

Curriculum Vitae

Min-Suk Kang

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EDUCATION

2009.05 Ph.D. in Psychology, Vanderbilt University (Advisor, Randolph Blake)
2001.02 B.S. in Astronomy, Seoul National University

EMPLOYMENT

2013.03~Present Assistant Professor, Department of Psychology,
Sungkyunkwan University
2009.05~2012.12 Postdoctoral Fellow, Department of Psychology,
Vanderbilt University (Advisor, Geoffrey F. Woodman)
2009.01~2009.04 Postdoctoral Fellow, Department of Psychology,
Vanderbilt University (Advisor, Randolph Blake)
2001.01~ 2002.04 Research Assistant, Department of Neurology,
Seoul National University Hospital (Advisor, Kyungmin Lee)

PUBLICATION

(* for equal contribution)

Journal Articles

- 1) **Kang, M.-S.**, & Woodman, G.F. (2014). The neurophysiological index of visual working memory maintenance is not due to load dependent eye movements. *Neuropsychologia*. 56, 63-72.
- 2) **Kang, M.-S.**, DiRaddo, A., Logan, G.D., & Woodman, G.F. (2014). Electrophysiological evidence for preparatory reconfiguration before voluntary-task switches but not cue-task switches. *Psychonomic Bulletin & Review*, 21, 454-461.
- 3) Hong, S.-W.* & **Kang, M.-S.*** (2013). Perceptual consequence of normalization revealed by a novel brightness illusion induced by stimulus motion. *Vision Research*. 91, 78-83.

- 4) Williams, M, Hong, S.-W., **Kang, M.-S.**, Carlisle, N., & Woodman, G.F. (2013). The benefit of forgetting. *Psychonomic Bulletin & Review*. 20, 348-355.
- 5) Hong, S.-W., Xu, L., **Kang, M.-S.**, & Tong, F. (2012). The hand-reversal illusion revisited. *Frontiers in Integrative Neuroscience*. 6:83, 1-6.
- 6) Reinhart, M.G., Carlisle, N.B., & **Kang, M.-S.** & Woodman, G.F. (2012). Event-related potentials elicited by errors during the stop-signal task. II: Human effector specific error responses. *Journal of Neurophysiology*. 32, 7711-7722.
- 7) **Kang, M.-S.**, Hong, S. W., Blake, R., & Woodman, G.F. (2011). Visual working memory contaminates perception. *Psychonomic Bulletin & Review*. 18, 860-869.
- 8) **Kang, M.-S.**, Blake, R., & Woodman, G.F. (2011). Semantic analysis does not occur in the absence of awareness induced by interocular suppression. *Journal of Neuroscience*. 31, 13535-13545.
- 9) **Kang, M.-S.** & Blake, R. (2011). An integrated framework for spatiotemporal dynamics of binocular rivalry. *Frontiers in Human Neuroscience*. 5:88, 1-9.
- 10) **Kang, M.-S.**, Lee, S.-H, Kim, J., Heeger, D., & Blake, R. (2010) Modulation of spatiotemporal dynamics of binocular rivalry by collinear facilitation and pattern dependent adaptation. *Journal of Vision*. 10(11):3, 1-15.
- 11) **Kang, M.-S.** & Blake, R. (2010). What causes alternations in dominance during binocular rivalry? *Attention, Perception & Psychophysics*. 72(1), 179-186.
- 12) **Kang, M.-S.**, Heeger, D. & Blake, R. (2009). Periodic perturbations producing phase-locked fluctuations in visual perception. *Journal of Vision*. 9(2):8, 1-12.
- 13) **Kang, M.-S.** (2009). Size matters: A study of the binocular rivalry dynamics. *Journal of Vision*. 9(1):17, 1-17.
- 14) **Kang, M.-S.** & Blake, R. (2008). Enhancement of bistable perception associated with visual stimulus rivalry. *Psychonomic Bulletin & Review*. 15, 586-591.
- 15) Woodman, G., **Kang, M.-S.**, Thompson, K. & Schall, J.D. (2008). The effect of visual search efficiency on response preparation: Neurophysiological evidence for discrete flow. *Psychological Science*. 19, 128-136.
- 16) Woodman, G., **Kang, M.-S.**, Rossi, A.F. & Schall, J.D. (2007). Nonhuman primate event-related potentials indexing covert shifts of attention. *Proceedings of the National Academy of Sciences, USA*. 104, 15111-15116.
- 17) **Kang, M.-S.** & Blake, R. (2005). Perceptual synergy between seeing and hearing revealed during binocular rivalry. *Psychologija*. 32, 7-15.

Commentaries

- 1) **Kang, M.-S.**, Blake, R., & Woodman, G.F. (2012) Defining characteristics of visual awareness and event-related potentials indexing semantic processing. Author Response to Heyman and Moore. *Journal of Neuroscience*. Online only.

