

**Yaoda Xu: Curriculum Vita**  
(Updated July 20, 2018)

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**Personal Data**

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Citizenship: China  
Immigration Status: US permanent resident

**Degrees and Education**

- 1995 – 2000 Ph.D. in Cognitive Neuroscience, Dept. of Brain & Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts (Advisors: Mary Potter and Suzanne Corkin)  
1992 – 1995 BA in Biology with minor in Psychology, Elms College, Chicopee, Massachusetts  
1989 – 1992 Undergraduate studies in Solid State Physics, Fudan University, Shanghai, China

**Professional Experience**

- 2018 - now Senior research scientist, Psychology Department, Yale University  
2014 - 2018 Associate professor, Psychology Department, Harvard University  
2008 - 2014 Assistant professor, Psychology Department, Harvard University  
2004 - 2008 Associate research scientist, Psychology Department, Yale University (Advisor: Marvin Chun).  
2001 - 2003 Postdoctoral fellow, Vision Sciences Laboratory, Psychology Department, Harvard University (Advisor: Ken Nakayama), and Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology (Advisor: Nancy Kanwisher)

**Research Grants, Honors and Fellowships**

- 2012-2016 “Representing object ensembles in the human brain: Where, when and what”  
National Eye Institute, National Institutes of Health (1R01EY022355)  
PI: Yaoda Xu  
Total amount: \$1,267,500
- 2012 “The role of human parietal cortex in visual object representation”  
Mind/Brain/Behavior Faculty Award, Harvard University  
PI: Yaoda Xu & Lorella Battelli  
Total amount: \$30,000
- 2012 “The representation of object parts and configurations in the human brain”  
Milton Fund, Harvard University  
PI: Yaoda Xu  
Total amount: \$39,438

- 2007-2011 “Understanding the role of the parietal cortex in visual object grouping and feature binding”  
National Science Foundation, Program in Cognitive Neuroscience (NSF 0719975 & 0855112)  
PI: Yaoda Xu  
Total amount: \$525,000
- 2005-2008 “The neural representation of object part configuration”  
National Science Foundation, Program in Cognitive Neuroscience (NSF 0518138)  
PI: Yaoda Xu  
Total amount: \$494,988
- 2000-2003 “Objects through the eyes of visual Short-term memory”  
McDonnell-Pew Investigator Initiated Grant Award in Cognitive Neuroscience (JSMF 2002045)  
PI: Yaoda Xu  
Total amount: \$150,000.
- 1995-1998 McDonnell-Pew Foundation Graduate Fellow  
1992-1995 National Deans List  
1995 National Catholic Universities and Colleges Honored Society  
1992-1995 Elms College Humanitarian Scholarship  
1989-1992 Fudan University Scholarship for Students with Academic Excellency

### **Research Interests**

Cognitive neuroscience of vision and cognition

Areas of expertise: Visual object processing  
Visual working memory  
Visual Attention

Methods used: Functional magnetic resonance imaging (fMRI)  
Behavioral method  
Neuropsychological patient work

### **Publications in Reverse Chronological Order**

- Xu, Y. (in press). The posterior parietal cortex in adaptive visual processing. *Trends in Neuroscience*.
- Xu, Y. (in press). A tale of two visual systems: Invariant and adaptive visual information representations in the primate brain. *Annual Review in Vision Science*.
- Vaziri-Pashkam, M. & Xu, Y. (in press). An information-driven two-pathway characterization of occipito-temporal and posterior parietal visual object representations. *Cerebral Cortex*.
- Ross, D.A., Tamber-Rosenau, B.J., Palmeri, T.J., Zhang, J., Xu, Y., Gauthier, I. (2018). High resolution fMRI reveals configural processing of cars in right anterior fusiform face area of car experts. *Journal of Cognitive Neuroscience* 30, 973–984.

