

# Curriculum Vitae

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### *Education*

2007-present	<b>Postdoc</b>	Center for Mind & Brain, UC davis Advisor: Dr. Steve Luck
2007	<b>Ph.D.</b>	University of Iowa, Department of Psychology Advisor: Dr. Steve Luck, Dr. Andrew Hollingworth
2000	<b>M.S.</b>	Beijing University, P. R. China, Department of Psychology Advisor: Dr. Zheng Shen
1997	<b>B.S.</b>	NANKAI University, P. R. China, Department of Chemistry Advisors: Dr. Shaofan Lin and Dr. Shixiong Tang

### *Professional Experience*

Fall 2006	<b>Teaching Assistant</b> , undergraduate course <i>Experimental Psychology II</i> Instructor: Andrew Hollingworth, Department of psychology, University of Iowa
Fall 2005	<b>Teaching Assistant</b> , undergraduate course <i>Sensation &amp; Perception</i> Instructor: Andrew Hollingworth, Department of psychology, University of Iowa
2000- 2002	<b>Research Assistant</b> Lab of Prof. Anne Treisman, Department of Psychology, Princeton University

### *Academic Training*

July, 2005	ERPs Boot Camp, Dr. Steve Luck, University of Iowa, Department of Psychology
September, 2001	EMSE WORKSHOP 2001, Source Signal Imaging, Inc. & Center for the Study of Brain, Mind and Behavior, Princeton University
October, 2001	BrainVoyager Training Course, Brain Innovation B.V.& Center for the Study of Brain, Mind and Behavior, Princeton University
July, 2001	The first annual fMRIDC Summer Workshop in fMRI Informatics, National fMRI Data Center, Dartmouth College
July, 1997	Summer Workshop in Cognitive Neuroscience, Cognitive Neuroscience Lab, Peking University & National Educational Administration of China

## ***Journal Articles and Book Chapters***

1. Gold, J. M., Hahn, B.<sup>a</sup>, **Zhang, W.**<sup>a</sup>, Robinson, B. M., Kappenman, E. S., Beck, V. M., et al. (In press). Reduced capacity but spared precision and maintenance of working memory representations in schizophrenia. *Archives of General Psychiatry*. (<sup>a</sup> These authors contributed equally to the manuscript and are listed alphabetically)
1. **Zhang, W.**, Johnson, J. S., Woodman, G. F., & Luck, S. J. Features and conjunctions in visual working memory.(in press). Features and conjunctions in visual working memory. In J. Wolfe & L. Robertson (Eds.), *From Perception to Consciousness: Searching with Anne Treisman*. New York: Oxford University Press.
2. **Zhang, W.**, & Luck, S. J. (2009). Sudden Death and Gradual Decay in Visual Working Memory. *Psychological Science*, 20(4), 423-428.

### **Media highlights**

- a. UC Davis Press release, see [UCD News](#)
- b. Featured in [Scientific American Mind](#)
3. **Zhang, W.**, & Luck, S. J. (2009). Feature-Based Attention Modulates Feedforward Visual Processing. *Nature Neuroscience*, 12(1):24-25.
4. **Zhang, W.**, & Luck, S. J. (2008). Discrete Fixed-Resolution Representations in Visual Working Memory. *Nature*, 453(7192), 233-235.

### **Media highlights**

- a. Highlighted in Nature Review Neuroscience, see [Nature Review Neuroscience](#)
- b. UC Davis Press release, see [UCD News](#)
- c. Featured on Nature's Neuroscience Podcast, see [Neuropod](#)
5. Treisman, A., & **Zhang, W.** (2006). Location and binding in visual working memory. *Mem Cognit*, 34(8), 1704-1719.
6. Hollingworth, A., Hyun, J. S., & **Zhang, W.** (2005). The role of visual short-term memory in empty cell localization. *Percept Psychophys*, 67(8), 1332-1343
7. Shen, Z., **Zhang, W.**, & Chen, Y. (2002). The hole precedence in face but not figure discrimination and its neuronal correlates. *Vision Res*, 42(7), 873-882.
8. Chen, Y., **Zhang, W.**, & Shen, Z. (2002). Shape predominant effect in pattern recognition of geometric figures of rhesus monkey. *Vision Res*, 42(7), 865-871.
9. **Zhang, W.**, Chen, Y., & Shen, Z. (2001). From Module to Mosaic: Neural Substrate of Special Visual Processing. *ACTA PSYCHOLOGICA SINICA*, 33(2), 182-188.

