

# Sungjae Lee

leeesi@postech.ac.kr | (+82) 10.5730.9607 | <https://ubless607.github.io/aboutme>

## RESEARCH INTERESTS

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Robotic object manipulation, explainable AI, and medical AI, but not limited to.

## EDUCATION

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Pohang University of Science and Technology

Mar. 2024 –

- M.S. in artificial intelligence.

Gachon University

Mar. 2018 – Feb. 2024

- B.S. in biomedical engineering.
- GPA: 4.44 / 4.5 (*Summa Cum Laude*), Full-ride scholarship during B.S degree.

## WORK EXPERIENCES

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MMMIL (Multi-Modality Medical Imaging Lab) | Research student

Apr. 2021 – Dec. 2023

- Tongue cancer classification.
- Image reconstruction from positron emission tomography (PET) sinogram data.
- Also worked on malocclusion classification and brain vessel segmentation from MR angiography.

Neurophet AI Team | Research intern

Aug. – Dec. 2023

- Developing a deep-learning model for cerebral microbleed segmentation.

Republic of Korea Army | Sergeant

Sep. 2019 – Mar. 2021

- Military service mandatory for male citizens of Republic of Korea.

## PUBLICATIONS

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[1] **Lee, S.J.**, Oh, H.J., Son, YD. *et al.* Enhancing deep learning classification performance of tongue lesions in imbalanced data: mosaic-based soft labeling with curriculum learning. BMC Oral Health, 2024.

[2] **SungJae Lee**, YongKi Hong, TaeJin Kim, HangKeun Kim, KyungSang Kim, Young-Don Son, "Efficient image reconstruction from the projection domain via sinogram-to-image transform layer", IEEE Nuclear Science Symposium, Medical Imaging Conference and Room Temperature Semiconductor Detector Conference, 2022, poster (*on-site presentation*).

## EXTRA

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Conference reviewer

- AAAI'25