- Xu, Y. (2018). Sensory cortex is nonessential in working memory storage. (A reply to commentaries). *Trends in Cognitive Science* 22, 192-193.
- Xu, Y. (2017). Reevaluating the sensory account of visual working memory storage. *Trends in Cognitive Science*, 21, 794–815.
- Vaziri-Pashkam, M. & Xu, Y. (2017). Goal-directed visual processing differentially impacts human ventral and dorsal visual representations. *Journal of Neuroscience* 37, 8767–8782.
- Jeong, S.K. & Xu, Y. (2017). Task-context dependent linear representation of multiple visual objects in human parietal cortex. *Journal of Cognitive Neuroscience* 29, 1778–1789.
- Cant, J. S. & Xu, Y. (2017). The contribution of object shape and surface properties to object-ensemble representation in anterior-medial ventral visual cortex. *Journal of Cognitive Neuroscience*, 29, 398–412.
- Bettencourt, K. & Xu, Y. (2016). Understanding location- and feature-based processing along the human intraparietal sulcus. *Journal of Neurophysiology*, 116, 1488–1497.
- Jeong, S. K. & Xu, Y. (2016). The impact of top-down spatial attention on laterality and hemispheric asymmetry in the human parietal cortex. *Journal of Vision*, 16(10):2, 1–21.
- Jeong, S. K. & Xu, Y. (2016). Behaviorally relevant abstract object identity representation in the human parietal cortex. *Journal of Neuroscience*, 36, 1607–1619.
- Bettencourt, K. C. & Xu, Y. (2016). Decoding the content of visual short-term memory under distraction in occipital and parietal areas. *Nature Neuroscience*, 19, 150–157.
- Cant, J. S. & Xu, Y. (2015). The impact of density and ratio on object-ensemble representation in human anterior-medial ventral visual cortex. *Cerebral Cortex*, 25, 4226–4239.
- Cant, J. S., Sun, S. & Xu, Y. (2015) Distinct cognitive mechanisms involved in the processing of single objects and object ensembles. *Journal of Vision*, 15(4):12, 1–21.
- Xu, Y. & Jeong, S. (2015). The contribution of human superior intra-parietal sulcus to visual short-term memory and perception. In: *Mechanisms of Sensory Working Memory: Attention and Performance XXV*, Jolicoeur, P. and Martinez-Trujillo, J. (eds.), 33–42.
- Zhang, J., Liu, Y., & Xu, Y. (2015). Neural decoding reveals impaired face configural processing in the right fusiform face area of individuals with developmental prosopagnosia. *Journal of Neuroscience*, 35, 1539–1548.
- Xu, Y. (2014). Inferior frontal junction biases perception through neural synchrony. *Trends in Cognitive Sciences*, 18, 447–448.
- Poltoratski, S. & Xu, Y. (2013). The association of color memory and enumeration of multiple spatially overlapping sets. *Journal of Vision*, 13(8):6, 1–11.
- Bettencourt, K. & Xu, Y. (2013). The role of transverse occipital sulcus in scene perception and its relationship to object individuation in inferior intraparietal sulcus. *Journal of Cognitive Neuroscience*, 25, 1711–1722.
- Jeong, S. & Xu, Y. (2013). Neural representation of targets and distractors during object individuation and identification. *Journal of Cognitive Neuroscience*, 25, 117–126.
- Cant, J. S. & Xu, Y. (2012). Object ensemble processing in human anterior-medial ventral visual cortex. *Journal of Neuroscience*, 32, 7685–7700.
- Xu, Y. (2010). The impact of item clustering on visual search: It all depends on the nature of the visual search. *Journal of Vision*, 10(14):24, 1–9.
- Xu, Y. (2010). The neural fate of task-irrelevant features in object-based processing. *Journal of Neuroscience*, 30, 14020–14028.
- Bi, Y., Xu, Y., & Caramazza, A. (2009). Orthographic and phonological effects in the picture word interference paradigm: Evidence from a logographic language. *Applied Psycholinguistics*, 30, 637–658.

