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RESEARCH POSITIONS

2017 – current Postdoctoral Researcher, Center for Neuroscience, UC Davis
Supervisor: Dr. Charan Ranganath
2015 – 2017 Postdoctoral Researcher, Dept. of Neurosurgery, UTH
Supervisors: Drs. Nitin Tandon & Arne Ekstrom (UC Davis)

EDUCATION

2015 Ph.D. in Psychology (Cognition and Cognitive Neuroscience)
University of Michigan, Ann Arbor
Advisor and committee chair: Dr. Cindy Lustig
Committee co-chair: Dr. Bill Gehring
2012 M.S. Psychology, University of Michigan, Ann Arbor
2006 M.A. Cognitive Psychology, Yonsei University, Seoul
2004 B.A. Cognitive Sciences & Psychology, Yonsei University, Seoul

PUBLICATIONS

Kim, K., Müller, M., Bohnen, N., Sarter, M., & Lustig, C. (*in press*). The cortical cholinergic system contributes to the top-down control of distraction: Evidence from patients with Parkinson's disease. *NeuroImage*.

Karunakaran, S., Rollo, M., **Kim, K.**, Johnson, J., Kalamangalam, G., Aazhang, B., & Tandon, N. (*in press*). The interictal mesial temporal epilepsy network. *Epilepsia*.

Kim, K., Schedlbauer, A., Rollo, M., Karunakaran, S., Ekstrom, A. D., & Tandon, N. (2018). Network-based invasive stimulation: selective impairments of network-specific information retrieval. *Brain Stimulation*, 11(1), 213-221.

Kim, K., Müller, M., Bohnen, N., Sarter, M., & Lustig, C. (2017). Thalamic cholinergic innervation makes a specific bottom-up contribution to signal detection: Evidence from Parkinson's Disease patients with defined cholinergic losses. *NeuroImage*, 149 (1), 295-304.

Kim, K., Ekstrom, A.D., & Tandon, N. (2016). A network approach for modulating memory processes via direct and indirect brain stimulation: Toward a causal approach for the neural basis of memory. *Neurobiology of Learning and Memory*, 134, 162-177.

Moore, B., Bartoli, E., Karunakaran, S., **Kim, K.** (2015). Multisensory integration reveals temporal coding across a human sensorimotor network. *Journal of Neuroscience*, 35(43), 14423-14425.

Kim, K., Carp, J., Fitzgerald, K.D., Taylor, S.F., Weissman, D.H. (2013). Neural congruency effects in the multi-source interference task vanish in healthy youth after controlling for conditional differences in mean RT. *PLoS ONE* 8(4): e60710.

Min, S., **Kim, K.**, Yi, D. -J., & Kim, M. -S. (2013). Working memory load can reduce task-irrelevant processing in human fusiform gyrus. *Korean Journal of Cognitive and Biological Psychology*, 25(1), 1-24.

Carp, J., **Kim, K.**, Taylor, S.F., Fitzgerald, K.D., & Weissman, D.H. (2010). Conditional differences in mean reaction time explain effects of response congruency, but not accuracy, on posterior medial frontal cortex activity. *Frontiers in Human Neuroscience*, 4, 231.

Kim, K., & Kim, M.-S. (2006). What is learned in ignored visual context? *Journal of Vision*, 6(6), 839–839.

Kim, M.-S., Min, S., **Kim, K.**, & Won, B.-Y. (2006). Concurrent working memory load can reduce distraction: An fMRI study. *Journal of Vision*, 6(6), 125–125.

