

# Jungwoo Park

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## Education

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**Seoul National University (SNU)** Mar 2020 – Aug 2026 (expected)  
B.S. in Electrical and Computer Engineering *Seoul, South Korea*

- 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)** Mar 2017 – Feb 2020  
High school for gifted students in mathematics and science *Suwon, South Korea*

- GPA: 4.11/4.3 (Cumulative)

## Publications

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(\* 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

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**M.IN.D Lab @ SNU (Advisor: Taesup Moon)** Jul 2024 – Present  
Undergraduate Research Intern *Seoul, South Korea*

- 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

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**SNU Semiconductor-Specialized University Scholarship** Sep 2024 – Feb 2027  
SNU Semiconductor-Specialized University (SNU SSU)

- Selective scholarship for academic achievement, publication grants and global scholarship support
- Awarded \$700 USD for academic achievement, \$400 USD for poster presentation
- Provided NVIDIA L40S and NVIDIA RTX A6000 GPUs for deep learning research

**Presidential Science Scholarship** Mar 2024 – Feb 2026  
Korea Student Aid Foundation (KOSAF)

- Full tuition (\$2,000 USD / semester) and living expenses (\$1,700 USD / semester) support for undergraduate studies

**Merit-based Scholarship** Sep 2021 – Feb 2022  
Dept. of ECE, SNU

## 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