

DAEYOUNG KIM

 [Google Scholar](#)

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RESEARCH INTERESTS

Multimodal AI, Reliable Machine Learning, Natural Language Processing

EDUCATION

Korea Advanced Institute of Science and Technology

March 2021 - Feb 2023

Master's Degree

- Master of Artificial Intelligence (Kim Jaechul Graduate School of AI)
- Advisor: Prof. Edward Choi
- GPA 3.98 / 4.3

Korea University

Mar 2015 - Feb 2021

Bachelor's Degree

- Bachelor of Science in Computer Science and Engineering
- Bachelor of Integrated Major in Information Security Convergence
- GPA 3.81 / 4.5

PUBLICATIONS

OffsetBias: Leveraging Debiased Data for Tuning Evaluators

Junsoo Park*, Seungyeon Jwa*, Meiyong Ren, **Daeyoung Kim**, and Sanghyuk Choi

In Findings in Empirical Methods in Natural Language Processing (EMNLP), 2024 [[pdf](#)] [[code](#)] [[dataset](#)] [[model](#)]

Towards the Practical Utility of Federated Learning in the Medical Domain

Seongjun Yang*, Hyeonji Hwang*, **Daeyoung Kim**, Radhika Dua, Jong-Yeup Kim, Eunho Yang, and Edward Choi

In Proc. of Conference on Health, Inference, and Learning (CHIL), 2023 [[pdf](#)] [[code](#)]

Revisiting the Importance of Amplifying Bias for Debiasing

Jungsoo Lee*, Jeonghoon Park*, **Daeyoung Kim***, Juyoung Lee, Edward Choi, and Jaegul Choo

In Proc. of Association for the Advancement of Artificial Intelligence (AAAI), 2023 (Oral Presentation) [[pdf](#)] [[code](#)]

Uncertainty-Aware Text-to-Program for Question Answering on Structured Electronic Health Records

Daeyoung Kim, Seongsu Bae, Seungho Kim, and Edward Choi

In Proc. of Conference on Health, Inference, and Learning (CHIL), 2022 [[pdf](#)] [[code](#)]

Question Answering for Complex Electronic Health Records Database using Unified Encoder-Decoder Architecture

Seongsu Bae, **Daeyoung Kim**, Jiho Kim, and Edward Choi

In Proc. of Machine Learning for Health (ML4H), 2021 (Oral Presentation) [[pdf](#)]

VARCO-VISION: Expanding Frontiers in Korean Vision-Language Models

Jeongho Ju*, **Daeyoung Kim***, SunYoung Park*, and Youngjune Kim

Technical Report, 2024 [[pdf](#)] [[model](#)]

Empowering Sentence Encoders with Prompting and Label Retrieval for Zero-shot Text Classification

Jimin Hong*, Jungsoo Park*, **Daeyoung Kim***, Seongjae Choi, Bokyung Son, and Jaewook Kang

Preprint, 2022 [[pdf](#)]

RESEARCH EXPERIENCES

Edlab, Korea Advanced Institute of Science and Technology
Master's Degree Researcher

Seongnam, South Korea
March 2021 - Feb 2023

- Led the development of an EHR question-answering system, progressing from a foundational encoder-decoder model to an advanced uncertainty-aware text-to-program model that improved reliability
- Proposed and validated a bias-amplification-and-removal approach to address the limitations of conventional debiasing methods
- Investigated the challenges and validated the practical utility of applying theoretical federated learning to real-world medical environments for secure data handling

Data Mining and Information Systems Lab, Korea University
Undergraduate Researcher

Seoul, South Korea
Mar 2020 - Jul 2020

- Researched and implemented Zero-shot Summarization techniques for COVID-19 academic papers

WORK EXPERIENCES

KT (Korea Telecom)
Research Engineer

Seoul, South Korea
Dec 2024 - Present

- Constructed synthetic document and instruction-tuning datasets for a Vision Language Model (VLM)
- Designed the core architecture and trained an omni-modal (image, text, speech) model

NCSOFT
Research Engineer

Seongnam, South Korea
Feb 2023 - Dec 2024

- Managed the full training pipeline for [VARCO-VISION](#), a Vision Language Model (VLM)
- Developed [VARCO-Text](#), an instruction-tuned model for an LLM-based writing assistant, and constructed datasets for text continuation and summarization tasks
- Performed alignment tuning for [VARCO LLM 2.0](#) with custom Korean datasets
- Designed and built [EvalBiasBench](#), a benchmark to identify and mitigate LLM-as-an-Evaluator biases

NAVER Corporation
Research Intern

Seongnam, South Korea
Jul 2022 - Jan 2023

- Developed and scaled an LLM-based sentence embedding model (137M to 7B parameters) using Contrastive Learning
 - Optimized the large-scale model training process through multi-GPU and multi-node configurations
- Developed a Zero-shot Text Classification method leveraging sentence encoders and retrieval-augmented prompts

NAVER Corporation
Research Intern

Seongnam, South Korea
Jul 2020 - Aug 2020

- Developed a sentiment and intent classification model for online comments with custom data augmentation

HONORS AND AWARDS

KAIST Support Scholarship

Recipient for Academic Excellence

Mar 2021 – Feb 2023

Graduation Project Competition at Korea University

3rd Place

Text Summarization of Biomedical paper related to COVID-19 [[demo](#)]

Jun 2020

- Employed Zero-shot Summarization techniques to generate summaries from biomedical papers on COVID-19

HeLP Challenge 2019 at Asan Medical Center

1st Place

Breast Cancer Classification on Frozen Pathology [[code](#)]

Apr 2020

- Developed a two-stage model to predict cancer metastasis and measure tumor length from frozen pathology slides

Kakao Arena

3rd Place

Article Recommendation Task [[code](#)]

Feb 2019

- Developed an article recommendation system for the 'Brunch' blogging platform

ACADEMIC SERVICE

- **Workshop Reviewer:** Learning from Time Series for Health@NeurIPS (2025)

LANGUAGE PROFICIENCY

Native **Korean**; Proficient in **English**

- iBT TOEFL: 106 (Reading: 30, Listening: 27, Speaking: 25, Writing: 24)