

**Jinhee Kim, Ph.D.**

Psychology School, Korea University,  
145 Anan-ro Seongbuk-gu, Seoul, South Korea  
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**EDUCATION**

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- 2010 - 2016 Ph.D. Dept. Psychology, Kangwon National University, South Korea  
Dissertation: *Neural substrates during feedback-based learning in Internet gaming overusers*  
(PI: Eunjoo Kang)
- 2008 - 2010 M.A., Dept. Psychology, Kangwon National University, South Korea  
Thesis: *Reward and punishment in feedback learning: an fMRI study* (PI: Eunjoo Kang)
- 2002 - 2007 B.A., Dept. Psychology, Kyungpook National University, South Korea

**CAREER ACHIEVEMENT AND SKILLS**

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- 2019.11 - current Research professor, Laboratory of social and decision neuroscience, Department of Psychology, Korea University, South Korea (PI: Hackjin Kim)
2016. 01 - 2019.10 Postdoctoral research fellow, Research Imaging Centre, Centre for Addiction and Mental Health, Toronto, Canada (PI: Antonio P. Strafella)
2007. 01. - 2008. 02 Research Assistant, Cognitive Neuroimaging Lab, Department of Psychology, Kangwon National University, South Korea (PI: Eunjoo Kang)

**TEACHING EXPERIENCE**

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- 2022.03 – 2022.08 Introduction to Psychology (Lecturer, Korea University, Department of Psychology)
- 2020 Summer Cognitive Psychology (Lecturer, Korea University, Department of Psychology)
- 2015.03 – 2015.08 Introduction to Psychology (Lecturer, Kangwon National University, Department of Psychology)
- 2014.09 – 2015.02 Motivation and Emotion, Biological Psychology courses (Lecturer, Kangwon National University, Department of Psychology)
- 2011.03 – 2013.08 Introduction to Psychology (Lecturer, Kangwon National University, Department of Psychology)
- 2009.03 – 2011.02 Data Analysis and Practice I & II, Biological Psychology, Brain and Human, Cognitive Science (TA, Kangwon National University, Department of Psychology)

**PUBLICATIONS**

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**Journal Articles (Peer-reviewed)**

- Choi, J. C., Park, H. J., Park, J. A., Kang, D. R., Choi, Y. S., Choi, S., ... & **Kim, J\***. (2022). The increased analgesic efficacy of cold therapy after an unsuccessful analgesic experience is associated with inferior parietal

