Sunguk Jang (장성욱)

Medical AI Researcher at AITRICS
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Seoul, Republic of Korea

Education

KAIST	M.S. in AI (Kim Jaechul Graduate School of AI) Advised by Professor Juho Lee at SIML Lab, KAIST Thesis: "Decoupled Training for Long-Tailed Classification With Stochastic Representations"	Mar 2021 - Feb 2023
Korea University	B.S. in Computer Science and Engineering B.S. in Statistics (Double Major) National Scholarship for Science and Engineering (2 years)	Mar 2017 - Feb 2021

Research Interests

Research	My research focuses on developing robust and debiased AI systems for healthcare applications. I work on Long-tailed Learning, Spurious Correlations on EHR, and Domain Adaptation to create reliable medical AI models that can generalize across different healthcare institutions.

Publications

Decoupled Training for Long-Tailed Classification With Stochastic Representations
Sunguk Jang, [Co-authors]*
International Conference on Learning Representations (ICLR)
2023
Co-first author, led research design and implementation

SC-LnD: Super-Class Learning & Pseudo-Label Debiasing Framework for Improved Long-Tailed Semi-Supervised Learning
Sunguk Jang, [Co-authors]*
Under Review
2024

Co-first author, research design and leadership

(* denotes equal contribution)

Work Experience

Medical AI Researcher
AITRICS
Feb 2023 - Present

- Specialized Research Personnel (Military Service Alternative: Mar 2023 - Mar 2026)
- Developed Target Domain-optimized Source Data Selection Algorithm for Disease Early Prediction Models
- Improved Bidirectional LSTM model performance across multiple hospitals with enhanced AUROC, AUPRC, F1-score, and PPV metrics
- Led Domain Adaptation research for EHR data, focusing on spurious correlation mitigation
- Contributed to flagship product using Vital Signs and Lab test data for disease prediction

Undergraduate Research Assistant
MLV Lab, Korea University
Mar 2020 - Dec 2020

- Advised by Professor Hyunwoo Kim at MLV Lab, Korea University

Honors & Awards

National Scholarship for Science and Engineering
Korea Student Aid Foundation
Full scholarship for 2 years during undergraduate studies

SW Maestro 11th Generation
Ministry of Science and ICT
Selected as SW Maestro training program participant

Academic Services

Reviewer of CVPR
IEEE/CVF Conference on Computer Vision and Pattern Recognition
2025

Skills

Language	- Korean (native) - English (professional working proficiency)
Programming Skills	- Python, PyTorch, Git (Most proficient) - Docker, MLFlow, Gemini-CLI, Cursor (Experienced)
Research Areas	- Debiasing, Robustness, Healthcare AI - Long-tailed Learning, Spurious Correlations on EHR, Domain Adaptation on EHR

Last Updated: Jan 15, 2025