## ***Manuscript under preparation***

1. **Zhang, W.**, & Luck, S. J. Direct evidence for binding in visual working memory. (Manuscript under preparation)
2. **Zhang, W.**, & Luck, S. J. Limited capacity of visual working memory and decisional noise: A Signal Detection Theory approach. (Manuscript under preparation)
3. **Zhang, W.**, & Luck, S. J. Discrete working memory representations. (Manuscript under preparation)
4. **Zhang, W.**, & Luck, S. J. Is Visual Working Memory Capacity an Illusion? (Manuscript under preparation)

## ***Conference Presentations***

1. Zhang, W., & Luck, S. J. (2009). *Visual Working Memory and Conscious Awareness*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA (March 2009).
2. Hahn, B., Zhang, W., Robinson, B.M., Kappenman, E.S., Beck, V.M., Luck, S.J., Gold, J.M. (2009). *Impaired capacity but preserved precision of visual short-term memory in schizophrenia*. Platform presentation, International Congress on Schizophrenia Research. *Schizophrenia Bulletin* 35, Suppl 1. ID: 548429

3. Zhang, W., & Luck, S. J. (2008b). *Sudden Death For Overtime Memories*. Paper presented at the Annual Meeting of the Vision Sciences Society, Naples, FL (May 2008).
4. Zhang, W., & Luck, S. J. (2008a). *Direct Evidence for Feature Binding in Visual Working Memory*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA (April 2008).
5. Zhang, W., & Luck, S. J. (2007b). *Discrete Fixed-Resolution Representations in Visual Working Memory*. Paper presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA (November 2007).
6. Zhang, W., & Luck, S. J. (2007a). *Is Visual Working Memory Consolidation a Continuous or Discrete Process?* Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL (May 2007).
7. Zhang, W., & Luck, S. J. (2005). *Effects of color-based selective attention on feedforward sensory processing*. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL (May 2005).
8. Luck, S. J., & Zhang, W. (2004). *Fixed resolution, slot-like representations in visual working memory*. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL (May 2004).
9. Zhang, W., & Luck, S. J. (2004b). *The time course of color-based selective attention*. Paper presented at the Annual Meeting of the Society for Neuroscience, Washington, DC (October 2004).
10. Zhang, W., & Luck, S. J. (2004a). *Do Representations Decay in Visual Working Memory?* Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL (May 2005).
11. Luck, S. J., & Zhang, W. (2003). *Slot-Like Versus Continuous Representations in Visual Working Memory*. Paper presented at the Annual Meeting of the Psychonomic Society, Vancouver, BC (November 2003).
12. Zhang, W., & Luck, S. J. (2003). *Slot-like versus continuous representations in visual working memory*. Paper presented at the Annual Meeting of the Vision Sciences Society, Sarasota, FL (May 2003).
13. Shen, Z., Chen, Y., & Zhang, W. (2000). Distribution of the cells sensitive to local features of face draws and geometric shapes in monkey temporal cortex. *International Journal of Psychology*, 35(3-4), 286-286.
14. Zhang, W., & Shen, Z. (1999). *Holistic Face Representation Based on Encoding of Topological Features*. Paper presented at the Congress of Chinese Society for Neuroscience, Beijing, China.

## ***Ad Hoc Reviewer***

Nature

Science

Proceedings of National Academy of Sciences

Psychological Science

Journal of Cognitive Neuroscience

Cerebral Cortex

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception and Performance

Journal of Experimental Psychology: Learning, Memory, and Cognition

Psychonomic Bulletin & Review

Journal of vision

Cognition

Psychological research

Psychophysiology

Behavior Research Methods