- Xu, Y. & Chun, M. M. (2009). Selecting and perceiving multiple visual objects. *Trends in Cognitive Sciences*, 13, 167–174.
- Xu, Y. (2009). Distinctive neural mechanisms supporting visual object individuation and identification. *Journal of Cognitive Neuroscience*, 21, 511–519.
- Xu, Y. (2008). Representing connected and disconnected shapes in human inferior intra-parietal sulcus. *Neuroimage*, 40, 1849–1856.
- Xu, Y. & Chun, M. M. (2007). Visual grouping in human parietal cortex. *Proceedings of the National Academy of Sciences, USA*, 104, 18766–18771.
- Xu, Y. & Nakayama, K. (2007). Visual short-term memory benefit for objects on different 3-D surfaces. *Journal of Experimental Psychology: General*, 136, 653–662.
- Xu, Y. (2007). The role of the superior intraparietal sulcus in supporting visual short-term memory for multifeature objects. *Journal of Neuroscience*, 27, 11676–11686.
- Xu, Y., Turk-Browne, N. B., & Chun, M. M. (2007). Dissociating task performance from fMRI repetition attenuation in ventral visual cortex. *Journal of Neuroscience*, 27, 5981–5985.
- Xu, Y. & Chun, M. M. (2006). Dissociable neural mechanisms supporting visual short-term memory for objects. *Nature*, 440, 91–95.
- Xu, Y. (2006). Understanding the object benefit in visual short-term memory: The roles of feature proximity and connectedness. *Perception & Psychophysics*, 68, 815–828.
- Xu, Y. (2005). Revisiting the role of the fusiform face area in visual expertise. *Cerebral Cortex*, 15, 1234–1242.
- Xu, Y., Liu, J., & Kanwisher, N. (2005). The M170 is selective for faces, not for expertise. *Neuropsychologia*, 43, 588–597.
- Xu, Y. (2002). Encoding color and shape from different parts of an object in visual short-term memory. *Perception & Psychophysics*, 64, 1260–1280.
- Xu, Y. (2002). Limitations of object-based feature encoding in visual short-term memory. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 458–468.
- Xu, Y. (2002). Feature integration across parts in visual search. *Perception*, 31, 1335–1347.
- Xu, Y. & Singh, M. (2002). Early computation of part structure: Evidence from visual search. *Perception & Psychophysics*, 67, 1039–1054.
- Scholl, B. J., & Xu, Y. (2001). The magical number 4 in vision. *Behavioral and Brain Sciences*, 24, 145–146.
- Xu, Y., & Corkin, S. (2001). H.M. revisits the Tower of Hanoi puzzle. *Neuropsychology*, 15, 69–79.
- Xu, Y., Pollatsek, A., & Potter, M. C. (1999). The activation of phonology during silent Chinese word reading. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 25, 838–857.

### **Conference Presentations**

#### **2018**

- Taylor, J., Vaziri Pashkam, M. & Xu, Y. (2018). Probing mixed selectivity with fMRI voxel analysis. Talk presented at the 18<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Wang, R. & Xu, Y. (2018). Neural representation of spatial layout and relational information among multiple objects. Poster presented at the 47<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.

#### **2017**

- Taylor, J. & Xu, Y. (2017). To bind or not to bind? Neural coding of color and shape. Talk presented at the 47<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.

- Wang, R. & Xu, Y. (2017). Neural representation of Layout and Relational Information among Multiple Objects. Talk presented at the 47<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Taylor, J. & Xu, Y. (2017). Effect of task on object category representations across human ventral, dorsal, and frontal brain regions. Poster presented at the 17<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Vaziri Pashkam, M. & Xu, Y. (2017). Spatial frequency tolerant object representations in the ventral and dorsal visual processing pathways. Poster presented at the 17<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.