- lobule activation. *Scientific reports*, 12(1), 1-10. doi.org/10.1038/s41598-022-18181-0.100094 (\* the corresponding author)
- Green, D. G., Westwood, D. J., **Kim, J.**, Best, L. M., Kish, S. J., Tyndale, R. F., ... & Boileau, I. (2022). Fatty acid amide hydrolase levels in brain linked with threat-related amygdala activation. *Neuroimage: Reports*, 2(2), 100094. doi.org/10.1016/j.ynrp.2022.100094
- Green, D. G., **Kim, J.** \*, Kish, S. J., Tyndale, R. F., Hill, M. N., Strafella, A. P., ... & Boileau, I. (2021). Fatty acid amide hydrolase binding is inversely correlated with amygdalar functional connectivity: a combined positron emission tomography and magnetic resonance imaging study in healthy individuals. *Journal of Psychiatry and Neuroscience*, 46(2), E238-E246. doi.org/10.1503/jpn.200010 (\* co-first author)
- Diez-Cirarda, M., Gabilondo, I., Ibarretxe-Bilbao, N., Gómez-Esteban, J. C., **Kim, J.**, Lucas-Jiménez, O., ... & Strafella, A. P. (2021). Contributions of sex, depression, and cognition on brain connectivity dynamics in Parkinson's disease. *npj Parkinson's Disease*, 7, 11. doi.org/10.1038/s41531-021-00257-9
- Mihaescu, A. S., **Kim, J.**, Masellis, M., Graff-Guerrero, A., Cho, S. S., Christopher, L., ... & Strafella, A. P. (2021). Graph theory analysis of the dopamine D2 receptor network in Parkinson's disease patients with cognitive decline. *Journal of neuroscience research*, 99(3), 947-965. doi:10.1002/jnr.24760
- Criaud, M., **Kim, J. H.**, Zurowski, M., Lobaugh, N., Chavez, S., Houle, S., & Strafella, A. P. (2021). Anxiety in Parkinson's disease: Abnormal resting activity and connectivity. *Brain Research*, 1753, 147235. Doi:10.1016/j.brainres.2020.147235
- Navalpotro-Gomez, I., **Kim, J.**, Paz-Alonso, P. M., Delgado-Alvarado, M., Quiroga-Varela, A., Jimenez-Urbieto, H., Carreiras, M., Strafella, A.P., Rodriguez-Oroz M. C. (2020). Disrupted salience network dynamics in Parkinson's disease patients with impulse control disorders. *Parkinsonism & Related Disorders*. 70, 74-81. doi: 10.1016/j.parkreldis.2019.12.009
- Ghadery, C., Koshimori, Y., Christopher, L., **Kim, J.**, Rusjan, P., Lang, A., Houle, S., Strafella, A. P. (2020). The interaction between neuroinflammation and  $\beta$ -amyloid in cognitive decline in Parkinson's disease. *Molecular neurobiology*. 57(1), 492-501. Advance online publication. doi:10.1007/s12035-019-01714-6
- Kim, J.** \*, Ghadery, C., Cho, S. S., Mihaescu, A., Leigh, C., Valli, M., Houle, S., Strafella, A. P. (2019). Network Patterns of Beta-Amyloid deposition in Parkinson's Disease. *Molecular neurobiology*. 56(11), 7731-7740. doi:10.1007/s12035-019-1625-z (\* the corresponding author)
- Fiorenzato E., Strafella, A.P., **Kim, J.**, Roberta, S., Luca, W., Antonini, Al., Biundo, R. (2019) Dynamic functional connectivity changes associated with dementia in Parkinson's disease. *Brain*, 142(9), 2860-2872. doi:10.1093/brain/awz192
- Valli, M., Cho, S. S., Masellis, M., Chen, R., Rusjan, P., **Kim, J.**, Koshimori Y, Mihaescu A, Strafella, A. P. (2019). DRD2 Genotype-Based Variants Modulates D2 Receptor Distribution in Ventral Striatum. *Molecular neurobiology*. 56(9), 6512-6520. doi:10.1007/s12035-019-1543-0
- Mihaescu, A., Masellis, M., Graff-Guerrero, A., **Kim, J.**, Criaud, M., Cho, S. S., Ghadery, C., Valli, M., Strafella, A. P. Brain degeneration in Parkinson's disease patients with cognitive decline: a coordinate-based meta-analysis. *Brain Imaging and Behavior*. 13(4), 1021-1034. doi: 10.1007/s11682-018-9922-0
- Fiorenzato E., Biundo, R., Cecchin, D., Frigo, D. C., **Kim, J.**, Weis, L., Strafella, A.P., Antonini, A. Brain amyloid contribution to cognitive dysfunction in early-stage Parkinson's disease: The PPMI dataset. *Journal of Alzheimer's Disease*. 66(1), 229-237. doi:10.3233/JAD-180390
- Kim, J.**, Kang E. (2018). Internet game overuse is associated with an alteration of fronto-striatal functional connectivity during reward feedback processing. *Frontiers in Psychiatry*, 9(371). doi:10.3389/fpsy.2018.00371

