

Junu Kim

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My research focuses on long context modeling and healthcare AI. I study (1) reasoning in language models, (2) long context modeling, and (3) specialized large language models for clinical data.

Keywords: Long Context Modeling, ML4H, Clinical LLMs

PROFESSIONAL EXPERIENCE

Postdoc Researcher, KAIST (2026.09-)

Advisor: Edward Choi

Research Intern, Institute of Foundation Models (2026.04-2026.08)

Post-Training Team

Project: K2-Horizon

Manager: Haonan Li, Rupesh Srivastava

Research Intern, Microsoft Research Asia (2025.06-2025.12)

Artificial Intelligence & Reasoning Team

Project: [LayerNorm Induces Recency Bias in Transformer Decoders](#)

Mentor: Xiao Liu

EDUCATION

Ph. D in Artificial Intelligence (2022 - 2026.08)

Kim Jaechul Graduate School of AI, Korea Advanced Institute of Science and Technology (KAIST)

Advisor: Pf. [Edward Choi](#)

B.S. in Computer Science (2018-2022)

School of Computing, Korea Advanced Institute of Science and Technology (KAIST)

PUBLICATIONS

[1] [Enhancing LLMs' Clinical Reasoning with Real-World Data from a Nationwide Sepsis Registry](#)

Junu Kim, Chae-eun Shim, Sungjin Park, Su Yeon Lee, Gee Young Suh, Seong Jin Choi, Song Mi Moon, Kyoung-Ho Song, Eu Suk Kim, Hong Bin Kim, Sejoong Kim, Chami Im, Dong-Wan Kang, Yong Soo Kim, Hee-Joon Bae, Sung Yoon Lim*, Han-Gil Jeong*, Edward Choi*

Proceedings of the 11st Machine Learning for Healthcare Conference, PMLR 340, 2026.

[2] [LayerNorm Induces Recency Bias in Transformer Decoders](#)

Junu Kim, Xiao Liu, Zhenghao Lin, Lei Ji, Yeyun Gong, Edward Choi

Findings of the Association for Computational Linguistics: ACL 2026

[3] [Federated learning for heterogeneous electronic health record systems with cost effective participant selection](#)

Jiyoun Kim, **Junu Kim**, Kyunghoon Hur, Edward Choi

Scientific Reports, 2026

[4] [Towards Predicting Temporal Changes in a Patient's Chest X-ray Images based on Electronic Health Records](#)

Daeun Kyung, **Junu Kim**, Tackeun Kim, Edward Choi

Proceedings of the sixth Conference on Health, Inference, and Learning, PMLR 287:247-267, 2025

[5] [General-Purpose Retrieval-Enhanced Medical Prediction Model Using Near-Infinite History](#)

Junu Kim, Chaeun Shim, Bosco Seong Kyu Yang, Chami Im, Sung Yoon Lim, Han-Gil Jeong, Edward Choi

Proceedings of the 9th Machine Learning for Healthcare Conference, PMLR 252, 2024.

[6] [Publicly Shareable Clinical Large Language Model Built on Synthetic Clinical Notes](#)

Sunjun Kweon*, **Junu Kim***, Jiyoung Kim, Sujeong Im, Eunbyeol Cho, Seongsu Bae, Jungwoo Oh, Gyubok Lee, Jong Hak Moon, Seng Chan You, Seungjin Baek, Chang Hoon Han, Yoon Bin Jung, Yohan Jo, Edward Choi

Findings of the Association for Computational Linguistics: ACL 2024

[7] [GenHPF: General healthcare predictive framework for multi-task multi-source learning](#)

Kyunghoon Hur, Jungwoo Oh, **Junu Kim**, Jiyoung Kim, Min Jae Lee, Eunbyeol Cho, Seong-Eun Moon, Young-Hak Kim, Louis Atallah, Edward Choi

IEEE Journal of Biomedical and Health Informatics, 2023

PROJECTS & ABSTRACTS

[1] [CAMEL: Clinically Adapted Model Enhanced from LLaMA](#)

Sunjun Kweon*, **Junu Kim***, Seongsu Bae, Eunbyeol Cho, Sujeong Im, Jiyoung Kim, Gyubok Lee, JongHak Moon, JeongWoo Oh, Edward Choi

[2] [EHRFL: Federated Learning Framework for Heterogeneous EHRs and Precision-guided Selection of Participating Clients](#)

Jiyoung Kim, **Junu Kim**, Kyunghoon Hur, Edward Choi

ML4H 2024 Findings

[3] [Universal EHR federated learning framework](#)

Junu Kim, Kyunghoon Hur, Seongjun Yang, Edward Choi

ML4h 2022 Extended Abstract

MISC

Conference Reviewer

ICLR, ARR, CoLM, CHIL, ML4H, MLHC,...

Presidential Science Scholarship (2018-2022)

Prestigious scholarship awarded by the Korean government to students in science and engineering fields

Programming Skills

Python, C