## 2016

- Taylor, J., Vaziri Pashkam, M., & Xu, Y. (2016). Attention to object form modulates informational connectivity between dorsal and ventral visual streams. Poster presented at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Wang, R., & Xu, Y. (2016). Neural representation of action-related object pairs in human visual cortex. Poster presented at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Xu, Y. & Vaziri Pashkam, M. (2016). Rediscovering the ventral and dorsal pathways of visual information processing. Talk presented at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Cant, J.S., & Xu, Y. (2016). *The neural representation of outliers in object-ensemble perception*. Poster presented at the 16<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Vaziri Pashkam, M. & Xu, Y. (2016). Effect of task on object responses in human parietal and occipital-temporal cortices: similarities and differences. Poster presented at the 16<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Wang R. & Xu, Y. (2016). Contextual facilitation of action-related object pairs. Poster presented at the 16<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Xu, Y. (2016). *Decoding visual representations in the human parietal cortex*. Talk presented at the symposium on "The parietal cortex in vision, cognition, and action" (co-organized by Yaoda Xu and David Freedman) at the 16<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.

## 2015

- Vaziri Pashkam, M. & Xu, Y. (2015). *Attentional modulation of object category decoding in human parietal and occipito-temporal regions*. Talk presented at the 45<sup>th</sup> Annual Meeting of the Society for Neuroscience. Chicago, DC.
- Wang R. & Xu, Y. (2015). *Neural representation of contextual consistency and position regularity of objects in a pair*. Talk presented at the 45<sup>th</sup> Annual Meeting of the Society for Neuroscience. Chicago, DC.
- Xu, Y. & Bettencourt, K. (2015). *Decoding reveals superior IPS VSTM representation tracks the behaviorally perceived contents of VSTM*. Talk presented at the 45<sup>th</sup> Annual Meeting of the Society for Neuroscience. Chicago, DC.
- Bettencourt, K. & Xu, Y. (2015). *Understanding the nature of visual short-term memory representation in human parietal cortex*. Poster presented at the 15<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.

- Ross, D., Tamber-Rosenau, B., Palmeri, P., Zhang, J., Xu, Y., & Gauthier, I. *High Resolution fMRI Reveals Holistic Car Representations in the anterior FFA of Car Experts*. Poster presented at the 15<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Vaziri Pashkam, M. & Xu, Y. (2015). *Object representations in human parietal and occipito-temporal cortices: Similarities and differences*. Talk presented at the 15<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Wang, R. & Xu, Y. (2015). *Neural representation of contextually consistent and inconsistent object pairs in human ventral visual cortex*. Poster presented at the 15<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Zhang, J. & Xu, Y. (2015). *fMRI decoding reveals neural representations of grouping in ventral visual cortex*. Poster presented at the 15<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.

## 2014

- Bettencourt, K. & Xu, Y. (2014). *Decoding under distraction reveals distinct occipital and parietal contributions to visual short-term memory representation*. Talk presented at the 44<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Jeong, S.K. & Xu, Y. (2014). *Abstract face identity representation in human superior intra-parietal sulcus reflects perceived face identity similarity*. Talk presented at the 44<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Vaziri Pashkam, M. & Xu, Y. (2014). *Decoding invariant visual object representations in human parietal cortex*. Talk presented at the 44<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Zhang, J., Liu, J. & Xu, Y. (2014). *fMRI decoding reveals impaired face configural processing in the right fusiform face area of individuals with developmental prosopagnosia*. Talk presented at the 44<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Bettencourt, K. & Xu, Y. (2014). *Decoding reveals distractor modulation of visual short-term memory contents in occipital but not in parietal cortices*. Talk presented at the 14<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Jeong, S.K. & Xu, Y. (2014). *Task-context dependent visual object representation in human parietal cortex*. Poster presented at the 14<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Vaziri Pashkam, M. & Xu, Y. (2014). *Decoding visual object representation in human parietal cortex*. Poster presented at the 14<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Wang, R. & Xu, Y. (2014). *Neural representation of ensemble orientation in human visual cortex*. Poster presented at the 14<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.
- Zhang, J., Liu, J. & Xu, Y. (2014). *fMRI decoding reveals impaired face configuration representation in the right fusiform face area of individuals with developmental prosopagnosia*. Talk presented at the 14<sup>th</sup> Annual Meeting of the Vision Sciences Society. St Pete's Beach, FL.

