

Woojung Han

Ph.D. Candidate @ MICV Lab, YONSEI

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🎓 [Google Scholar](#) ✍ [Blog](#) 🔄 [GitHub](#) [LinkedIn](#) ✖ [X/Twitter](#)

Education

Dept. of Computer Science [Yonsei University](#) **Seoul, Korea** 2022-Present

Relevant Courses: Advanced image processing, Medical image analysis, Deep learning for natural language processing, Generative model and data synthesis, Machine learning and pattern recognition.

Dept. of Human Intelligence and Information Engineering [Sangmyung University](#) **Seoul, Korea** 2017-2022

Relevant Courses: C Programming, Python, Data Structure, Linear Algebra, Discrete Mathematics, Probability and Statistics, Algorithm, Big Data Analysis, Machine Vision Programming, Bio System, Open API Programming.

Conference (* Equal contribution)

1. Spatial Transport Optimization by Repositioning Attention Map for Training-Free Text-to-Image Synthesis, **Woojung Han**, Yeonkyung Lee, Chanyoung Kim, Kwanghyun Park, Seong Jae Hwang, [CVPR 2025](#).

2. Distilling Spectral Graph for Object-Context Aware Open-Vocabulary Semantic Segmentation, Chanyoung Kim, Dayun Ju, **Woojung Han**, Ming-Hsuan Yang, Seong Jae Hwang, [CVPR 2025](#). ([paper](#))

3. EAGLE: Eigen Aggregation Learning for Object-Centric Unsupervised Semantic Segmentation, Chanyoung Kim*, **Woojung Han***, Dayun Ju, Seong Jae Hwang, [CVPR 2024](#). (**HIGHLIGHT**, top **2.8%** of submitted papers.) ([paper](#))([project page](#))

4. Advancing Text-Driven Chest X-Ray Generation with Policy-Based Reinforcement Learning, **Woojung Han***, Chanyoung Kim*, Dayun Ju, Seong Jae Hwang, [MICCAI 2024](#). (**EARLY ACCEPT & SPOTLIGHT**, top **3.4%** of submitted papers.) ([paper](#))([project page](#))

5. Effect of Time Window Size for Converting Frequency Domain in Real-Time Remote Photoplethysmography Extraction, Yu Jin Shin, **Woojung Han**, Kun Ha Suh & Eui Chul, [IHCI 2021](#). ([paper](#))

Journal

1. CoBra: Complementary Branch Fusing Class and Semantic Knowledge for Robust Weakly Supervised Semantic Segmentation, **Woojung Han**, Seil Kang, Seil Kang, Kyobin Choo, Seong Jae Hwang, [Pattern Recognition](#) [Impact Factor: 7.5], 2024. ([elsevier](#)) ([paper](#))([project page](#))

Workshop Publications (* Equal contribution)

1. EAGLE: Eigen Aggregation Learning for Object-Centric Unsupervised Semantic Segmentation, Chanyoung Kim*, **Woojung Han***, Dayun Ju, Seong Jae Hwang, [CVPRW 2024](#). *Casual and Object-Centric Representations for Robotics*

Professional Experience

M.S./Ph.D Student, ([Medical Imaging and Computer Vision Lab](#)) **Yonsei University, Korea** 03/2022 - present

- Weakly Supervised Semantic Segmentation (WSSS).
- Unsupervised Semantic Segmentation (USS).
- Diffusion Models for Medical Imaging.

Bootcamp, ([Google Developer](#)) **Seoul, Korea** 06/2022 - 09/2022

Google Machine Learning Bootcamp 2022.

Intern, ([Algorithm Machine Intelligence Lab](#)) **POSTECH, Korea** 06/2021 - 08/2021

- Efficient human behavior understanding.
- Human mesh Recovery.

Intern, ([Korea University Computer Vision Lab](#)) **Korea University, Korea** 03/2021 - 06/2021

- Hand Grasp Type Estimation.

Intern, ([Pattern Recognition Lab](#)) **Sangmyung University, Korea** 09/2018 - 11/2020

- Real-time Remote photoplethysmography extraction.

Professional Services

Conference Reviewer.....	
BMVC <i>British Machine Vision Conference</i>	2024
WACV <i>IEEE/CVF Winter Conference on Applications of Computer Vision</i>	2024

Honors & Awards

- Lip Reading (2nd Prize) (Dec. 2021) - [Graduation Project](#)
- Medical Segmentation (3rd Prize) (Dec. 2021) - [MAIC Surgical Instruments Segmentation](#)
- Health Care Body Position (3rd Prize) (Feb. 2021) - [Korea SW Central University Hackton](#)
- Music Recommendation (4rd Prize) (Dec. 2020) - [SM AI Competition](#)
- Image Inpainting (2nd Prize) (Dec. 2020) - [SM AI Competition](#)

Certifications

- Tensorflow Developer Certificate (July. 2022) - [Tensorflow](#)
- YONSEI Medical Scientist Training Program (July. 2023) - [Yonsei University](#)
- Summer Program in University of Southern California (Aug. 2023) - [USC](#)

Teaching Experience

Teacher [Samsung](#)

DX training, AI Project.

Teacher [Samsung](#)

AI, DX, Perceptron, AI Project.

Coach [NAVER+MOBULABS](#)

Basic of AI, AI Team Project Coach.

Coach [NAVER+MOBULABS](#)

Basic of AI, AI Team Project Coach.

Coach [NAVER+MOBULABS](#)

Basic of AI, AI Team Project Coach.

Coach [KT AIVLE](#)

Basic of AI, Machine Learning, Deep Learning.

Coach [LG Academy AI Camp](#)

Classification, RNN, Text Classification, Segmentation.

Outsourcing

- FaceSwap

Skills

- **Python**, Pytorch, Keras, Tensorflow.
- C, C++, Java, MATLAB.