HEEKYEONG PARK

Contact Information:
Department of Psychology
University of North Texas at Dallas
E-mail: Heekyeong.Park@untdallas.edu
Phone: 972-338-1132

ACADEMIC EXPERIENCE

2021-Present Assistant Professor, University of North Texas at Dallas
Adjunct Research Associate, Laureate Institute for Brain Research

2016- 2021 Research Associate, Laureate Institute for Brain Research, Tulsa, OK
Assistant Professor, Tulsa Community College

2009-2016 Assistant Professor, The University of Texas at Arlington,
Department of Psychology

Affiliated Fellow, The University of Texas at Dallas,
Center for Vital Longevity

2010-2016 Graduate Faculty, The University of Texas Southwestern Medical Center,
Graduate School of Biomedical Sciences

2010-2015 Adjunct Professor, The University of Texas Southwestern Medical
Center, Department of Psychiatry, Division of Psychology

2008-2009 Associate Specialist, University of California-Irvine,
Center for Neurobiology of Learning and Memory &
Department of Neurobiology and Behavior (Director: Dr. Michael Rugg)

2006-2008 Postdoctoral Scholar, University of California-Irvine,
Center for Neurobiology of Learning and Memory &
Department of Neurobiology and Behavior

2002-2005 Postdoctoral Research Associate, Carnegie Mellon University,
Department of Psychology (Supervisor: Dr. Lynne Reder)

2000-2002 Senior Research Scientist, Sungkyunkwan University, Seoul, S. Korea

1996-2000 Lecturer,
University of Maryland University College, Asia Division
Ewha W. University, Department of Psychology
Sungkyunkwan University, Department of Industrial Psychology
Sungshin W. University, Department of Education

EDUCATION

1990-1995	Doctor of Philosophy, Psychology University of Southern California, Los Angeles, CA
1990-1992	Master of Arts, Psychology University of Southern California, Los Angeles, CA
1986-1988	Master of Arts, Educational Psychology Ewha W. University, Seoul, Korea
1982-1986	Bachelor of Arts, Educational Psychology Ewha W. University, Seoul, Korea

PROFESSIONAL AFFILIATIONS

1997-Present	Psychonomic Society (Fellow)
2006-Present	Cognitive Neuroscience Society (Member)
2021-Present	Society of Biological Psychiatry (Member)
2006-2017	Society for Neuroscience (Member)

ACADEMIC AWARDS

2010	NSF Junior Faculty Development
2008	NSF Women in Science and Engineering

FIELDS OF EXPERTISE

Cognitive neuroscience on human memory, cognition, and aging
Translational neuroscience: genotype and phenotype risks in depression and rumination
Neuroimaging studies (MRI)

TEACHING EXPERIENCE

Courses taught at UNT Dallas (modality): Fall 2021 – Summer 2024

Introduction to Psychology (online, face-to-face, hybrid)
Health Psychology (online)
Statistics in Psychology (hybrid, online)
Drugs and Behavior (face-to-face)
Advanced Seminar in Psychology: Capstone (online, face-to-face, hybrid)
Clinical Neuroscience (online)
Psychophysiology (online, hybrid)
Introduction to Learning and Memory (online)

Courses taught previously (all face-to-face)

Human Learning and Memory (U & G),
Higher Mental Processes (U & G),
Advanced Cognitive Psychology (U),
Cognitive Neuroscience (G),
Readings in Neuropsychology (G),
Independent Study (U & G)

PUBLICATIONS (* denotes correspondence)

Journal Articles

Park, H.*, Forthman, K.L., Kuplicki, R., Victor, T.A., Yeh, H., Thompson, W.K., Howlett, J., Guinjoan S. & Paulus, M.P. (2023). Polygenic risk for neuroticism is associated with less efficient control in more difficult situations. Psychiatry Research; Neuroimaging. 335. 111716.

Sanchez, SM., Tsuchiyagaito, A., Kuplicki, R., Park, H., Postolski, I., Rohan M., Paulus, M.P., & Guinjoan, S.M. (2023). Repetitive negative thinking -specific and nonspecific white matter tracts engaged by historical psychosurgical targets for depression. Biological Psychiatry. 94, 661-671.