CONFERENCE PRESENTATIONS

- 2017 **Kim, K.**, Ekstrom, A.D., & Tandon, N. Hippocampal theta oscillations differentiate recognition with and without correct source retrieval. *Cognitive Neuroscience Society*, San Francisco, CA.
- Schedlbauer, A., **Kim, K.**, Tandon, N., & Ekstrom, A.D. Modulation episodic memory performance through invasive brain stimulation. ARCS 2017 Symposium, Menlo Park, CA.
- 2016 **Kim, K.**, Karunakaran, S., Ekstrom, A. D., & Tandon, N. Interictal spikes do not disrupt memory retrieval. *American Epilepsy Society*, Houston, TX.
- Kim, K.**, Schedlbauer, A., Rollo, M., Ekstrom, A. D., & Tandon, N. A novel, network-based approach to memory modulation. *Society for Neuroscience*, San Diego, CA.
- 2015 Copara, M., **Kim, K.**, Rollo, M., Kadipasaoglu, C., Tandon, N., & Ekstrom, A. Low frequency hippocampal oscillations differentiate between successful retrieval of related versus unrelated spatiotemporal context. *Society for Neuroscience*, Chicago, IL.
- Schedlbauer, A., Watrous, A., **Kim, K.**, Tandon, N., & Ekstrom, A.D. Dynamic spatiotemporal organization of individual episodic memory retrieval networks in electrocorticography patients. *Society for Neuroscience*, Chicago, IL.
- Kim, K.**, Williams, H., Gehring, W. J., Sarter, M., & Lustig, C. Gamma-band synchrony measures indicate differential prefrontal and parietal contributions to signal detection and top-down control. *Society for Neuroscience*, Chicago, IL.
- Williams, H., **Kim, K.**, Gehring, W. J., & Lustig, C. Individual differences in ERP components associated with signal detection and distractor resistance. *Society for Neuroscience*, Chicago, IL.
- Kim, K.**, Bohnen, N., Müller, & Lustig, C. Cognitive flexibility in Parkinson's disease: compensatory dopaminergic-cholinergic interactions. *Cognitive Neuroscience Society*, San Francisco, CA.
- 2014 **Kim, K.**, Müller, M., Bohnen, N., Sarter, M., & Lustig, C. Regionally-specific correlations between the integrity of the cortical cholinergic input system and vulnerability to attentional distraction in Parkinson's disease. *Society for Neuroscience*, Washington, DC.
- Kim, K.**, Müller, M., Bohnen, N., Sarter, M., & Lustig, C. Vulnerability to distraction in Parkinson's Disease is linked to low cortical cholinergic function. *Cognitive Neuroscience Society*, Boston, MA.
- 2013 **Kim, K.**, Wu, T., Syed, N., Müller, M., Bohnen, N., Sarter, M., & Lustig, C. Spared and impaired aspects of attention in Parkinson's disease: Distractor

vulnerability correlates with lower cortical cholinergic innervation. *Society for Neuroscience*, San Diego, CA.

Lustig, C., **Kim, K.**, Wu, T., Syed, N., Müller, M., Sarter, M., & Bohnen, N. Cholinergic control of attention and resistance to distractors: evidence from Parkinson's disease patients with reduced cortical cholinergic innervation. *Society for Neuroscience*, San Diego, CA.

2012 **Kim, K.**, Carp, J., Fitzgerald, K. D., Taylor, S. F., & Weissman, D. H. Brain activity related to conflict processing vanishes in children with OCD and healthy controls after controlling for the RT-BOLD relationship. *Cognitive Neuroscience Society*, Chicago, IL.

2010 Weissman, D.H., Carp, J., **Kim, K.**, Taylor, S. F., & Fitzgerald, K. D. Do congruency effects in the fronto-parietal network reflect conflict processing or increased time on task? *Society for Neuroscience*, San Diego, CA.

2008 **Kim, K.**, Kim, Y.-J., & Kim, M.-S. Negative priming of ignored context in visual search. *International Conference of Cognitive Sciences*, Seoul.

2006 **Kim, K.**, & Kim, M.-S. What is learned in ignored visual context? *Vision Sciences Society*, Sarasota, FL

Kim, M.-S., Min, S.-J., **Kim, K.**, & Won, B.Y. Concurrent working memory load can reduce distraction: An fMRI study. *Vision Sciences Society*, Sarasota, FL.

