

# Juhyeon Park

 beotborry |  beotborry.github.io |  parkjh9229@snu.ac.kr |  +82.10.4924.8148

## EDUCATION

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- 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

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- 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

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(\*: 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: *The IEEE/CVF Conference on Computer Vision and Pattern Recognition (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 Re-training for Debiasing Image Classifiers". In: *The IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*.

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

## PREPRINTS

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(\*: Equal Contribution, P: Preprint)

## PROJECTS

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**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

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**Research Intern, Microsoft Research Asia - AI/ML Group** Mar 2026 – Sep 2026  
(Advisor: Dongsheng Li)

**Intern, Naver CLOVA - Image Vision Team** Jul 2022 – Dec 2022  
Developed a lightweight algorithm for human matting and a platform for automated model evaluation and leaderboarding. (Advisor: Youngjoon Yoo)

**Research Intern, M.IN.D Lab** Jul 2021 – Feb 2023  
Developed an algorithm to enhance classifier fairness by cleansing training data using influence scores.

## HONORS & AWARDS

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**Hyundai Motor Chung Mong-Koo Foundation Scholarship** Sep 2023 - Present  
Hyundai Motor Chung Mong-Koo Foundation

**SNU Merit-based Scholarship** Spring 2023  
Dept. of Electrical and Computer Engineering, Seoul National University

**SNU Merit-based Scholarship** Spring 2021  
Dept. of Electrical and Computer Engineering, Seoul National University

**HYUNSONG Educational & Cultural Foundation Scholarship** Mar 2018 – Feb 2023  
HYUNSONG Educational & Cultural Foundation

## ACADMEIC SERVICES

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**Reviewer**  
AAAI 2026, CVPR 2026