

Juhyeon Park

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EDUCATION

2023 - present **Seoul National University**

Ph.D Candidate in Interdisciplinary Program in Artificial Intelligence
(Advisor: Prof. Taesup Moon)

2017 - 2023 **Seoul National University**

B.S. in Electrical and Computer Engineering (Minor: Statistics) (GPA 3.94/4.3)
Thesis: CIF: Cleansing data with influence score for fairness

RESEARCH INTEREST

- Brain + AI (Alzheimer's Disease Diagnosis, Brain Decoding, Multimodality)
"Can AI help understand the brain? Can understanding of the brain advance AI?"
- AI Safety (Risks from model malfunctioning: debiasing, fairness, and privacy leakage)

PUBLICATIONS

(*: Equal Contribution, J: Journal, C: Conference, W: Workshop)

[C3] Peter Yongho Kim*, **Juhyeon Park***, Jungwoo Park, Jubin Choi, Jungwoo Seo, Jiook Cha, and Taesup Moon (2026) “Can Natural Image Autoencoders Compactly Tokenize fMRI Volumes for Long-Range Dynamics Modeling?” In: *Computer Vision and Pattern Recognition Conference (CVPR)*.

Contributions: Preprocessed fMRI data, co-developed a novel tokenization scheme, identified the best-performing architecture, and designed a new task to study the link between long-range fMRI dynamics and task performance.

[J1] **Juhyeon Park***, Donggyu Lee* and Taesup Moon (2026) “Uncovering Group Robustness Issue in Early Diagnosis of MCI to AD Conversion and A Simple Solution: Decoupled Classifier with Adaptive Linear Modulation”. In: *Biomedical Signal Processing and Control*.

Contributions: Preprocessed the data, co-developed the main algorithm, led prognosis-task experiments, and conducted interpretation-related analyses.

[C2] **Juhyeon Park***, Peter Yongho Kim*, Jiook Cha, Shinjae Yoo, and Taesup Moon (2026) “SEED: Towards More Accurate Semantic Evaluation for Visual Brain Decoding”. In: *International Conference on Learning Representations (ICLR)*.

Contributions: Developed Cap-Sim, designed a human evaluation framework for meta-evaluation, and identified failure modes of current visual decoding models.

[W1] **Juhyeon Park***, Peter Yongho Kim*, Jungwoo Park*, Jubin Choi, Jungwoo Seo, Jiook Cha, and Taesup Moon (2025) “Processing fMRI Brain Signals Using Latents from Natural Image Autoencoders”. In: *Foundation Models for the Brain and Body NeurIPS 2025 Workshop, Oral presentation*.

Contributions: Preprocessed fMRI data, co-developed a novel tokenization scheme and explored architectures to identify the best-performing design.

[C1] **Juhyeon Park***, Seokhyeon Jeong* and Taesup Moon (2025) “TLDR: Text Based Last-layer Retraining for Debiasing Image Classifiers”. In: *Winter Conference on Applications of Computer Vision (WACV)*.

Contributions: Developed the main algorithm, proved the key lemma, and led all experiments.

PREPRINTS

(*: Equal Contribution, P: Preprint)

PROJECTS

Development and Demonstration of an AI Care Service for Dementia Prevention Based on a Large-Scale Brain–Omics–Language Foundation Model	Jul 2025 – Present
Decoding Emotion-Contextualized Perception during Brain–External Environment Interaction Based on an Animal–Human Multiscale Neuroscience Foundation Model	Aug 2023 – Present
Development of Explainable AI and Robust Data Processing Technologies Incorporating Cross-Modal Correlations in Neuroscience Data, NRF of Korea	Apr 2022 – Dec 2023

EXPERIENCE

Research Intern, Microsoft Research Asia - AI/ML Group (Advisor: Dongsheng Li)	Mar 2026 – Sep 2026
Intern, Naver CLOVA - Image Vision Team Developed a lightweight algorithm for human matting and a platform for automated model evaluation and leaderboarding. (Advisor: Youngjoon Yoo)	Jul 2022 – Dec 2022
Research Intern, M.IN.D Lab Developed an algorithm to enhance classifier fairness by cleansing training data using influence scores.	Jul 2021 – Feb 2023

HONORS & AWARDS

Hyundai Motor Chung Mong-Koo Foundation Scholarship Hyundai Motor Chung Mong-Koo Foundation	Sep 2023 - Present
SNU Merit-based Scholarship Dept. of Electrical and Computer Engineering, Seoul National University	Spring 2023
SNU Merit-based Scholarship Dept. of Electrical and Computer Engineering, Seoul National University	Spring 2021
HYUNSONG Educational & Cultural Foundation Scholarship HYUNSONG Educational & Cultural Foundation	Mar 2018 – Feb 2023

ACADEMIC SERVICES

Reviewer AAAI 2026, CVPR 2026
