

Jooyeon Jamie Im

Phone: +82 10-8729-5270
Email: jooyeonim@gmail.com

EDUCATION

- 2014-2017 **Ph.D.**, Neuroscience
Seoul National University
- 2012-2014 **M.S.**, Neuroscience
Seoul National University
- 2005-2010 **B.A.** with Distinction, Psychology, *Magna Cum Laude*
Minor in Statistics
Boston University

RESEARCH EXPERIENCE

- 2021-Present **Postdoctoral Fellow**, Computational Clinical Science Laboratory
Department of Psychology, Seoul National University, Seoul, Korea
Supervisor: Woo-Young Ahn, PhD
- 2017-2021 **Postdoctoral Fellow**, Department of Nuclear Medicine
Incheon St. Mary's Hospital, Catholic University of Korea, Incheon, Korea
Supervisor: Yong-An Chung, MD, PhD
- 2013-2017 **Graduate Student Research Assistant**, Ewha Brain Institute
Ewha Womans University, Seoul, Korea
Supervisor: In Kyoon Lyoo, MD, PhD, MMS
- 2011-2012 **Clinical Research Assistant**, Brain Imaging Center
Department of Psychiatry, Seoul National University Hospital, Seoul, Korea
Supervisor: In Kyoon Lyoo, MD, PhD, MMS
- 2010-2011 **Clinical Research Assistant**, Behavioral Neuroscience Laboratory
Department of Psychiatry, Massachusetts General Hospital, Charlestown, MA, USA
Supervisor: Mohammed R. Milad, PhD
- 2009-2010 **Undergraduate Research Assistant**, Center for Anxiety and Related Disorders
Boston University, Boston, MA, USA
Supervisors: David H. Barlow, PhD and Donna B. Pincus, PhD
- Summer 2008 **Undergraduate Research Assistant**, Trauma Services Division, Child Study Center
Yale University School of Medicine, New Haven, CT, USA
Supervisors: Steven Berkowitz, MD, Carla Stover, PhD, and Steven Marans, PhD

- Summer 2007 **Undergraduate Research Assistant**, Developmental Psychology Lab
Boston University, Boston, MA, USA
Supervisor: Kim Saudino, PhD
- 2005-2006 **Undergraduate Research Assistant**, Center for Anxiety and Related Disorders
Boston University, Boston, MA, USA
Supervisors: David H. Barlow, PhD, Domenic Ciraulo, MD, and Suzy Gulliver, PhD

RESEARCH GRANT

- 2018-2021 **Research Fellow Grant**, PI, 150,000,000 KRW/3 years
Basic Science Research Program, National Research Foundation of Korea (NRF)
“Investigating brain mechanisms and new treatment modalities for persistent postural-perceptual dizziness (PPPD)” (2018R1A6A3A11041118)

PUBLICATIONS

2021

1. **Im JJ**, Na S, Jeong H, Chung YA. A review of neuroimaging studies in persistent postural-perceptual dizziness (PPPD). *Nuclear Medicine and Molecular Imaging*. (In press)
2. Jeong H, Oh JK, Choi EK, **Im JJ**, Yoon S, Knotkova H, Bikson M, Song IU, Lee SH, Chung YA. Effects of transcranial direct current stimulation on addictive behavior and brain glucose metabolism in problematic online gamers. *Journal of Behavioral Addictions*. (In press)
3. **Im JJ**, Kim J, Jeong H, Oh JK, Lee S, Lyoo IK, Chung YA, Yoon S. Prefrontal white matter abnormalities associated with pain catastrophizing in patients with complex regional pain syndrome. *Archives of Physical Medicine and Rehabilitation*. 2021; 102(2): 216-24.

2020

4. Na S, **Im JJ**, Jeong H, Lee ES, Lee TK, Chung YA, Song IU. Altered regional cerebral blood perfusion in mild cognitive impairment patients with dizziness. *Diagnostics*. 2020; 10(10), 777.
5. Song IU, **Im JJ**, Jeong H, Na SH, Chung YA. Possible neuroprotective effects of rasagiline in Alzheimer's disease: a SPECT study. *Acta Radiologica*. 2020.
6. Choi EK, Park M, **Im JJ**, Chung YA, Oh JK. Prognostic value of 18F-FDG PET/CT metabolic parameters in small cell lung cancer. *Journal of International Medical Research*. 2020; 48(4): 0300060519892419.

