

Sam Ling

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Employment & Education:

2014 – present	Boston University, Dept. of Psychological & Brain Sciences	Assistant Professor
2014 – present	Donders Institute for Brain, Cognition & Behavior	Research Fellow
2007 – 2013	Vanderbilt University	Postdoc – Psychology
2001 – 2007	New York University	Ph.D. – Psychology
1997 – 2001	Pennsylvania State University	B.S. – Psychology

Awards & Honors:

2015 –	Peter Paul Career Development Professorship
2015 –	Hariri Center for Computational Science & Engineering Research Fellowship
2009 – 2010	NIH NRSA Kirchstein Postdoctoral Fellowship, <i>NIH</i>
2007 – 2009	VVRC Training Grant, Vanderbilt University, <i>NIH</i>
2007	Vision Sciences Society Travel Award, <i>Elsevier</i>
2006	Rauschholzhausen Fellowship in Neuroscience, <i>Volkswagen</i>
2005	Katzell Fellowship, <i>New York University</i>
2004 – 2007	NIH NRSA Kirchstein Predoctoral Fellowship, <i>NIH</i>

Publications:

- Kim, D, Ling, S & Watanabe, T. (In Press). Dual mechanisms governing reward-driven perceptual learning. *F1000 Research*.
- Ling, S., Pratte, M.S. & Tong, F. (2015). Attention alters orientation processing in the human lateral geniculate nucleus. *Nature Neuroscience*. 18, 496–498.
- Ling, S., Jehee, J.F.M. & Pestilli, F. (2014). A review of the mechanisms by which attention shapes selectivity. *Brain Structure and Function*.
- Pratte, M.S., Ling, S., Swisher, J.D. & Tong, F. (2013). How attention extracts objects from noise. *Journal of Neurophysiology*. 110(6) 1346-1356.
- Jehee, J.F.M, Ling, S., Swisher, J., van Bergen, R., and Tong, F. (2012) Perceptual learning selectively refines orientation representations in early visual cortex. *Journal of Neuroscience*. 32(47), 16747–16753.
- Ling, S. & Blake, R. (2012). Normalization regulates competition for visual awareness. *Neuron*. 75, 533–542.
- Ling, S., Hubert-Wallander, B. & Blake, R. (2010). Detecting changes in invisible patterns during binocular rivalry. *Vision Research*. 50(23), 2421-2429.
- Ling, S. & Blake, R. (2009). Suppression during binocular rivalry broadens orientation tuning. *Psychological Science*. 20(11), 1348 - 1355.
- Ling, S., Pearson, J. & Blake, R. (2009). Dissociation of neural mechanisms underlying orientation processing in humans. *Current Biology*. 19(17), 1458-1462.
- Pestilli, F., Ling, S. & Carrasco, M. (2009). A population-coding model of attention's influence on contrast response: estimating neural effects from psychophysical data. *Vision Research*. 49, 1144-1153.

- Ling, S., Liu, T. & Carrasco, M. (2009). How spatial and feature-based attention affect the gain and tuning of population responses. *Vision Research*. 49, 1194-1204.
- Carrasco, M., Fuller, S. & Ling, S. (2008). Transient attention does increase perceived contrast of suprathreshold stimuli: A reply to Prinzmetal, Long and Leonhardt (2008). *Perception & Psychophysics*. 70. 1151-1164.
- Ling, S. & Carrasco, M. (2007). Transient covert attention does alter appearance: a reply to Schneider (2006). *Perception & Psychophysics*. 69(6), 1051-1058.
- Ling, S. (2007). "Attention Must Be Paid." In Mind Matters, the Scientific American blog on science and mind. [Invited Contribution]. <http://www.scientificamerican.com/blog/post/attention-must-be-paid/>
- Ling, S. & Carrasco, M. (2006). When sustained attention impairs perception. *Nature Neuroscience*. 9, 1243-1245.
- Phelps, E., Ling, S. & Carrasco, M. (2006). Emotion facilitates perception and boosts the perceptual benefits of attention. *Psychological Science*. 17(4), 292-299.
- Ling, S. & Carrasco, M. (2006). Sustained and transient covert attention enhance the signal via different contrast response functions. *Vision Research*. 46, 1210-1220.
- Carrasco, M., Ling, S. & Read, S. (2004). Attention alters appearance. *Nature Neuroscience*. 7, 308-313.

Invited talks:

- Bloem, I. & Ling, S. (2015). Attentional gain modulation relies on local feature-tuned normalization. Society for Neuroscience. San Diego, CA.
- Kim, D., Lokey, S., Guo, J., Pestilli, F., Ling, S. (2015). Human visual response gain increases with arousal. Vision Sciences Society, FL.
- Ling, S. (2014). Attention alters orientation processing in the human LGN. New York University.
- Ling, S. (2014). Attention alters orientation processing in the human LGN. Harvard University.
- Ling, S. (2014). Attention alters orientation processing in the human LGN. Brigham & Women's Hospital.
- Ling, S. (2014). The flexibility of perception. University of Massachusetts, Boston.
- Ling, S. Pratte, M. & Tong, F. (2013). Attention alters orientation processing in the human LGN. Society for Neuroscience. San Diego, CA.
- Ling, S. (2013). Mechanisms of visual competition. Boston University.
- Ling, S. (2013). The formation and flexibility of perception. University of Massachusetts, Amherst.
- Ling, S. (2013). Mechanisms of visual competition. University of Nevada, Reno.
- Ling, S. (2012). Attention alters appearance. Vision Sciences Society, FL.
- Ling, S. (2012). The flexibility of perception. Donders Institute.
- Ling, S. (2012). The formation and flexibility of perception. University of South Carolina.
- Ling, S. (2011). The formation and flexibility of perception. University of Arizona.
- Ling, S. (2006). How attention affects vision. Johns Hopkins University.
- Ling, S. & Carrasco, M. (2006). When sustained attention impairs contrast sensitivity. Vision Sciences Society, Sarasota, FL.

Teaching Experience:

- 2014-2015 Lecturer (*General Psychology*) - Boston University
- 2012 Guest Lecturer (*Cognitive Neuroscience*) - Vanderbilt University
- 2012 Guest Lecturer (*Seminar in Social Neuroscience*) - Vanderbilt University
- 2011 Guest Lecturer (*Neuroscience Seminar*) - Vanderbilt University
- 2003 Teaching Assistant (*Lab in Perception*) - New York University

2001 Teaching Assistant (*Introductory Psychology*) - New York University
2001 Teaching Assistant (*Perception*) - New York University

Professional services:

Ad hoc reviews: Journal of Neuroscience, Neuroimage, Journal of Cognitive Neuroscience, Psychological Science, Frontiers in Computational Neuroscience, Psychonomic Bulletin & Review, Journal of Experimental Psychology: General, Emotion, Cognition, Vision Research, Journal of Vision, Perception, Attention, Perception & Psychophysics, PLOS One

Ad-hoc grant reviews: National Science Foundation, Netherlands Organization for Scientific Research