- Kim, J. \***, Kang E. (2018). Strength of resting-state functional connectivity associated with performance-adjustment ability. *Behavioural Brain Research*. 347, 377-384. doi: 10.1016/j.bbr.2018.02.024. (\* the corresponding author)
- Coakeley, S., Cho, S. S., Koshimori, Y., Rusjan, P., Ghadery, C., **Kim, J.**, Lang, A. E., Houle, S., Strafella, A. P. (2018). [18F]AV-1451 binding to neuromelanin in the substantia nigra in PD and PSP. *Brain Structure and Function*. 223(2), 589-595. doi:10.1007/s00429-017-1507-y
- Diez-Cirarda, M., Strafella, A. P., **Kim, J.**, Peña, J., Ojeda, N., Cabrera-Zubizarreta, A., Ibarretxe-Bilbao, N. (2018). Dynamic functional connectivity in Parkinson's disease patients with mild cognitive impairment and normal cognition. *Neuroimage Clinical*. 17, 547-855. doi:10.1016/j.nicl.2017.12.013
- Kim, J. \***, Criaud, M., Cho, S. S., Diez-Cirarda, M., Mihaescu, A., Coakeley, S., Ghadery, C., Valli, M., Jacobs, M.F., Houle, S., Strafella, A. P. (2017). Abnormal intrinsic brain functional network dynamics in Parkinson's disease. *Brain*, 140(11), 2955-2967. doi:10.1093/brain/awx233 (\* the corresponding author)
- Kim, J.**, Kim, H., & Kang, E. (2017). Impaired feedback processing for symbolic reward in individuals with internet game overuse. *Frontiers in Psychiatry*, 8(195). doi:10.3389/fpsy.2017.00195
- Coakeley, S., Cho, S. S., Koshimori, Y., Rusjan, P., Harris, M., Ghadery, C., **Kim, J.**, Lang, A.E., Wilson A., Houle, S., Strafella, A. P. (2017). Positron emission tomography imaging of tau pathology in progressive supranuclear palsy. *Journal of Cerebral Blood Flow and Metabolism*, 37(9), 3150-3160. doi:10.1177/0271678X16683695
- Choi, J. C., Park, Y. H., Park, S. K., Lee, J. S., **Kim, J.**, Choi, J. I., Yoon, K. B., Lee, S., Lim, D. E., Choi, J. Y., Kim, M. H., Park, G., Choi, S. S., Lee, J. M. (2017). Testosterone effects on pain and brain activation patterns. *Acta Anaesthesiologica Scandinavica*, 61(6), 668-675. doi: 10.1111/aas.12908
- Ghadery, C., Koshimori, Y., Coakeley, S., Harris, M., Rusjan, P., **Kim, J.**, Houle, S., Strafella, A. P. (2017). Microglial activation in Parkinson's disease using [18 F]-FEPPA. *Journal of Neuroinflammation*, 14(1), 8. doi:10.1186/s12974-016-0778-1
- Choi, J. C., **Kim, J.**, Kang, E., Lee, J-M., Cha, J., Kim, Y. J., Lee, H.G. and Yi, D-J. (2016). Brain mechanisms of pain relief by transcutaneous electrical nerve stimulation: A functional magnetic resonance imaging study. *European Journal of Pain*. 26, 92-105. doi: 10.1002/ejp.696
- Choi, J. C., **Kim, J.**, Kang, E., Choi, Y-S., Cha, J., Han, C., Park, S. K., Kim, H., Lee, G. H., Choi, J-H., Do, H., and Lee, J-M. (2016). Step-down versus step-up noxious stimulation: differential effects on pain perception and patterns of brain activation. *Acta Anaesthesiologica Scandinavica*, 60(1), 117-127. doi:10.1111/aas.12607

#### Articles in Domestic Peer-reviewed Journals (in Korean)

- Jung, H., **Kim, J.**, Kang, E. (2017). Behavioral approach system (BAS) sensitivity and functional brain networks during rest: graph-theory analysis. *The Korean Journal of Cognitive and Biological Psychology*, 29(2), 105-125. doi: 10.22172/cogbio.2017.29.2.001
- Kim, J.**, Kang, E. (2017). Learning-associated reward and penalty in feedback learning: an fMRI activation study. *Korean Journal of Cognitive Science*, 28(1), 65-90. doi: 10.19066/cogsci.2017.28.1.004
- Kim, J.**, Kim, H. Cho, H., Jung, H., Kang, E. (2017). Neuroanatomical correlates of personality traits for internet gaming overuse: a VBM study. *Korean Journal of Psychology: General*, 36(1), 109-135. doi: 10.22257/kjp.2017.03.36.1.109
- Kim, J.**, Kang, E. (2017). Impaired resting-state functional connectivity of frontostriatal regions in internet game over-user. *The Korean Journal of Cognitive and Biological Psychology*, 29(1), 63-80. doi: 10.22172/cogbio.2017.29.1.004
- Kim, S., **Kim, J.**, Kang, E. (2015). Dynamic changes in feedback processing as learning progresses. *The Korean*

**Kim, J.**, Kang, E. (2013) Individual differences in feedback learning and regional gray matter volume. *The Korean Journal of Cognitive and Biological Psychology*, 25(4), 517-538. doi: 10.22172/cogbio.2013.25.4.007

### Book Chapters

Ghadery C, Valli M, Mihaescu A, Strafella R, Navalpotro I, **Kim J**, Strafella, A. P. (2018). Molecular Imaging of Addictive Behavior in Idiopathic Parkinson's Disease. In: Politis M, Editor. *Imaging in Movement Disorders: Imaging Methodology and Applications in Parkinson's Disease* (pp. 365-404.) Academic Press.