2019

7. Lee SH, **Im JJ**, Oh JK, Choi EK, Yoon S, Bikson M, Song IU, Jeong H, Chung YA. Transcranial direct current stimulation for online gamers. *Journal of Visualized Experiments*. 2019; 153: e60007.
8. **Im JJ***, Jeong H*, Chung YA, Park JS, Heo Y, Oh JK, Song IU. Neuroprotective effects of rasagiline in Parkinson's disease: a regional cerebral blood flow study. *Journal of Neuroimaging*. 2019; 29(6): 707-11.
9. **Im JJ***, Jeong H*, Bikson M, Woods AJ, Unal G, Oh JK, Na S, Park JS, Knotkova H, Song IU, Chung YA. Effects of 6-month at-home transcranial direct current stimulation on cognition and cerebral glucose metabolism in Alzheimer's disease. *Brain Stimulation*. 2019; 12(5): 1222-8.

10. **Im JJ***, Jeong H*, Oh JK, Chung YA, Song IU, Lee KS. Effects of nicergoline treatment on regional cerebral blood flow in early Alzheimer's disease. *International Journal of Imaging Systems and Technology*. 2019; 29(3): 323-8.
11. Yoo ID, **Im JJ**, Chung YA, Choi EK, Oh JK, Lee SH. Prediction of postoperative lung function in lung cancer patients using perfusion scintigraphy. *Acta Radiologica*. 2019; 60(4): 488-95.
12. Park J, **Im JJ**, Song IU, Kang Y. A comparison of memory beliefs, cognitive activity, and depression among healthy older adults, amnesic mild cognitive impairment, and patient with Alzheimer's disease. *Annals of Geriatric Medicine and Research*. 2019; 23(1): 16-9.
13. Kim GH, Kim JY, Kim JE, Ma J, Kim BR, **Im JJ**, Jeong HS, Namgung E, Lee S, Kang I, Lyoo IK. Alterations in structural rich-club connectivity of the precuneus are associated with depressive symptoms among individuals with subjective memory complaints. *Cognitive, Affective, & Behavioral Neuroscience*. 2019; 19(1): 73-87.
14. Na S, **Im JJ**, Jeong H, Lee ES, Lee TK, Chung YA, Song IU. Cerebral perfusion abnormalities in patients with persistent postural-perceptual dizziness (PPPD): a SPECT study. *Journal of Neural Transmission*. 2019; 126(2): 123-9.

2018

15. Lee SH, **Im JJ**, Oh JK, Choi EK, Yoon S, Bikson M, Song IU, Jeong H, Chung YA. Transcranial direct current stimulation for online gamers: a prospective single-arm feasibility study. *Journal of Behavioral Addictions*. 2018; 7(4): 1166-70.
16. Choi EK, **Im JJ**, Park CS, Chung YA, Kim K, Oh JK. Usefulness of feature analysis of breast-specific gamma imaging for predicting malignancy. *European Radiology*. 2018; 28(12): 5195-202.
17. Jeong H, Kang I, **Im JJ**, Park JS, Na SH, Heo Y, Yang Y, Chung YA, Song IU. Brain perfusion correlates of apathy in Alzheimer's disease. *Dementia and Neurocognitive Disorders*. 2018; 17(2): 50-6.
18. Woo J*, Kim JE*, **Im JJ***, Lee J, Jeong HS, Park S, Jung SY, An H, Yoon S, Lim SM, Lee S, Ma J, Shin EY, Han YE, Kim B, Lee EH, Feng L, Chun H, Yoon BE, Kang I, Dager SR, Lyoo IK, Lee CJ. Astrocytic water channel aquaporin-4 modulates brain plasticity in both mice and humans: a potential gliogenetic mechanism underlying language-associated learning. *Molecular Psychiatry*. 2018; 23(4): 1021-30.
19. Choi KE, Na SH, Jeong HS, **Im JJ**, Kim YD. Superficial siderosis of the central nervous system due to spinal ependymoma. *Annals of Geriatric Medicine and Research*. 2018; 22(1): 43-5.
20. Jang KS, **Im JJ**, Chung YA, Chung SW, Jeong HS, Kim MW. Assessment of cerebral blood perfusion changes after neurorehabilitation therapy in patients with middle cerebral artery infarction: an acetazolamide-challenged SPECT study. *International Journal of Imaging Systems and Technology*. 2018; 28(1): 15-20.
21. Jeong HS, Lee SR, Kim JE, Lyoo IK, Yoon S, Namgung E, Chang KT, Kim BS, Yang S, **Im JJ**, Jeon S, Kang I, Ma J, Chung YA, Lim SM. Brain structural changes in cynomolgus monkeys administered with 1-methyl-4-phenyl-1, 2, 3, 6-tetrahydropyridine: a longitudinal voxel-based morphometry and diffusion tensor imaging study. *PLoS ONE*. 2018; 13(1), e0189804.