Media Coverage: Biological Psychiatry [October 2023; Commentary: Belforte, J.E. (2023). Moving forward precision medicine in Psychiatry, 94, 607-608]

Tsuchiyagaito, A., Sanchez, SM., Misaki, M., Kuplicki, R., Park, H. Paulus, M.P., & Guinjoan, S.M. (2023). Intensity of repetitive negative thinking in depression is associated with greater functional connectivity between semantic processing and emotion regulation areas. Psychological Medicine, 53:5488-5499.

Howlett, J., **Park, H.**, & Paulus, M.P. (2023). Neural underpinnings of continuous and discrete inhibitory control. *Translational Psychiatry. 13:23*.

Park, H., Sanchez, SM., Kuplicki, R., Tsuchiyagaito, A., Khalsa S.S., Paulus, M.P., & Guinjoan, S.M. (2022). Attenuated interoceptive processing in individuals with major depressive disorder and high repetitive negative thinking. *Journal of Psychiatric Research, 156,* 237-244.

Media Coverage: Dolan E. (2022) Highly ruminative individuals with depression exhibit abnormalities in the neural processing of gastric interoception. PsyPost (Depression, Neuroimaging section), November 2022

Park, H., Kirlic, N., Kuplicki, R., Tulsa 1000 investigators, Paulus, M.P., & Guinjoan, S.M. (2022). Neural processing dysfunctions during fear learning but not reward-related

processing characterize depressed individuals with high levels of repetitive negative thinking. *Biological Psychiatry: Cognitive Neuroscience & Neuroimaging,* 7, 718-724.

Park, H.*, Forthman, K.L., Kuplicki, R., Victor, T.A., Yeh, H., Thompson, W.K., & Paulus, M.P. (2022). Functional magnetic resonance imaging data for the association between polygenic risk scores for neuroticism and reward-punishment processing. *Data in Brief*, 42:108014.

Park, H.*, Forthman, K.L., Kuplicki, R., Victor, T.A., Tulsa 1000 Investigators, Yeh, H., Thompson, W.K., & Paulus, M.P. (2021). Polygenic risk for neuroticism moderates response to gains and losses in amygdala and caudate: From a clinical cohort. *Journal of Affective Disorders,* 293, 124-132.

Park, H.* (2020). Neuroscience, selflessness, and spiritual experience. *International Journal for the Psychology of Religion*, 30, 243-245.

Lim, A.H., & **Park, H.*** (2019). The effect of music on arousal, enjoyment, and cognitive performance. *Psychology of Music*, *47*, 539-550.

Puk, K.M., Gandy, K.C., Wang, S., & **Park, H.** (2016). Pattern classification and analysis of memory processing in depression using EEG signals. *Brain Informatics and Health, LNAI 9919,* 124-137.

Kam, KM., Schaeffer, J.D., Wang, S., & **Park, H.** (2016). A comprehensive feature and data mining study on musician memory processing using EEG signals. *Brain Informatics and Health, LNAI 9919,* 138-148.

Park, H.*, Abellanoza, C., & Schaeffer, J.D. (2014). Comparison of retrieval activity for associative and source memory. *Neuroscience Letters, 581,* 52-56.

Park, H.*, Leal, F., Abellanoza, C., & Schaeffer, J.D. (2014). The formation of source memory under distraction. *Behavioral and Brain Functions, 10:40*.

Schaeffer, J.D., Yennu, A.S., Gandy, K.C., Tian F., Liu, H., & **Park, H.*** (2014). An fNIRS investigation of associative recognition in the prefrontal cortex with a rapid event-related design. *Journal of Neuroscience Methods, 235,* 308-315.

Park, H.*, Abellanoza, C., Schaeffer, J.D., & Gandy, K.C. (2014). Source recognition by stimulus content in the MTL. *Brain Research*, *1553,* 59-68.

Park, H.*, Leal, F., Spann, C., & Abellanoza, C. (2013). The effect of object processing in content-dependent source memory. *BMC Neuroscience*, *14:71* DOI: 10.1186/1471-2202-14-71.