## 2013

- Bettencourt, K. & Xu, Y. (2013). *Decoding visual short-term memory contents in occipital and parietal cortices under distraction*. Poster to presented at the 43<sup>rd</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Jeong, S.K. & Xu, Y. (2013). *Object identity representation in human superior intra-parietal sulcus*. Poster to presented at the 43<sup>rd</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.

- Vaziri Pashkam, M. & Xu, Y. (2013). *The contribution of human parietal cortex to conceptual categorization*. Talk presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Jeong, S.K. & Xu, Y. (2013). *The representation of face identity in human parietal cortex*. Talk presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Zhang, J. & Xu, Y. (2013). *The representation of object parts in the human brain*. Talk presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Cant, J. & Xu, Y. (2013). *Independence between shape and texture processing in single-object but not in object-ensemble perception*. Poster presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Bettencourt, K. & Xu, Y. (2013). *The impact of distractors on visual short-term memory representation in early visual areas*. Poster presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Zhang, X. & Xu, Y. (2013). *Integrated neural representation of object identity and layout during scene processing*. Poster presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Wang, R. & Xu, Y. (2013). *Neural Preference for Vertical Symmetry*. Poster presented at the 13<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.

## 2012

- Cant, J. & Xu, Y. (2012). *Changes in ratio, but not density, modulates object ensemble representation in anterior-medial ventral visual cortex*. Talk presented at the 42<sup>nd</sup> Annual Meeting of the Society for Neuroscience. New Orleans, LA.
- Jeong, S.K. & Xu, Y. (2012). *Flexible visual information representation in human parietal cortex*. Poster presented at the 42<sup>nd</sup> Annual Meeting of the Society for Neuroscience. New Orleans, LA.
- Vaziri Pashkam, M. & Xu, Y. (2012). *Contribution of human parietal cortex to object categorization under uncertainty*. Poster presented at the 42<sup>nd</sup> Annual Meeting of the Society for Neuroscience. New Orleans, LA.
- Zhang, J., Song, Y., Liu, J., & Xu, Y. (2012). *Interactive coding of parts during visual object representation in the human brain*. Poster presented at the 42<sup>nd</sup> Annual Meeting of the Society for Neuroscience. New Orleans, LA.
- Cant, J. & Xu, Y. (2012). *The impact of density and ratio on object-ensemble representation in anterior-medial ventral visual cortex*. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Jeong, S.K. & Xu, Y. (2012). *Decoding location and category information in human parietal cortex*. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Vaziri Pashkam, M. & Xu, Y. (2012). *Object representation in human parietal cortex and its functional significance*. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Zhang, J. & Xu, Y. (2012). *Holistic object representation in human visual cortex*. Talk presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Zhang, X. & Xu, Y. (2012). *The contribution of object layout and object identity to scene representations in the brain*. Poster presented at the 12<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.

## 2011

- Bettencourt, K. & Xu, Y. (2011). *The role of transverse occipital sulcus in scene perception and its relationship to object individuation in inferior intraparietal sulcus*. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Jeong, S. K. & Xu, Y. (2011). *Hemispheric bias in the parietal region depends on top-down attentional engagement*. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Xu, Y. & Cant, J. (2011). *The contribution of object shape and texture to object ensemble representation in ventral visual cortex*. Talk presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.
- Bettencourt, K. & Xu, Y. (2011). *Retinotopically defined parietal regions and their relationship to parietal areas involved in object individuation and identification*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Cant, J. & Xu, Y. (2011). *Object ensemble coding is distinct from texture processing in the parahippocampal place area*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Garrido, L., Cant, J., Xu, Y., & Nakayama, K. (2011). *Changes in face representations with visual familiarity*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Hyde, D. C., Spelke, E. S., & Xu, Y. (2011). *Parietal representation of small and large number*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Jeong, S. K. & Xu, Y. (2011). *Parietal laterality effects in visual information processing during object individuation and identification*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Poltoraski, S. & Xu, Y. (2011). *Distractors, sequential presentation have no effect on numerosity judgment across multiple sets*. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.