### ABSTRACT AND CONFERENCE PROCEEDING:

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**Kim, J.**, Kim, H., Neural mediators of the relationship between self-efficacy and self-protective tendency. the 15th Annual Meeting of the Social & Affective Neuroscience Society, Santa Barbara, USA, April 2023

Lim, G., **Kim, J.**, Chae, J., Kim, M., Lee. K., Lee., D., Kim, H., The influence of individual interoceptive ability on the tendency of social comparison.. the 15th Annual Meeting of the Social & Affective Neuroscience Society, Santa Barbara, USA, April 2023

Kang, H., Kim, K.I., **Kim, J.**, and Kim, H., Neural representations in MPFC and insula encode individual differences in estimating others' preferences, Santa Barbara, USA, April 2023

Kim, K., **Kim, J.**, and Kim, H., Medial prefrontal cortex commonly involved in reading preferences and emotions from others' faces. The Annual Meeting of Organization for Human Brain Mapping, Online, June 2021

Kim, J-Y., **Kim, J.**, and Kim, H., Intrinsic Brain Network Connectivity Predicts Individual Strategic Social Conformity Tendency. The Annual Meeting of Organization for Human Brain Mapping, Online, June 2021

**Kim, J.**, Valli, M., Criaud, M., Mihaescu, A., Cho, S. S., Diez-Cirarda, M., Strafella, A.P. The altered dynamic amplitude of low-frequency fluctuation associated with depression and anxiety in Parkinson's disease. Society for Neuroscience 49 th annual meeting, Chicago, USA, October 2019

Boileau, I., Green, D., Williams, B., Richardson, D., **Kim, J.**, Lobaugh, N., Tyndale, R.F., Bazinet, R., Houle, S., Tong, J., Kish, S. J., Fatty Acid Amide Hydrolase: Investigating potential brain-based biomarkers in Post-Traumatic Stress Disorder. Canadian College of Neuropsychopharmacology 41<sup>st</sup> Annual Meeting, Vancouver, Canada, June 2018

**Kim, J.**, Ghadery, C., Christopher, L., Cho, S. S., Mihaescu, A., Valli, M., Rusjan, P., Houle, S., Strafella, A. P., Graph analysis of brain networks in Parkinson's disease patients with beta-amyloid positive. The Annual Meeting of Organization for Human Brain Mapping, Singapore, June 2018

**Kim, J.**, Criaud, M., Cho, S. S., Diez-Cirarda, M., Mihaescu, A., Coakeley, S., Ghadery, C., Valli, M., Jacobs, M. F., Houle, S., Strafella, A.P. Abnormal dynamic functional networks in Parkinson's disease: a resting-state fMRI study. Society for Neuroscience 47th annual meeting, Washington, USA, November 2017

**Kim, J.**, Diez-Cirarda, M., Criaud, M., Cho, S. S., Mihaescu, A., Valli, M., Ghadery, C., Coakeley, S., Strafella, A. P., Abnormal dynamics of intrinsic brain functional networks in Parkinson's disease. The Annual Meeting of Organization for Human Brain Mapping, Vancouver, Canada, June 2017

Ghadery, C., Koshimori Y., **Kim, J.**, Coakeley, Sarah., Harris, M., Christopher, L., Rusjan, P., Lang, A.E., Houle, S., Strafella, A.P. Interactions between amyloid- $\beta$  and microglial activation in Parkinson's disease. The 20th International Congress of the international Parkinson and Movement Disorder, June 2017

Kang, E., Jeong, H., **Kim, J.** Individual differences in right DLPFC volume and repetition of error responses during

- S-R learning. *The Annual Meeting of Organization for Human Brain Mapping*, Hawaii, USA, June 2015
- Kim, J.**, Kang, E. Putamen's response to negative feedback is associated with repetition of error. *Society for Neuroscience 43rd annual meeting*, San Diego, USA, November 2013
- Kim, S., **Kim, J.**, and Kang, E. Personality differences in sensitivity to punishment and medio-dorsal thalamic activity after high-penalty. *Society for Neuroscience 43rd annual meeting*, San Diego, USA, November 2013
- Kim, J.**, Kang, H., Kang, E. Different cortical modulatory effects on subcortical regions for reward and penalty processing. *The 16th Annual Meeting of the Organization for Human Brain Mapping*, Barcelona, Spain, June 2010
- Kim, J.**, Na, DL., and Kang, E. Learning-associated reward and punishment processing: an fMRI study. *Society for Neuroscience 39th annual meeting*, Chicago, USA, October 2009.
- Kang, E., **Kim, J.**, and Kim, H. Changes in hippocampal response to cue and feedback during association learning. *The 16th Annual Cognitive Neuroscience Society Meeting*, San Francisco, USA, April 2008.