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22. **Im JJ***, Jeong HS*, Park JS, Yang Y, Na SH, Oh JK, Chung YA, Song IU. Changes in regional cerebral perfusion after nicergoline treatment in early Alzheimer's disease: a pilot study. *Dementia and Neurocognitive Disorders*. 2017; 16(4): 104-9.
23. **Im JJ***, Jeong HS*, Chung YA, Song IU. Beneficial clinical effects of Chios mastic gum: a review. *Austin Biology*. 2017; 2(1): 1022.
24. Chon Y, Jeong HS, **Im JJ**, Oh JK, Kim YD, Chung YA, Kim DJ. Alterations of regional cerebral blood flow after NMDA receptor antagonist administration in patients with alcohol-related dementia. *International Journal of Imaging Systems and Technology*. 2017; 27(4): 376-82.

25. Ma J, Kang HJ, Kim JY, Jeong HS, **Im JJ**, Namgung E, Kim MJ, Lee S, Kim TD, Oh JK, Chung YA. Network attributes underlying intellectual giftedness in the developing brain. *Scientific Reports*. 2017; 7(1): 1-9.
26. **Im JJ***, Jeong HS*, Park JS, Na SH, Chung YA, Yang Y, Song IU. Associations between brain perfusion and sleep disturbance in patients with Alzheimer's disease. *Dementia and Neurocognitive Disorders*. 2017; 16(3): 72-7.
27. **Im JJ***, Kim B*, Hwang J, Kim JE, Kim JY, Rhie SJ, Namgung E, Kang I, Moon S, Lyoo IK, Park CH. Diagnostic potential of multimodal neuroimaging in posttraumatic stress disorder. *PLoS ONE*. 2017; 12(5), e0177847.
28. Yoon S, Kim JE, Hwang J, Kang I, Jeon S, **Im JJ**, Kim BR, Lee S, Kim GH, Rhim H, Lim SM. Recovery from posttraumatic stress requires dynamic and sequential shifts in amygdalar connectivities. *Neuropsychopharmacology*. 2017; 42(2): 454-61.

2016

29. Kim B, Hong VM, Yang J, Hyun H, **Im JJ**, Hwang J, Yoon S, Kim JE. A review of fermented foods with beneficial effects on brain and cognitive function. *Preventive Nutrition and Food Science*. 2016; 21(4): 297-309.
30. **Im JJ**, Namgung E, Choi Y, Kim JY, Rhie SJ, Yoon S. Molecular neuroimaging in posttraumatic stress disorder. *Experimental Neurobiology*. 2016; 25(6): 277-95.
31. Yoon S, Kim JE, Kim GH, Kang HJ, Kim BR, Jeon S, **Im JJ**, Hyun H, Moon S, Lim SM, Lyoo IK. Subregional shape alterations in the amygdala in patients with panic disorder. *PLoS ONE*. 2016; 11(6), e0157856.
32. Park S, Jeong HS, **Im JJ**, Jeon Y, Ma J, Choi Y, Ban S, Kim S, Yu S, Lee S, Jeon S. Reliability and validity of the Korean version of the Post-Traumatic Stress Disorder Checklist in public firefighters and rescue workers. *Korean Journal of Biological Psychiatry*. 2016; 23(1): 29-36.

