

# Sunguk Jang (장성욱)

## AI Researcher

Medical AI Researcher at AITRICS

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GitHub: github.com/aitrics-tom | Website: aitricks-tom.github.io

Seoul, South Korea

## EDUCATION

### Master of Science in AI

Korea Advanced Institute of Science and Technology (KAIST) 2021.03 - 2023.02

Kim Jaechul Graduate School of AI | Advisor: Prof. Juho Lee (SIML Lab)

Thesis: "Decoupled Training for Long-Tailed Classification With Stochastic Representations"

### Bachelor of Science in Computer Science and Engineering

Korea University 2017.03 - 2021.02

Double Major: Statistics | National Scholarship for Science and Engineering (2 years)

## PROFESSIONAL EXPERIENCE

### Medical AI Researcher

AITRICS 2023.02 - Present

Specialized Research Personnel (Military Service Alternative: 2023.03-2026.03)

- 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

Korea University MLV Lab 2020.03 - 2020.12

Advisor: Prof. Hyunwoo Kim

## RESEARCH INTERESTS

**Primary:** Debiasing, Robustness, Healthcare AI  
**Specific Focus:** Long-tailed Learning, Spurious Correlations on EHR, Domain Adaptation on EHR

PUBLICATIONS

**Decoupled Training for Long-Tailed Classification With Stochastic Representations**  
*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**  
*Under Review*

2024  
Co-first author, research design and leadership

TECHNICAL SKILLS

Programming Languages

Python (Intermediate)

Machine Learning & Deep Learning

PyTorch, Long-tailed Learning, Domain Adaptation, Debiasing, Healthcare AI

Tools & Platforms

Git, Docker, MLFlow, Gemini-CLI, Cursor

Research Areas

Spurious Correlations on EHR, Robustness, Medical AI

AWARDS & HONORS

**National Scholarship for Science and Engineering**  
*Ministry of Science and ICT*  
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 SERVICE

CVPR 2025 - Reviewer (2024 - Present)

LANGUAGES

**Korean:** Native | **English:** Professional Working Proficiency