
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 University B.S. in Biomedical Engineering, GPA: 3.91 / 4.5 *Frequent leave of absence for hospitalization and surgery	Mar 2018 - Feb 2025 Jan 2018 - Oct 2021
Gyeonggi Science High School School for Gifted Students in Science	Mar 2015 - Feb 2018

JOURNAL PAPERS

- [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. Submitted to *Scientific Reports*, 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

Letsur Research Intern (Mentor: Wonwoo Cho)	Jan 2024 - Present
Severance Hospital Laboratory of Advanced Neuroimaging Biomarker Research (LANIB) Research Intern (Advisor: Sungsoo Ahn, Yaewon Park)	Apr 2023 - Present

RESEARCH EXPERIENCE

Korea University Brain Reverse Engineering by Intelligent Neuroimaging (BREIN) Lab Capstone Design Student (Advisor: Joonkyung Seong)	Mar 2024 - Present
KAIST AI Data and Visual Analytics (DAVIAN) Lab Basic Study <ul style="list-style-type: none">Linear Algebra, CS229-Machine Learning, CS182-Deep LearningCS182-HW1, CS182-HW2, CS182-HW32nd place in exam	Jan 2024 - Mar 2024
Sungkyunkwan University B-ICT Lab Research Intern (Advisor: Jounghwan Mun, Ahnryul Choi)	Feb 2016 - Aug 2017

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- Graduation Thesis: “Influence of Abnormal Foot Progression Angle on Adolescent Knee”

PROJECTS

Comparative Analysis of SVMs and MLPs # SVM # MLP # CIFAR-10 # Hyperparameter tuning	Apr 2024
EHR Synthesis in OMOP CDM Using Diffusion Models # EHR # OMOP CDM # Diffusion model # Synthetic data	Mar 2024 - Jun 2024
FL-PoS # Federated Learning # Segmentation # Glioblastoma	Dec 2023 - Present
Neuro-QAI: Adaptive Learning in Noisy Label Environments # Q-Learning # Neuroimmune System # Noisy label	Dec 2023
Optimizing Training Procedures for Brain Tumor Segmentation # nnUNet # BraTS18 # Gaussian KDE # Optimal Cropping	Dec 2023
Comparative Study of IDH-Wildtype and IDH-Mutant Gliomas # Segmentation # IDH status # Low ADC Peak # Subventricular Zone (SVZ)	Sep 2023 - Oct 2023

INVITED TALKS

OVF Collapse Prediction: Model Architecture and Hyperparameters 5th Conference on Digital Convergence Research, Korean Neurosurgical Society	Jun 15, 2024
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SKILLS

English

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

Algorithm

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