## 2010

- Cant, J. & Xu, Y. (2010). *A link between the processing of object ensembles and texture in the parahippocampal place area*. Talk presented at the 40<sup>th</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Cant, J. & Xu, Y. (2010). *The flipside of object individuation: Neural representation for object ensembles*. Talk presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Jeong, S. K. & Xu, Y. (2010). *Neural representation of targets and distractors during object individuation and identification*. Poster presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Poltoraski, S. & Xu, Y. (2010). *Shared VSTM resources for enumerating sets and for encoding their colors*. Poster presented at the 10<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.

## 2008

- Xu, Y. (2008). *Neural fate of unattended features in object-based encoding*. Poster presented at the 8<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.
- Xu, Y. (2008). *Dissociable parietal mechanisms supporting visual short-term memory for objects*. Pre-conference Symposium Talk presented at the 8<sup>th</sup> Annual Meeting of the Vision Sciences Society. Naples, FL.

Xu, Y. (2008). *Dissociable parietal mechanisms supporting visual short-term memory for objects*. Symposium talk presented at the 2008 Cognitive Neuroscience Society Annual Meeting. San Francisco, CA.

## 2007

Xu, Y. & Chun, M. M. (2007). *Grouping determines object-based selection in human inferior intra-parietal sulcus*. Talk presented at the 7<sup>th</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

Turk-Browne, N. B., Xu, Y., & Chun, M. M. (2007). *Dissociating task performance from neural repetition effects in ventral visual cortex*. Talk presented at the 7<sup>th</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2006

Xu, Y. & Chun, M. M. (2006). *The neural signature of visual object grouping*. Talk presented at the 47th Annual Meeting of the Psychonomics Society. Houston, TX.

Xu, Y. & Chun, M. M. (2006). *Brain mechanisms supporting visual short-term memory for multi-feature objects*. Talk presented at the 36<sup>th</sup> Annual Meeting of the Society for Neuroscience. Atlanta, GA.

Xu, Y. & Chun, M. M. (2006). *Brain mechanisms supporting visual short-term memory for multi-feature objects*. Talk presented at the 6<sup>th</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2005

Xu, Y. & Chun, M. M. (2005). *Dissociable neural mechanisms supporting visual short-term memory for objects*. Talk presented at the 46th Annual Meeting of the Psychonomics Society. Toronto, Canada.

Xu, Y. & Chun, M. M. (2005). *Dissociable neural mechanisms supporting visual short-term memory for objects*. Talk presented at the 35<sup>th</sup> Annual Meeting of the Society for Neuroscience. Washington, DC.

Xu, Y. & Chun, M. M. (2005). *Representing objects in visual short-term memory: The roles of the human intra-parietal sulcus and the lateral occipital complex*. Poster presented at the 5<sup>th</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2004

Xu, Y. (2004). *Representing objects in visual short-term memory: Features, parts and possible neural mechanisms*. Invited symposium talk presented at the 45th Annual Meeting of the Psychonomics Society. Minneapolis, MN.

Xu, Y. (2004). *An object benefit for encoding two colors of an object in visual short-term memory*. Poster presented at the 45th Annual Meeting of the Psychonomics Society. Minneapolis, MN.

Xu, Y. & Chun, M. (2004). *The neural representation of object parts and configurations*. Talk presented at the 34<sup>th</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.

