

Jiwoong Park, Ph.D. CURRICULUM VITAE (Last updated: Oct 2026)

Postdoctoral Researcher

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RESEARCH INTERESTS

- **Cognitive computational neuroscience**
Naturalistic goal-directed behavior, Flexible brain network reconfigurations, Cognitive control in action, Multi-agent social cognition
- **Naturalistic neuroimaging paradigms & Research tools**
Voxelwise encoding models, Interactive video games, Real-time human-AI interaction, Eyetracking, Large-scale scientific computing

EDUCATION

- **Sungkyunkwan University** Mar 2019 – Feb 2026
Ph.D. in Biomedical Engineering
Dissertation: The Neural Basis of Goal-Directed Behaviors in Naturalistic Cognition
- **Hanyang University** Mar 2013 – Aug 2017
B.Sc. in Chemistry
B.Sc. in Physics

RESEARCH EXPERIENCE

- **Postdoctoral Researcher**, Department of Neuroscience, University of California, Berkeley Apr 2026 – Present
Advisor: Jack L. Gallant
- **Visiting Scholar**, Department of Neuroscience, University of California, Berkeley Nov 2025 – Mar 2026
Advisor: Jack L. Gallant
- **Graduate Student Researcher**, Center for Neuroscience Imaging Research, Mar 2019 – Feb 2026
Institute for Basic Science, Sungkyunkwan University
Advisor: Won Mok Shim
- **Research Assistant**, Department of Chemistry, Hanyang University Sep 2017 – Feb 2019
Advisor: Yeong-do Won
- **Research Assistant**, College of Medicine, Hanyang University Feb 2014 – Jan 2015
Advisor: Insong Koh

PUBLICATIONS & PREPRINTS

1. **Park, J.**, Song, H., Shim, W. M. (2025). Hippocampal systems for event encoding and sequencing during ongoing narrative comprehension. *Communications Biology*. (Journal Cover Article)

2. **Park, J.**, Jeon, J. Y., Kim, R., Kay, K., Shim, W. M. (2026). Motion-corrected eye tracking improves gaze accuracy during visual fMRI experiments. *Nature Communications*.
3. Kwon, D.*, **Park, J.***, Shim, W. M. Organizing perception, action, and internal state into events. *Trends in Neurosciences*. (Accepted)
4. Kim, J., **Park, J.**, Whyte, C. J., Moon, J.-Y., Woo, C.-W., Shine, J. M., Yoo, S. B. M. A Neurocomputational Basis for Perceptual Hysteresis of Pain. (in revision)

* Co-first authors

PATENTS

- Shim, W. M., **Park, J.** METHOD FOR CORRECTING HEAD MOTION ERRORS IN EYE TRACKING DATA DURING FUNCTIONAL MAGNETIC RESONANCE IMAGING EXPERIMENTS
Korean Patent Application No. 10-2025-0142111 (2025)
U.S. Patent Application Series No. 19/816,590 (2026)

RESEARCH GRANTS & FELLOWSHIPS

- **Lee Hyun Koo Brain Science Fellowship**, Center for Neuroscience Imaging Research, \$20,000 2025 – 2026
Role: Fellow (Visiting Scholar, University of California, Berkeley)
- **Ph.D. Student Research Fellowship**, National Research Foundation of Korea, \$16,000/year 2021 – 2023
Role: Principal Investigator
- **K-Startup Grant**, Ministry of SMEs and Startups of Korea, \$35,000 2019 – 2020
Role: Founder & Principal Investigator

INVITED TALKS

- “Dynamic reconfiguration of cortical representations in naturalistic goal-directed behaviors.” Sungkyunkwan University, Suwon, Korea (2026)
- “Exploring the comprehensive cognitive landscape with the 7T Naturalistic Perception, Action & Cognition (NatPAC) dataset.” University of California, Berkeley, Berkeley, CA (2024)
- “Neuroimaging data visualization with Python.” Hanyang University, Seoul, Korea (2022)
- “Introduction to voxelwise encoding modeling.” Hanyang University, Seoul, Korea (2021)

CONFERENCE PRESENTATIONS

- “Cortical tuning reconfigures to prioritize behaviorally relevant representations across changing goals.” UC Berkeley Neuroscience Annual Conference, Berkeley, CA (2026)
- “Cortical representations of hierarchical goal-directed behavior in a naturalistic environment.” Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA (2025)
- “Neural representations of multi-agent dynamics in naturalistic goal-directed behavior.” Annual Meeting of the Korean Society for Cognitive and Biological Psychology (KSCBP), Gwangju, Korea (2025)
- “MoCET: A novel approach for advancing gaze tracking in functional MRI studies.” Annual Meeting of the Korean Society for Cognitive and Biological Psychology (KSCBP), Seoul, Korea (2024)

