Woojin Chung

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EDUCATION

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

Hankuk University of Foreign Studies   Yongin, Korea
B.S. In Division of Biomedical Engineering   Mar. 2017 – Feb. 2024
- Total GPA of 3.9/4.5 (3.71/4.0)
- Including 20 months of military service in the Republic of Korea Army

RESEARCH EXPERIENCE

HUFS AIMLAB
Graduate Research Assistant   Mar. 2024 – Present
Advisor: Yoonho Nam
- Integrating information from foundation models in computational pathology to improve performance on out-of-distribution datasets in early gastric cancer WSIs
- Synthesizing contrast-enhanced images using deep learning in two fields: Multiphase CT angiography for acute ischemic stroke and Dynamic contrast-enhanced MRI for breast imaging

UnderGraduate Research Assistant   Jan. 2022 – Mar. 2024
Advisor: Yoonho Nam
- Analyzed oxygen metabolism in the superior sagittal sinus on QSM images
- Synthesized delayed-phase contrast-enhanced images in inner ear MRI using a generative adversarial network

PUBLICATIONS

- W. Chung, Y. Park, Y. Nam. "AutoEncoder-Based Feature Transformation with Multiple Foundation Models in Computational Pathology" in International Workshop on Foundation Models for General Medical AI, Sep. 28, 2024
- W. Chung, J. Jang, Y. Nam. "Quantitative Susceptibility Mapping of Oxygen Metabolism: A Feasibility Study Utilizing a Large-Scale Clinical Dataset" in Korean Society of Magnetic Resonance in Medicine, Oct. 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

HONORS AND AWARDS

- Best Award, 2022 AI Idea Festival, Hankuk University of Foreign Studies AI Education Institute, Nov. 2022
- 3rd Place, Burn Diagnosis AI Challenge, Seoul National University Research & Development Business Foundation, Nov. 2022

TEACHING EXPERIENCE

PROGRAMMING INSTRUCTOR

- Instructor for Coding Class at Pungsaeng High School, a Science-Focused School in Seongnam city, Republic of Korea, Mar. 2022 – Dec. 2022
- Instructor for Shell & Shell Editors at the Basic Software Education Camp - HUFS Missing Semester, Hankuk University of Foreign Studies, Feb. 2022

TEACHING ASSISTANT

- Linear Algebra, Fall 2024
- Biomedical Artificial Intelligence, Spring 2024
- Medical Image Processing & Laboratory, Fall 2023
- Biomedical Artificial Intelligence, Spring 2023

OTHER EXPERIENCE

- AI Engineer at NUSEUM-Lab, a health consultancy in Seoul, Oct. 2022 – Dec. 2022
- Teaching Mentor at LIKELION, Student-Run Club of Web Programming, Mar. 2022 – Dec. 2023