
Sibeen Kim

✉ bioceo78@kaist.ac.kr | 🏠 <https://sibisibi.github.io> | 🌐 <https://github.com/sibisibi>

RESEARCH GOAL

My research goal is to develop medical technologies such as AI-powered prosthetic limbs. By creating revenue-generating human augmentation technologies, I aim to provide affordable solutions for individuals with disabilities. To achieve this mission, I will focus on AI applications and collaborate with interdisciplinary teams.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Mar 2025 -
M.S./Ph.D. in Artificial Intelligence (Advisor: Jaegul Choo)

Korea University Mar 2018 - Feb 2025
B.S. in Biomedical Engineering, GPA: 4.00 / 4.5
*Frequent leave of absence for hospitalization and surgery Jan 2018 - Oct 2021

Gyeonggi Science High School Mar 2015 - Feb 2018
School for Gifted Students in Science

JOURNAL PAPERS

[J1] **S. Kim***, I. Kim*, W.T. Yuh*, S. Han, C. Kim, Y.S. Ko, W. Cho, S.B. Park. Augmented prediction of vertebral collapse after osteoporotic vertebral compression fractures through parameter-efficient fine-tuning of biomedical foundation models. *Scientific Reports* **14**, 31820 (2024). (*co-first authors)

RESEARCH EXPERIENCE

Letsur Jan 2024 - Present
Research Intern (Mentor: Wonwoo Cho)

KAIST AI Jan 2024 - Mar 2024
Data and Visual Analytics (DAVIAN) Lab
Basic Study

Sungkyunkwan University Feb 2016 - Aug 2017
B-ICT Lab
Research Intern (Advisor: Joungwhan Mun, Ahnryul Choi)
Graduation Thesis, Influence of Abnormal Foot Progression Angle on Adolescent Knee.

COURSEWORK

CS 285: Deep Reinforcement Learning (UC Berkeley, MOOC) Jan 2025

- Homework 1: Imitation Learning
- Homework 2: Policy Gradients
- Homework 3: Q-learning and Actor-Critic Algorithms
- Homework 4: Model-Based Reinforcement Learning
- Homework 5: Exploration and Offline Reinforcement Learning

BMED436: Medical Robot (Korea University) Sep 2024 - Dec 2024

- Forward Kinematics
- Inverse Kinematics
- Velocity Kinematics
- Manipulator Dynamics
- Dynamic Analysis
- Feedback Control

CS 182: Deep Learning (UC Berkeley, MOOC) Jan 2024 - Mar 2024

-
- Homework 1: Neural Networks & Backprop.
 - Homework 2: RNNs & Conv Nets.
 - Homework 3: Natural Language Processing.

INVITED TALKS

OVF Collapse Prediction: Model Architecture and Hyperparameters

5th Conference on Digital Convergence Research, Korean Neurosurgical Society

Jun 15, 2024

SKILLS

English

- **TOEIC 975/990** (Valid until 2025/07/09)

Algorithm

- **Passed** 2022 Kakao Blind Recruitment Algorithm Code Test