Sibeen Kim

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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

[**J4**] Park, Y.W., Jang, G., **Kim, S.B.** et al. Leptomeningeal metastases at recurrence in IDH-wildtype glioblastomas: incidence, risk factors, and prognosis based on postcontrast FLAIR imaging. *European Radiology* (2025).

[**J3**] **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)

[**J2**] Y.W. Park, G. Jang, **S.B. Kim**, K. Choi, K. Han, N. Shin, S.S. Ahn, J.H. Chang, S.H. Kim, S. Lee, R. Jain. Leptomeningeal metastases in isocitrate dehydrogenase-wildtype glioblastomas revisited: Comprehensive analysis of incidence, risk factors, and prognosis based on post-contrast fluid-attenuated inversion recovery. *Neuro-Oncology*, 2024.

[**J1**] C. Park*, S. Choi*, D. Kim, **S. Kim**, K. Han, S. Ahn, W. Lee, E. Choi, K. Keum, J. Kim. MRI radiomics may predict early tumor recurrence in patients with sinonasal squamous cell carcinoma. *European Radiology* **34**, 3151–3159 (2024). (*co-first authors)

WORK EXPERIENCE

Severance Hospital Apr 2023 - Feb 2025
Laboratory of Advanced Neuroimaging Biomarker Research (LANIB)
Research Intern (Advisor: Sungsoo Ahn, Yaewon Park)

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: Jounghwan 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