

Vita of Jocelyn L. Sy

Education & Training:

2005-2011 Ph.D in Psychology doctorate program,
Cognitive, Perceptual, and Cognitive Neurosciences
University of California, Santa Barbara

Dissertation title: *Top-down influences in selection and distraction: Load Theory revisited.*
Advisor: Dr. Barry Giesbrecht

2003 B.S. Psychology with Honors,
University of California, Davis

Appointments:

2011-present Post-doctoral research associate
Advisor: Dr. Frank Tong
Vanderbilt University, Nashville, TN

2005 Junior Specialist II, Dr. Barry Giesbrecht, Department of Psychology, University of California, Santa Barbara

2003-2005 Postgraduate Researcher I & II, Drs. G. Ron Mangun and Tamara Swaab, Center for Mind and Brain, University of California, Davis

Awards:

2012-present NIH Institutional Research Training Grant, Vanderbilt Vision Research Center, 5T32EY007135-18

2011 Graduate Division Dissertation Fellowship, University of California, Santa Barbara

2008 Summer Institute in Cognitive Neuroscience, Lake Tahoe, California, fellowship

2007 Summer Institute in Cognitive Neuroscience, University of California, Santa Barbara fellowship

Manuscripts in preparation

Sy, J.L., Guerin, S.A, Stegman, A., & Giesbrecht, B. (in prep). Expecting difficulty: Top-down influences on perceptual distraction.

Sy, J.L., & Giesbrecht, B. (in prep). Intertrial switch costs on postperceptual processing during the attentional blink.

Published Articles:

Giesbrecht, B., Sy, J.L., Elliott, J. (2007). Electrophysiological evidence for both perceptual and post-perceptual selection during the attentional blink. *Journal of Cognitive Neuroscience*, 19(12), 2005-2018.

Giesbrecht, B., Sy, J.L., Lewis, M. (2009). Personal names do not always survive the attentional blink: Behavioral evidence for a flexible locus of selection. *Vision Research*, 49(10), 1378-1388.

Sy, J.L., & Giesbrecht, B. (2009). Task-relevance modulates the influence of target similarity on the attentional blink. *Visual Cognition*, 17(3), 307-317.

Peterson, M.P., Das, K., Sy, J.L., Li, S., Giesbrecht, B., Kourtzi, Z., & Eckstein, M.P. (2010). Ideal observer analysis for task normalization of pattern classifier performance applied to EEG and fMRI data. *Journal of the Optical Society of America A: Optics, image science, and vision*, 27(12), 2670-2683.

Kyllingsbæk, S., Sy, J.L., & Giesbrecht, B. (2011). Understanding the allocation of attention when faced with varying perceptual load in partial report: A computational approach. *Neuropsychologia*, 46, 1487-1497.

Cecotti, H., Sato-Reinhold, J., Sy, J.L., Elliott, J.C., Eckstein, M.P., Giesbrecht, B., (2011). Impact of target probability on single-trial EEG target detection in a difficult rapid serial visual presentation task. *Engineering in Medicine and Biology Society, EMBC, 2011 Annual International Conference of the IEEE*, 6381-6384,

Eckstein, M.P., Das, K., Pham, B.T., Peterson, M.F., Abbey, C.K., Sy, J.L., & Giesbrecht, B. (2012). Neural decoding of collective wisdom with multi-brain computing. *Neuroimage*, 59, 94-108.

Giesbrecht, B., Sy, J.L., Guerin, S.A. (2012). Both memory and attention systems contribute to visual search for targets cued by implicit learned context. *Vision Research*, available online, doi: 10.1016/j.visres.2012.10.006.

Recent Conference Presentations:

Sy, J., Ristic, J., & Giesbrecht, B. (2009). Top-down modulation of reflexive social orienting. Poster presented at the Annual meeting of the Vision Science Society.

Sy, J., & Giesbrecht, B. (2010). fMRI evidence for top-down influences on perceptual distraction. Poster presented at the Annual meeting of the Vision Science Society.

Sy, J., & Giesbrecht, B. (2010). Intraparietal sulcus involvement in top-down modulations of visual cortex and behavioral distraction. Poster presented

at the Annual meeting for the Society for Neuroscience.
Cecotti, H., Sato-Reinhold, J., Sy, J.L., Eckstein, M.P., & Giesbrecht., B. (2011). Using single-trial EEG to detect targets with unknown stimulus onsets. Poster presented at the annual meeting for the Society for Neuroscience.

Talks and presentations:

Sy, J., & Giesbrecht, B. (2009). fMRI evidence for expectation-based modulations of perceptual distraction. Talk presented at the annual meeting for the Society for Neuroscience.

Sy, J.L., Guerin, S.A., Stegman, A.C., & Giesbrecht, B. (2011). fMRI and ERP evidence that predictive load cues modulate the susceptibility to perceptual distraction. Talk presented at the annual meeting for the Society for Neuroscience.

Sy, J.L., Jehee, J., Tong, F. (January, 2013). Object-based vs. Feature-based Selection: Perceptual load and irrelevant features. Invited speaker for a PhD workshop on “Perceptual Load and Attention” at the Department of Psychology, at the University of Copenhagen, Copenhagen, Denmark.

Related Professional Experience:

2002-2003 Undergraduate Research Assistant, Dr. Richard Robins, Department of Psychology, University of California, Davis
2001-2002 Undergraduate Research Assistant, Dr. Stanley Sue, National Research Center for Asian American Mental Health, University of California, Davis

Teaching Experience:

Courses

2009 Summer	Teaching Assistant, Lab in Advanced Research
2009 (Winter), 2010 (Spring)	Teaching Assistant, <i>Laboratory in Attention</i>
2008 (Winter)	Teaching Assistant, <i>Auditory Perception</i>
2007, 2008, 2009	Teaching Assistant, <i>Laboratory in Perception</i>
2007 (Winter, Fall)	Teaching Assistant, <i>Visual Perception</i>
2006 (Fall), 2008 (Fall), 2009 (Winter)	Teaching Assistant, <i>Introduction to Statistics</i>
2006 (Winter)	Teaching Assistant, <i>Contemporary Issues in Biopsychology: Attention and the Brain</i>
2006 (Winter)	Teaching Assistant, <i>Graduate Seminar: Human Electrophysiology</i>
2005 (Fall), 2006 (Spring), 2010 (Fall)	

Teaching Assistant, *Introduction to Psychology*

Society Memberships:

- 2009-present *Society for Neuroscience*
- 2005-present *Vision Sciences Society*
- 2004-2005 *Cognitive Neuroscience Society*
- 2002-present *Psi Chi National Honors Society*