Yechan Hwang

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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, "HGM^3: 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