Park, H.*, Kennedy, K.M., Rodrigue, K.M., Hebrank, A., & Park, D.C. (2013). An fMRI study of episodic encoding across the lifespan: Changes in subsequent memory effects are evident by middle age. *Neuropsychologia, 51,* 448-456.

Park, H.*, Shannon, V., Biggan, J., & Spann, C. (2012). Conjoint neural correlates of the formation of item-item and item-context associations. *Brain Research, 1471,* 81-92.

Park, H.*, & Rugg, M.D. (2011). Neural correlates of encoding within- and across-domain inter-item associations. *Journal of Cognitive Neuroscience, 23,* 2533-2543.

Park, H.*, & Rugg, M.D. (2010). Pre-stimulus hippocampal activity predicts later recollection. *Hippocampus, 20,* 24-28.

Reder, L.M., **Park, H.**, & Kieffaber, P. (2009). Memory systems do not divide consciousness: Reinterpreting memory in terms of activation and binding. *Psychological Bulletin, 135,* 23-49.

Park, H.*, & Rugg, M.D. (2008). Neural correlates of successful encoding of semantically and phonologically mediated inter-item associations. *NeuroImage, 43,* 165-172.

Park, H.*, Uncapher, M., & Rugg, M.D. (2008). Effects of study task on the neural correlates of encoding operations supporting successful source memory. *Learning & Memory, 15,* 417-425.

Rugg, M.D., Johnson, J.D., **Park, H.**, & Uncapher, M. (2008). Encoding-retrieval overlap in human episodic memory: A functional neuroimaging perspective, *Progress in Brain Research, 169,* 339-352.

Park, H.*, & Rugg, M.D. (2008). The relationship between study processing and the effects of cue congruency at retrieval: fMRI support for Transfer Appropriate Processing. *Cerebral Cortex, 18,* 868-875.

Park, H.*, Arndt, J., & Reder, L.M. (2006). A contextual interference account of distinctiveness effects in recognition. *Memory & Cognition, 34,* 743-751.

Diana, R., Reder, L.M., Arndt, J., & **Park, H.** (2006). Models of recognition: A review of arguments in favor of a dual-process account. *Psychonomic Bulletin & Review, 13,* 1-21.

Park, H.*, Reder, L.M., & Dickison, D. (2005). The effect of word frequency and similarity on recognition judgments: The role of recollection. *Journal of Experimental Psychology: Learning, Memory, & Cognition, 31,* 568-578.

Park, H.*, Quinlan, J., Thornton, E., & Reder, L.M. (2004). The effect of midazolam on visual search: Implications for understanding amnesia. *Proceedings of the National Academy of Sciences, USA, 101,* 17879-17883.

Reviewed as the Target Article
Nature Reviews Neuroscience [February 2005; Research Highlights: Qiu, J. (2005). Memory theory: Crossing the divide, *Nature Reviews Neuroscience, 6(2),* 94-94]

Trends in Cognitive Sciences [August 2005; Research Focus: Chun, M.M. (2005). Drug-induced amnesia impairs implicit relational memory. *Trends in Cognitive Sciences, 9(8),* 355-357]

Park, H.*, & Madigan, S.A. (1993). Negative effects of part-set cues: Are they reversible? *The Bulletin of the Psychonomic Society, 31,* 311-313. (currently *Psychonomic Bulletin & Review*)

Park, Y., Kim, K., & **Park, H.** (2004). The effect of emotional valence on true and false memories using the DRM paradigm. *The Korean Journal of Experimental Psychology, 16,* 131-150.

Park, H.*, Park, M., & Lee, J. (2001). Working memory capacity, incubation, and creativity. *The Korean Journal of Experimental and Cognitive Psychology, 12,* 322-338.

Park, H.* (2001). Theories of memory and neuropsychological evidence. *Korean Journal of Psychology: General, 20,* 129-150.

Park, H.* (2000). An analysis of experimental variables on hypermnesia: Presentation types and instructions. *Korean Society for Cognitive Science, 11,* 95-105.