Manuscripts in progress

- 1) Yang, E, Brascamp, J, **Kang, M.-S.** & Blake, R. (under review) A useful approach toward using CFS for the study of visual processing outside of awareness

- 2) Fukuda, K., Woodman, G.F., & **Kang, M.-S.** (in preparation). The contralateral alpha-band suppression does not represent visual working memory
- 3) **Kang, M.-S.**, & Woodman, G.F. (in preparation) Phase coherence reflects preparatory reconfiguration in voluntary task switching.
- 4) **Kang, M.-S.** & Choi, J (in preparation) Retrieval induced working memory distortion

AWARD

- 1) 2013.05~2016.05. Career Development Award in Humanity and Social Science from National Research Foundation of Korea. (\$60,000 for 3 years)
- 2) 2008.05. Vision Science Society Student Travel Award

TEACHING EXPERIENCE

	Brain, Mind and Behavior (Cognitive Neuroscience)
Undergraduate	Learning and Memory Perception
Graduate	Advanced Experimental Psychology Introduction to Programming for Psychological Research I

JOURNAL REVIEWER (Ad Hoc)

Attention Perception & Psychophysics – Consciousness & Cognition – European Journal of Neuroscience – International Journal of Psychophysiology – Journal of Experimental Psychology: Learning, Memory & Cognition – Journal of Vision – Journal of Neurophysiology – Korean Journal of Cognitive Sciences – Korean Journal of the Science of Emotion and Sensibility – Memory & Cognition – Neuropsychologia – Perception – Psychonomic Bulletin & Review – PLoS ONE – Psychological Science – Vision Research

MEETING PRESENTATION

(List maybe incomplete)

- 1) Jung, Y., Kang, M.-S. & Chong, S.C. (2014). Effect of attention on the initiation of binocular rivalry. Meeting of the Vision Science Society, Tempa, FL.
- 2) Hong, S.-W. & Kang, M.-S. (2014). Temporal dynamics of brightness induction from motion in context. Meeting of the Vision Science Society, Tempa, FL.
- 3) Hong, S.-W. & Kang, M.-S. (2013). Large shift in color appearance induced by motion in context. Meeting of the Vision Science Society, Napels, FL.

- 4) Kang, M.-S., & Woodman, G.F. (2013). The CDA is insensitive to the involuntary, miniature gaze-shifts induced by number of items to remember. Meeting of the Vision Science Society, Naples, FL.
- 5) Kang, M.-S., & Woodman, G.F. (2012). Enhanced β and γ band phase coherence between hemispheres during visual working memory encoding. The Society for Neuroscience. New Orleans, LA.
- 6) Kang, M.-S. & Woodman, G.F. (2012). Visual working memory still contaminates perception. The Portland Working Memory Workshop. Portland, OR.
- 7) Hong, S.-W. & Kang, M.-S. (2012). Perceptual consequence of normalization revealed by a novel brightness illusion. Meeting of the Vision Science Society, Naples, FL.
- 8) Kang, M.-S., DiRaddo, A., Logan, G., & Woodman, G.F. (2011). Electrophysiological evidence for preparatory reconfiguration before voluntary-task switches but not cue-task switches. The Society for Neuroscience. Washington D.C.
- 9) Kang, M.-S., Blake, R., & Woodman, G.F. (2011). Semantic analysis does not occur in the absence of awareness during interocular suppression. Meeting of the Vision Science Society, Naples, FL.
- 10) Woodman, G.F., Arita, J.T., Pardo, D., Carlisle, N.B., Williams, M., & Kang, M.-S. (2010). Covert attentional selection in monkey and man: Bridging the gap reveals underlying neural circuitry. The Society for Neuroscience Annual Meeting. San Diego, CA.
- 11) Kang, M.-S., & Woodman, G.F. (2010). Interactions between motion perception and visual working memory. Meeting of the Vision Sciences Society, Naples, FL.
- 12) Woodman, G.F., Heitz, R.P., Cohen, J.Y., Arita, J.T., Kang, M.-S., & Schall, J. (2009). Covert attentional selection in monkey and man: Bridging the gap reveals underlying neural circuitry. Meeting of the Psychonomic Society, Boston, MA.
- 13) Kang, M.-S., & Blake, R. (2008). A novel technique for generating perceptual waves during binocular rivalry and binocular fusion. Meeting of the Vision Sciences Society, Naples, FL.
- 14) Woodman, G.F., Kang, M.-S., St. Clair, R., & Schall, J. (2008). Increases in gamma-band activity do not predict spatial working memory retention in macaque monkeys. Meeting of the Vision Sciences Society, Naples, FL.
- 15) Kang, M.-S., Schall, J.D. & Woodman, G.F. (2006). Electroencephalographic and local-field potential gamma band activity is not reliably observed during spatial working memory maintenance in macaque monkeys. The Society for Neuroscience. Atlanta, GA.
- 16) Woodman, G.F. Kang, M.-S., Sato, T., Thompson, K., & Schall, J.D. (2006). Visual search efficiency modulates the onset of response preparation: Neurophysiological evidence for discrete flow. The Society for Neuroscience. Atlanta, GA.
- 17) Emeric, E.E., Pouget, P., Leslie, M., Woodman, G.F., Kang, M.-S., & Schall, J.D. (2006). Anterior cingulate local field potential delta and theta frequency bands are modulated by countermanding errors. The Society for Neuroscience. Atlanta, GA.
- 18) Kang, M.-S. & Blake, R. (2006). How to enhance the incidence of stimulus rivalry. Meeting of the Vision Sciences Society, Sarasota, FL.

- 19) Woodman, G.F. Kang, M.-S., Rossi, A.F., & Schall, J.D. (2005). Comparative psychophysiology: Macaque event-related potentials reveal anticipatory and stimulus-evoked components similar to those observed in humans. The Society for Neuroscience, Washington, D.C.
- 20) Kang, M.-S., Blake, R., & Schall, J.D. (2004). What causes alternations during binocular rivalry? The Society for Neuroscience, San Diego, CA.