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# Sibeen Kim

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## RESEARCH INTERESTS

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Deep Reinforcement Learning

## EDUCATION

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<b>Korea University</b> 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
<b>Gyeonggi Science High School</b> School for Gifted Students in Science	Mar 2015 - Feb 2018

## JOURNAL PAPERS

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- [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

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

## RESEARCH EXPERIENCE

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<b>Korea University</b> Brain Reverse Engineering by Intelligent Neuroimaging (BREIN) Lab <i>Capstone Design Student</i> (Advisor: Joonkyung Seong)	Mar 2024 - Present
<b>KAIST AI</b> Data and Visual Analytics (DAVIAN) Lab <i>Basic Study</i> <ul style="list-style-type: none"><li>Linear Algebra, CS229-Machine Learning, CS182-Deep Learning</li><li>CS182-HW1, CS182-HW2, CS182-HW3</li><li><b>2nd place</b> in exam</li></ul>	Jan 2024 - Mar 2024
<b>Sungkyunkwan University</b> B-ICT Lab <i>Research Intern</i> (Advisor: Jounghwan Mun, Ahnryul Choi) <ul style="list-style-type: none"><li>Graduation Thesis: “Influence of Abnormal Foot Progression Angle on Adolescent Knee”</li></ul>	Feb 2016 - Aug 2017

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## PROJECTS

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

## INVITED TALKS

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

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### English

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

### Algorithm

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