

Jungwoo Park

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Education

Seoul National University (SNU) B.S. in Electrical and Computer Engineering	Mar 2020 – Feb 2027 (expected) <i>Seoul, South Korea</i>
○ GPA: 4.04/4.3 (Cumulative), 4.09/4.3 (Major) ○ Leave of absence for military service in Republic of Korea Air Force: Apr 2022 – Jan 2024 (2 years) ○ Coursework: Deep Learning, Reinforcement Learning, Bayesian Statistics, Measure Theory and Probability	

Gyeonggi Science High School for the Gifted (GSHS) High school for gifted students in mathematics and science	Mar 2017 – Feb 2020 <i>Suwon, South Korea</i>
○ GPA: 4.11/4.3 (Cumulative)	

Publications

(* denotes equal contribution)

- Peter Yongho Kim*, Juhyeon Park*, **Jungwoo Park***, Jubin Choi, Jungwoo Seo, Jiook Cha, Taesup Moon.
Efficient Modeling of Long-range fMRI Dynamics with a 2D Natural Image Autoencoder.
CVPR 2026 (Under Review)
- Juhyeon Park*, Peter Yongho Kim*, **Jungwoo Park***, Jubin Choi, Jungwoo Seo, Jiook Cha, Taesup Moon.
Processing fMRI Brain Signals Using Latents from Natural Image Autoencoders.
NeurIPS 2025 Workshop BrainBodyFM (Spotlight Talk)

Research Experience

M.I.N.D Lab @ SNU (Advisor: Taesup Moon) Undergraduate Research Intern	Jul 2024 – Present <i>Seoul, South Korea</i>
○ Developed a novel tokenization method for fMRI data by leveraging a pre-trained 2D natural image autoencoder to compress high-dimensional 3D brain volumes into compact latent tokens. ○ Trained and validated a Transformer encoder based model processing on fMRI token sequences across large fMRI datasets (UKB, HCP, ADHD-200). ○ Achieved state-of-the-art performance in both clinical prediction tasks and computational efficiency.	

Scholarships

SNU Semiconductor-Specialized University Scholarship SNU Semiconductor-Specialized University (SNU SSU)	Sep 2024 – Feb 2027
○ Selective scholarship for academic achievement, publication grants and global scholarship support ○ Awarded \$700 USD for academic achievement ○ Provided NVIDIA L40S and NVIDIA RTX A6000 GPUs for deep learning research	
Presidential Science Scholarship Korea Student Aid Foundation (KOSAF)	Mar 2024 – Feb 2026
○ Full tuition (\$2,000 USD / semester) and living expenses (\$1,700 USD / semester) support for undergraduate studies	
Merit-based Scholarship Dept. of ECE, SNU	Sep 2021 – Feb 2022

Poster Presentations

Juhyeon Park*, Peter Yongho Kim*, **Jungwoo Park***, Jubin Choi, Jungwoo Seo, Jiook Cha, Taesup Moon.

Processing fMRI Brain Signals Using Latents from Natural Image Autoencoders.

IEEE/IEIE International Conference on Consumer Electronics (ICCE) Asia 2025

Busan, South Korea

- Research scholarship (\$400 USD) granted by SNU SSU scholarship

Jungwoo Park, Junggyu Bae, Ingyu Woo, Se Young Chun.

Leveraging Denoising Models for Bad Pixel Correction on Bayer and Quad Bayer RAW Images.

MIT Undergraduate Research Technology Conference (URTC) 2025 (acceptance rate $\approx 24\%$)

Cambridge, MA

- Airfare and accommodation supported by SNU SSU scholarship

Awards

2023 SNU Dental Hospital Healthcare AI Competition

Dec 2023

Grand Prize

SNU Dental Hospital

- Developed a high accuracy Xception based classification model for dental cavities using synthetic oral images.

2023 Military AI Competition (MAICON)

Dec 2023

Fourth Place

Ministry of National Defense

- Trained deepfake video classification models.

2023 Air Force Hackathon

Nov 2023

Fourth Place

Republic of Korea Air Force

- Implemented instance segmentation on missile firing images from Pilsung Range.

- Applied image classification on Range-Doppler maps for military targets.

2021 Introduction to Circuit Theory and Laboratory Project

Jun 2021

Grand Prize

Dept. of ECE, SNU

- Designed and implemented an audio equalizer on a printed circuit board (PCB).

Skills

Programming: Python, PyTorch, MATLAB

Languages: English: Proficient (TOEFL 110), Korean: Native