship, Mirae Asset

2017

Scholarship for academic excellence (2nd place), KAIST

2016

National Science and Technology Scholarship (merit-based), Ministry of Science, Korea

2015 ~ 2016

Undergraduate School Fellowship, KAIST

2013 ~ 2016