Lee, J., & **Park, H.*** (2000). Is it necessary to distinguish semantic memory from episodic memory? *Korean Society for Cognitive Science, 11,* 33-43.

Park, H.* (1999). Explicit memory and implicit memory: Processes or systems? *Korean Journal of Psychology: General, 18,* 65-85.

Park, H.* (1998). Multiple memory systems. *Korean Research for Memory, 1,* 67-79.

Park, H.*, & Madigan, S.A. (1997). The boundary conditions of the list-strength effect in recall. *The Korean Journal of Experimental and Cognitive Psychology, 9,* 61-71.

GRANT AWARDS

2023 Park, H. (PI) Head Start: Develop self-confidence and growth mindset by changing beliefs. Center for Socioeconomic Mobility through Education Grant II: Social Innovation ($25,000)

2015-2016 Park, H. (PI) EEG investigation of memory in Down's syndrome, Research Enhancement Program: University of Texas at Arlington

2014-2016 Park, H. (Senior Personnel) CC*IIE Networking infrastructure: Campus networking for transformative exascale research (PI: Kaushik De), National Science Foundation

2014-2015 Park, H. (Co-PI) Society for Neuroscience Chapter Award, Society for Neuroscience

2011-2013 Park, H. (Co-Investigator) Neuroimaging of Dedifferentiation and Memory across the lifespan (PI: D.C. Park), National Institute on Aging: NIH

2011-2012 Park, H. (Co-PI) Society for Neuroscience Chapter Award, Society for Neuroscience

2010-2011 Park, H. (PI) Brain activity predicting successful associative memory, Research Enhancement Program: University of Texas at Arlington

SERVICE

Service for UNT Dallas: Fall 2021 – Summer 2024

2024 LAS Faculty Showcase- Chair (College)
2024 Mindset Workshop – Presenter (University)
2024 Developmental Education Summer Bootcamp – Presenter (University)
2023-Present Core Curriculum Committee (University)
2023-Present Psychology BS Neuroscience program (Department)
2023-Present Psychology Program Assessment (Department)
2023-Present College Readiness & Success Advisory Committee (University)
2023-Present Psychology Assessment Director (University)
2023 Growth-Mindset Bootcamp (University)
2023 LAS Faculty Showcase (College)
2023 Search Committee for Lecturer of Neuroscience (Department)
2023 Search Committee for Lecturer of Psychology (Department)
2022-Present STEM Strategic Planning Committee (University)
2022-Present LAS Reappointment, Promotion, & Tenure Committee (College)
2022-Present McNair Scholars Program Faculty Mentor (University)
2021-Present Trailblazer Elite Faculty Mentor (University)
2021-Present Neuroscience Program Committee (Department)
2021-Present Psychology Career Day (Department)
2021-Present Adjunct Faculty Evaluation (Department)

Service for Profession

2023-Present Associate Editor, Frontiers in Cognition (Section: Memory)

2002-Present Peer-reviewer

Biological Psychiatry, BMC: Geriatrics, BMC: Neurosciences, Brain, Brain & Cognition, Brain Research, Cerebral Cortex, Comprehensive Psychiatry, Frontiers in Neurosciences, Frontiers in Psychology, Frontiers in Cognition, Human Brain Mapping, Journal of Affective Disorders, Learning & Motivation, Neuroscience Letters, PLOS, Progress in Neuropsychopharmacology, Scientific Reports, Social, Cognitive, & Affective Neuroscience
American Journal of Psychology, Brain Research, Brain Research & Cognition, Brain Topography, Canadian Journal of Experimental Psychology, Cerebral Cortex, Frontiers in Psychology, Journal of Applied Biobehavioral Research, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning, Memory & Cognition, Journal of General Psychology, Journal of Memory and Language, Memory & Cognition, Neurobiology of Aging, NeuroImage, Neuropsychologia, Neuroreport, Neuroscience Letters, PLOS, Psychonomic Bulletin & Review, Psychological Science, Scientific Reports, Social, Cognitive, & Affective Neuroscience, Trends in Cognitive Sciences