

Yechan Hwang

+82-10-2343-7339 (KOR) ✉ yechan99@postech.ac.kr 🏠 yechan99.github.io

Education

Pohang University of Science and Technology (POSTECH), Pohang, South Korea Sep. 2022 - present
M.S.-Ph.D. integrated, Computer Science and Engineering

- Medical Information Processing Lab
- Adviser: Won Hwa Kim, Ph.D.

Pohang University of Science and Technology (POSTECH), Pohang, South Korea Mar. 2018 - Aug. 2022
B.S., Computer Science and Engineering

Research Interests

- Graph Machine Learning
- Medical Imaging
- Computer Vision

Publications

International Publication

1. Minjae Jeong*, **Yechan Hwang***, Jaejin Lee, Sungyoon Jung, Won Hwa Kim, "HGM³: Hierarchical Generative Masked Motion Modeling with Hard Token Mining", *International Conference on Learning Representations (ICLR)*, 2025. [*: equal contribution]
2. **Yechan Hwang**, Soojin Hwang, Guorong Wu, Won Hwa Kim, "Multi-order Simplex-based Graph Neural Network for Brain Network Analysis", *Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2024.
3. Joonhyuk Park*, **Yechan Hwang***, Minjeong Kim, Moo K. Chung, Guorong Wu, Won Hwa Kim, "Brain Connectome Analysis for Alzheimer's Disease using Hodge Laplacian-based Edge Convolution", *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, 2024. [*: equal contribution]
4. Joonhyuk Park*, **Yechan Hwang***, Minjeong Kim, Moo K. Chung, Guorong Wu, Won Hwa Kim, "Convolving Directed Graph Edges via Hodge Laplacian for Brain Network Analysis", *Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023. [Early accepted: 14%, *: equal contribution]
5. Ellen Jieun Oh, **Yechan Hwang**, Yubin Han, Taegeun Choi, Geunyoung Lee, Won Hwa Kim, "REStoring Clarity: Unpaired Retina Image Enhancement using Scattering Transform", *Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.

Domestic Publication

1. Hyuna Cho, Injun Choi, **Yechan Hwang**, Suha Kwak, Won Hwa Kim, "Interactive Network Perturbation for Semi-Supervised Semantic Segmentation", *Workshop on Image Processing and Image Understanding (IPIU)*, 2023. [Oral Presentation; Awarded a silver prize at IPIU best paper contest]

Honors and Awards

- POSTECH CSE Global Leadership Program 2019, 2020
- Merit-Based Scholarship, POSTECH 2018-2021

Teaching Experience

Teaching Assistant, Computer Science and Engineering, POSTECH, South Korea
• CSED273: Digital System Design Mar. 2023 - Jun. 2023