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33. Jeong HS, Jeon Y, Ma J, Choi Y, Ban S, Lee S, Lee B, **Im JJ**, Yoon S, Kim JE, Lim JH. Validation of the Athens Insomnia Scale for screening insomnia in South Korean firefighters and rescue workers. *Quality of Life Research*. 2015; 24(10): 2391-5.
34. Jeong HS, Kang I, Namgung E, **Im JJ**, Jeon Y, Son J, Yu S, Kim S, Yoon S, Lyoo IK, Chung YA. Validation of the Korean version of the Connor–Davidson Resilience Scale-2 in firefighters and rescue workers. *Comprehensive Psychiatry*. 2015; 59: 123-8.
35. Kwon O, Lee S, Ban S, **Im JJ**, Lee DS, Lee EH, Kim J, Lim SM, Lee SG, Kang I, Kim KH. Effects of the combination herbal extract on working memory and white matter integrity in healthy individuals with subjective memory complaints: a randomized, double-blind, placebo-controlled clinical trial. *Korean Journal of Biological Psychiatry*. 2015; 22(2), 63-77.
36. Lee SH, Park YC, Hwang J, **Im JJ**, Ahn D. Mental health of intermarried immigrant women and their children in South Korea. *Journal of Immigrant and Minority Health*. 2014; 16(1): 77-85.
37. Jeong HS, Jeong EJ, Yu SY, Lyoo YC, **Im JJ**, Bae S, Kim JE. Reliability and validity of the Korean version of the Lifespan Sibling Relationship Scale. *Experimental Neurobiology*. 2013; 22(4): 330-6.
38. Jeong HS, Lee S, Yoon S, Jung JJ, Cho HB, Kim BN, Ma J, Ko E, **Im JJ**, Ban S, Renshaw PF. Morphometric abnormalities of the lateral ventricles in methamphetamine-dependent subjects. *Drug and Alcohol Dependence*. 2013; 131(3): 222-9.
39. Milad MR, Furtak SC, Greenberg JL, Keshaviah A, **Im JJ**, Falkenstein MJ, Jenike M, Rauch SL, Wilhelm S. Deficits in conditioned fear extinction in obsessive-compulsive disorder and neurobiological changes in the fear circuit. *JAMA Psychiatry*. 2013; 70(6): 608-18.
40. Lee JH, Jeong HS, Lim SM, Cho HB, Ma JY, Ko E, **Im JJ**, Lee SH, Bae S, Lee YJ, Lyoo IK. Reliability and validity of the Fatigue Severity Scale among university student in South Korea. *Korean Journal of Biological Psychiatry*. 2013; 20(1), 6-11.

41. Cho H, Kim B, Choi J, Jeon Y, Kim JH, Jung JJ, **Im JJ**, Lee SH. Right amygdalar laterobasal subregional differences in healthy adults with different novelty seeking tendencies. *Korean Journal of Biological Psychiatry*. 2012; 19(2): 71-6.
42. Zeidan MA, Lebron-Milad K, Thompson-Hollands J, **Im JJ**, Dougherty DD, Holt DJ, Orr SP, Milad MR. Test–retest reliability during fear acquisition and fear extinction in humans. *CNS Neuroscience & Therapeutics*. 2012; 18(4): 313-7.
43. Rodman AM, Milad MR, Deckersbach T, **Im J**, Chou T, Dougherty DD. Neuroimaging contributions to novel surgical treatments for intractable obsessive–compulsive disorder. *Expert Review of Neurotherapeutics*. 2012; 12(2): 219-27.
44. Stover CS, Hahn H, **Im JJ**, Berkowitz S. Agreement of parent and child reports of trauma exposure and symptoms in the early aftermath of a traumatic event. *Psychological Trauma: Theory, Research, Practice, and Policy*. 2010; 2(3): 159.

** Indicates equal contribution*

TEACHING EXPERIENCE

2018 **Lecturer**, Brain & Cognitive Sciences, Scranton College, Ewha Womans University
 Convergence of Social and Brain Sciences (Undergraduate Course)
 Imaging the Human Mind (Undergraduate Course)

Updated on February 2021