- “Motion-corrected eye-tracking (MoCET) improves gaze accuracy during visual fMRI experiments.” Annual Meeting of the Vision Science Society (VSS), St. Pete Beach, FL (2024)
- “The role of the hippocampus in forecasting future events during goal-directed behavior.” Annual Meeting of the Organization for Human Brain Mapping (OHBM), Seoul, Korea (2024)
- “Solving the narrative puzzle: Memory retrieval in the hippocampus during ongoing narrative perception.” Annual Meeting of the Korean Society for Cognitive and Biological Psychology (KSCBP), Seoul, Korea (2023)
- “Solving the narrative puzzle: Memory retrieval in the hippocampus during ongoing narrative perception.” Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA (2022)
- “A neuromarker of narrative comprehension abilities in constructing causal event structures.” Annual Meeting of the Korean Society for Cognitive and Biological Psychology, Virtual (2021)
- “A neuromarker of narrative comprehension in constructing causal structures.” Annual Meeting of the Society for Neuroscience (SfN), Virtual (2021)
- “Cognitive and neural state dynamics of individual differences in narrative comprehension.” Annual Meeting of the Korean Society for Brain and Neural Sciences (KSBNS), Virtual (2020)
- “Same story, different understandings: Neural correlates of individual differences in story understanding.” Annual Meeting of the Korean Society for Cognitive and Biological Psychology (KSCBP), Virtual (2020)
- “Same story, different understandings: Neural correlates of individual differences in story understanding.” Annual Meeting of the Organization for Human Brain Mapping (OHBM), Virtual (2020)
- “Same story, different understandings: Neural correlates of individual differences in story understanding.” IBS Conference on Neuroimaging, Suwon, Korea (2019)

AWARDS & HONORS

▪ Awards

- Best Project Award, Pycortex Hackathon, Berkeley Institute for Data Science (2026)
- First Place (Track 3), Data Challenge, Korean Society for Cognitive and Biological Psychology (2024)
- Outstanding Poster Award, Korean Society for Cognitive and Biological Psychology (2024)
- Outstanding Poster Award, Center for Neuroscience Imaging Research, Institute for Basic Science (2020, 2021, 2024)
- Best Undergraduate Thesis Award, Department of Chemistry, Hanyang University (2017)
- Honorable Mention, Korea supercomputing exhibitions, Korea Institute of Science and Technology Information (2016)
- Silver Prize (High school division), Samsung HumanTech Paper Award, Samsung Electronics (2012)

▪ Scholarships

- Four-year full-tuition scholarship, Hanyang University, \$10,000/year (2013 – 2016)
- Han-In Seok alumni scholarship, Hanyang University, \$1,200 (2015)

TEACHING EXPERIENCE

- **GBME 3045: Brain Imaging and Mapping**, Lab instructor, Sungkyunkwan University 2020 Fall
UNIX programming, fMRI preprocessing, General Linear Model, Basic statistics, MVPA & RSA
- **GBME 4005: Principles of Human Brain Mapping**, Lab instructor, Sungkyunkwan University 2021 Fall
Python programming, fMRI preprocessing, General Linear Model, Basic statistics, MVPA & RSA

- **GBME 4005: Principles of Human Brain Mapping**, Lab instructor, Sungkyunkwan University
Python programming, fMRI preprocessing, General Linear Model, Basic statistics, MVPA & RSA

2022 Fall

SKILLS & SERVICE

- **Scientific computing and Software development**
 - Highly qualified in Python, JAVA, DART, C, MATLAB, and other widely used scientific computing frameworks
 - Computer simulation, Numerical analysis, High-performance computing
 - Full-stack software development (iOS, Android), Video game development (Unreal Engine)
- **Service**
 - Student body president, Center for Neuroscience Imaging Research, Institute for Basic Science (2022 – 2023)
 - Graduate student council, Sungkyunkwan University (2019 – 2022)
 - Startup & research mentor, Gyeonggido Job Foundation (2024 – 2025)
 - Maintainer, gallantlab/pycortex (2026 – Present)

REFERENCES

- **Jack L. Gallant, Ph.D.**
Professor and Class of 1940 Chair, Department of Neuroscience, University of California, Berkeley
Co-Director, Henry H. Wheeler Jr. Brain Imaging Center, University of California, Berkeley
gallant@berkeley.edu
- **Won Mok Shim, Ph.D.**
Associate Professor, Department of Biomedical Engineering, Sungkyunkwan University
Center for Neuroscience Imaging Research (CNIR), Institute for Basic Science (IBS)
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