#### **Domestic:**

- Kang, H., Kim, K.I., **Kim, J.**, and Kim, H. Neural Mechanisms underlying individual differences in others' preference estimation, *Annual Meeting of the Korean Journal of Cognitive and Biological Psychology*, 2023
- Lee, M., **Kim, J.**, and Kim, H. An exploratory study on physiological responses predicting self-protective behavior provoked by social feedback, *Annual Meeting of the Korean Journal of Cognitive and Biological Psychology*, 2022
- Jung H.J., **Kim, J.**, Kim, H., Kang, E. Properties of functional brain networks are related to individual differences in the behavioral approach system (BAS). *Korean Human Brain Mapping*, 2016
- Jung H.J., Kim, H., **Kim, J.**, Kang, E. Individual differences in experience-dependent emotional reactivity - Functional network organization. *Annual Conference of the Korean Psychological Association*, 2015
- Jung H.J., **Kim, J.**, Kang, E. Brain's spontaneous oscillation relates to individual differences in sensitivity of Gray's behavioral system. *Annual Conference of the Korean Psychological Association*, 2015
- Choi H.Y., **Kim, J.**, Kang, E. Ventrolateral prefrontal cortex and individual differences in emotional changes after learning feedback experience: a voxel based morphometry study. *The 52<sup>nd</sup> Korean Journal of Cognitive and Biological Psychology*, 2014
- Jung H.J., **Kim, J.**, Kang, E. Previous feedback experience and personality modulate efficiency of reward feedback processing: fMRI study. *The 52<sup>nd</sup> Korean Journal of Cognitive and Biological Psychology*, 2014
- Kim, J.**, and Kang, E. Neural mechanisms associated with successful negative feedback processing in learning: an event related fMRI study. *The 51<sup>th</sup> Korean Journal of Cognitive and Biological Psychology*, 2013
- Kim, J.**, Na, DL., and Kang, E. Regional gray matter differences associated with individual differences in feedback learning: A voxel-based morphometry study, *2012 Cognitive Neuroscience Conference*, South Korea, 2012.
- Kim, S.H., **Kim, J.**, Kang, E. Intrinsic Functional Connectivity of Caudate for Better Learning. *Conference of Korean Society for Human Brain Mapping*, 2011.
- Yim, Y-K., **Kim, J.**, Kang, E. Effective Connectivity of Associative Memory: Encoding vs. Retrieval. *2011 Cognitive Neuroscience Conference*, South Korea, 2011

- Kim, S.H., **Kim, J.**, Kang, E. Recognition Possibility Modulated Encoding. *The 49<sup>th</sup> Korean Journal of Cognitive and Biological Psychology*, South Korea, 2011
- Kim, J.**, Na, DL., and Kang, E. Neural Substrates of Feedback based learning: fMRI study, *2009 Cognitive Neuroscience Conference*, South Korea, 2009
- Kim, J.**, and Kang, E. Learning-associated reward and punishment processing: an fMRI study. *The 47<sup>th</sup> Korean Journal of Cognitive and Biological Psychology*, South Korea, 2009
- Kim, J.**, Kim, H., Kang, E. Changes in Parahippocampal Feedback Processing in S-R Learning in Human: an Event-Related fMRI Study. *Conference of Korean Society for Human Brain Mapping*, South Korea, 2007

## RESEARCH GRANTS

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- 2023-2023      **Basic Science Research Program through the National Research Foundation of Korea, PI**  
 “An integrated study on the neural mechanism of social decision-making associated with brain-body interaction using multimodal neuroimaging and modulation approaches” (RS-2023-00241694)
- 2020-2023      **Basic Science Research Program through the National Research Foundation of Korea, PI**  
 “A Study of brain mechanisms in social decision making related to depression using neuroimaging and brain stimulation method” (2020R111A1A01070413)

## AWARDS AND FELLOWSHIPS

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- 2018              **Kim Jae-Il Young investigator paper award**  
 Awarded by the Korean Psychological Association
- 2018-2019      **Discovery Fund: Talent Development Competition**  
 Awarded by Centre for Addiction and Mental Health. \$65,000 (CDN).
- 2018              **Mimi and Charles Hollenberg research award**  
 Department of Medicine, University of Toronto  
 2<sup>nd</sup> place in the Reports of research projects of a mechanistic mature category
- 2010-2011      **Full-time excellence graduate student scholarship**  
 Awarded by Kangwon National University, South Korea
- 2008-2009      **Honors scholarships**  
 Awarded by Kangwon National University, South Korea