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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: 3.70 / 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] **Sibeen Kim\***, Inkyum Kim\*, Sangmin Han, Chunghyo Kim, Wuntak Yeo, Yongsan Ko, Yeonhwa Lee, Wonwoo Cho, Sung Bae Park. "Towards accurate prediction of vertebral collapse after osteoporotic vertebral compression fracture via deep neural network and biomedical vision-language foundation models with multimodal dataset", *In Preparation*, 2024
- [J2] Yaewon Park, Geon Jang, **Sibeen Kim**, Kyunghwa Han, Nayoung Shin, Sungsoo Ahn, Jonghee Chang, Sehoon Kim, Rajan Jain, Seungkoo Lee. "Leptomeningeal Metastases in IDH-wildtype Glioblastomas Revisited: Comprehensive Analysis of Incidence, Risk Factors, and Prognosis Based on Postcontrast FLAIR Imaging", *In Submission to Neuro-Oncology*, 2024
- [J1] Chaejung Park\*, Seohee Choi\*, Dain Kim, **Sibeen Kim**, Kyunghwa Han, Sungsoo Ahn, Wonhee Lee, Eun-chang Choi, Kichang Keum\*, Jinna Kim\*. "MRI radiomics may predict early tumor recurrence in patients with sinonasal squamous cell carcinoma", *European Radiology*, 2023

## 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)	Feb 2016 - Aug 2017

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

## PROJECTS

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**GT-OMOP: Adapting Graph Transformers for OMOP-CDM** Mar 2024 - Present  
# EHR # Graph Transformer # OMOP-CDM # Foundation Model

**FL-PoST** Dec 2023 - Present  
# Federated Learning # Segmentation # Glioblastoma

**Neuro-QAI: Adaptive Learning in Noisy Label Environments** Dec 2023  
# Q-Learning # Neuroimmune System # Noisy label

**Optimizing Training Procedures for UNet-Based Brain Tumor Segmentation** Dec 2023  
# nnUNet # BraTS18 # Gaussian KDE # Optimal Cropping

**Comparative Study of IDH-Wildtype and IDH-Mutant Gliomas** Sep 2023 - Oct 2023  
# Segmentation # IDH status # Low ADC Peak # Subventricular Zone (SVZ)

## INVITED TALKS

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

## SKILLS

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### English

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

### Algorithm

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