TALKS

2013 "Cholinergic modulation of attention and resistance to distractors: Evidence from Parkinson's disease patients with reduced cortical cholinergic innervation", Cognition and Cognitive Neuroscience Forum, Department of Psychology, University of Michigan, Ann Arbor, MI.

2012 "Conflict-related pMFC activity vanishes after controlling for conditional differences in mean RT", Cognition and Cognitive Neuroscience Forum, Department of Psychology, University of Michigan, Ann Arbor, MI.

GRANTS AND AWARDS

2017 Postdoctoral Fellow Award, Cognitive Neuroscience Society

2016 Marquis Award, annual award for best doctoral dissertation in Psychology, University of Michigan

2013 Rackham Graduate Student Research Grant, University of Michigan

2012-2014 Rackham Conference Travel Grant, University of Michigan

2011-2012 GSRA Scholarship, Institute of Human Adjustment, University of Michigan

2010 Rackham Graduate Student Research Grant, University of Michigan

2006 Scholarship for Student Excellence, Yonsei Graduate School

Brain Korea 21st Century Scholarship, National Research Foundation of Korea

TEACHING EXPERIENCE

University of Michigan, Ann Arbor

2014 **SPM Lab** for Training Course in fMRI, Lab Graduate Student Instructor

E-Prime Lab for Training Course in fMRI, Lab Graduate Student Instructor

Introduction to Psychology, Graduate Student Instructor

2010-2011 **Introduction to Cognitive Psychology**, Graduate Student Instructor

Yonsei University, Seoul

2008 **Cognitive Psychology**, Guest lecturer on memory
2005 **Cognitive Psychology**, Teaching Assistant
Experimental Methodology in Psychology, Lab Instructor
2004 **Biological Psychology**, Teaching Assistant
Psychology of Human Behavior, Teaching Assistant

MENTORING

2014-2015 Heather Williams, *Research Scholar Program*
Jennifer Schwank; Nadia Syed; Mominah Farrukh; Inara Ismailova, *Volunteer research assistants*
2013-2014 Heather Williams*, *Undergraduate Research Opportunity Program (UROP)*,
Audrey Gloeckner-Kalousek, *Psych422 Thesis*
Jennifer Schwank, Nadia Syed, Mominah Farrukh, Inara Ismailova, *Volunteer research assistants*
2012-2013 Nadia Syed*, *Undergraduate Research Opportunity Program (UROP)*,
Stephanie Kuipers, *Summer Research Opportunities Program (SROP)*
Mary Hamati; Jennifer Schwank; Tina Wu, *Volunteer research assistants*
2011-2012 Harleen Kaur, Julia Korn, Karin Lavie, Abby Polando, *Volunteer research assistants*

* indicates Winners of the Blue Ribbon Award for the best UROP poster presentation

AD-HOC REVIEWER

Current Biology
NeuroImage
Consciousness and Cognition

SERVICE ACTIVITIES

University of California, Davis

2017-2018 Postdoctoral Research Symposium Organizing Committee (Scientific program)

MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences

2017 GSBS Student Research Day Postdoc poster judge

Cognition and Cognitive Neuroscience, Dept. of Psychology, University of Michigan

Winter 2013 CCN Recruitment Committee

Fall 2012 CCN Forum Committee

Fall 2011 CCN Social Committee

MEMBERSHIPS/AFFILIATIONS

Association for Women in Science (AWIS) Gulf Coast Houston, 2017

Society for Neuroscience, 2013-present

Cognitive Neuroscience Society, 2011-present

Association for Psychological Science, 2010-2014

Vision Science Society, 2006

NON-ACADEMIC WORK EXPERIENCE

2007-2008 Senior Researcher, Media and Advertisement Research Division
Hankook Research, Seoul.