

# Jungwoo Park

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## Education

<b>Seoul National University (SNU)</b> 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	

<b>Gyeonggi Science High School for the Gifted (GSHS)</b> 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

<b>M.I.N.D Lab @ SNU (Advisor: Taesup Moon)</b> 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

<b>SNU Semiconductor-Specialized University Scholarship</b> 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	
<b>Presidential Science Scholarship</b> 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	
<b>Merit-based Scholarship</b> Dept. of ECE, SNU	Sep 2021 – Feb 2022

## Poster Presentations

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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

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### 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

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**Programming:** Python, PyTorch, MATLAB

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