Woojin Chung

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EDUCATION

Hankuk University of Foreign Studies Yongin-si, S.Korea
M.S. In Department of Biomedical Engineering Mar. 2024 – Present
• Total GPA of 4.5/4.5 (4.0/4.0)

Hankuk University of Foreign Studies Yongin-si, S.Korea
B.S. In Division of Biomedical Engineering Mar. 2017 – Feb. 2024
• Total GPA of 3.9/4.5 (3.71/4.0)
• LIKELION Student-Run Club of Web Programming (2021–2023)

RESEARCH EXPERIENCE

HUFS AIMLAB
Graduate Research Assistant Mar. 2024 – Present
Advisor: Yoonho Nam
• Investigating foundation models in computational pathology to enhance performance on out-of-distribution data in early gastric cancer WSIs.
• Research on image synthesis using deep learning with contrast-enhanced images: Multiphase CTA for acute ischemic stroke and dynamic contrast-enhanced MRI for breast imaging.

UnderGraduate Research Assistant Jan. 2022 – Mar. 2024
Advisor: Yoonho Nam
• Analyzing cerebral oxygen metabolism through quantitative susceptibility mapping using deep learning.
• Synthesizing contrast-enhanced images at delayed time points in inner ear MRI using deep learning.

PUBLICATIONS

• Woojin Chung, Yujun Park, Yoonho Nam. "AutoEncoder-Based Feature Transformation with Multiple Foundation Models in Computational Pathology" in International Workshop on Foundation Models for General Medical AI, September 28, 2024.
• Woojin Chung, Jinhee Jang, Yoonho Nam. "Quantitative Susceptibility Mapping of Oxygen Metabolism: A Feasibility Study Utilizing a Large-Scale Clinical Dataset" in Korean Society of Magnetic Resonance in Medicine, October 31, 2023.

CONFERENCE PRESENTATIONS

• **ISMRM 2025 Oral Presentation**
Predicting Delayed Phase Contrast-Enhanced MR Images from Early Phase Contrast-Enhanced MR Images Using Deep Learning-Based Iterative Network.
• **MICCAI 2024 Workshop MedAGI Poster Presentation**
AutoEncoder-Based Feature Transformation with Multiple Foundation Models in Computational Pathology.
• **ICMRI 2024 Poster Presentation**
Deep Learning-Based Dynamic Information Embedding for Synthesizing Arbitrary Time-Point Contrast-Enhanced Inner Ear MR Images.
• **ICMRI 2023 Poster Presentation**
Automatic optimization of Multi-Loss Weights for MR image synthesis using Coefficient of Variation Analysis.
• **ICMRI 2022 Poster Presentation**
Automatic segmentation and assessment method for QSM-based oxygen metabolism analysis in the superior sagittal sinus.

TEACHING EXPERIENCE

PROGRAMMING INSTRUCTOR

- Instructor for Coding Class at Pungsaeng High School, a Science-Focused School in Seongnam-si, S.Korea
- Instructor for Shell & Shell Editors at Basic Software Education Camp (HUFS Missing Semester), Hankuk University of Foreign Studies

TEACHING ASSISTANT

- Linear Algebra, Fall 2024
- AI in Biomedical Engineering, Spring 2024
- Medical Image Processing and Practicum, Fall 2023
- AI in Biomedical Engineering, Spring 2023

HONORS AND AWARDS

- Best Prize, 2022 Artificial Intelligence Idea Festival, Hankuk University of Foreign Studies AI Education Center, November 2022.
- 3rd Place, Burn Diagnosis AI Challenge, Seoul National University Research & Development Business Foundation, November 2022.