Xu, Y. & Kanwisher, N. (2004). *Attention, feature dimension, and face identity fMRI adaptation in the right fusiform face area*. Poster presented at the 4<sup>th</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2003

- Xu, Y. (2003). *The effect of object part connection and spatial distance on visual short-term memory capacity*. Poster presented at the 44th Annual Meeting of the Psychonomics Society. Vancouver, Canada.
- Xu, Y. & Nakayama, K. (2003). *Placing objects at different depths increases visual short-term memory capacity*. Talk presented at the 3rd Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2002

- Xu, Y. (2002). *The interaction of surfaces and visual short-term memory*. Poster presented at the 43<sup>rd</sup> Annual Meeting of the Psychonomic Society. Kansas City, MO.
- Xu, Y., Liu, J., & Kanwisher, N. G. (2002). *The M170 is Selective for Faces, not for Expertise*. Talk presented at the 32<sup>nd</sup> Annual Meeting of the Society for Neuroscience. Orlando, FL.

## 2001

- Xu, Y. & Kanwisher, N. G. (2001). *What is the Magnitude and Theoretical Significance of the FFA Response to Expert Stimuli?* Poster presented at the 31<sup>st</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
- Xu, Y. & Nakayama, K. (2001). *Surface-based attention is separable from object-based attention*. Poster presented at the 42<sup>nd</sup> Annual Meeting of the Psychonomic Society. Orlando, FL.
- Xu, Y. (2001). *Limitations in object-based feature encoding in visual short-term memory*. Talk presented at 1<sup>st</sup> Annual Meeting of the Vision Sciences Society. Sarasota, FL.

## 2000 and earlier

- Xu, Y. (2000). *Conjunction search for features in different parts of an object*. Poster presented at the Annual Meeting for the Association for Research in Vision and Ophthalmology. Fort Lauderdale, FL.
- Xu, Y. (2000). *Subitizing and visual feature integration*. Poster presented at the 2000 Cognitive Neuroscience Society Annual Meeting. San Francisco, CA.
- Xu, Y., & Potter, M. C. (1999). *Objects through the eyes of visual working memory*. Talk presented at the 7th Annual Workshop on Object Perception and Memory. Los Angeles, CA.
- Xu, Y., & Potter, M. C. (1999). *Capacity and form of representation in visual working memory*. Poster presented at the 1999 Cognitive Neuroscience Society Annual Meeting. Washington, DC.
- Xu, Y., Potter, M. C., & Corkin, S. (1998). *Semantically related words increase retention in an amnesic patient*. Poster presented at the 1998 Cognitive Neuroscience Society Annual Meeting. San Francisco, CA.
- Xu, Y., & Corkin, S. (1996). *H.M. revisits the Tower of Hanoi puzzle*. Poster presented at the 26th Annual Meeting of the Society for Neuroscience. San Diego, CA.

## Professional Activities

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| 2017 | Member of the editorial board of <i>Psychological Science</i>  |
| 2016 | Participated at the “Meet the professor” mentoring event at the Annual Meeting of the Vision Sciences Society.                   |
| 2015 | Participated at the “Finding your path in graduate school” mentoring event at the Annual Meeting of the Vision Sciences Society. |

- Ad hoc review member for NIH grant review panel on Mechanisms of Sensory, Perceptual and Cognitive Processes Study Section (June). Washington, DC.
- 2008 NSF grant review panel on cognitive neuroscience (Fall). Washington, DC.
- 2006 NSF grant review panels on cognitive neuroscience (Spring & Fall). Washington, DC.
- 2000 – now Served as ad hoc reviewer for Brain Research, Canadian Journal of Psychology, Cerebral Cortex, Cognition, Cognitive Affective & Behavioral Neuroscience, Current Biology, Developmental Psychology, Experimental Psychology, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning, Memory and Cognition, Journal of Neuroscience, Journal of Neurophysiology, Journal of Vision, NeuroImage, Neuron, Perception & Psychophysics, PLoS One, Proceedings of the National Academy of Sciences, Psychological Science, Psychonomic Bulletin & Review, Trends in Cognitive Science, Visual Cognition, and NSF grant proposals.
- 2003 & 2004 Organizer for the 11<sup>th</sup> and 12<sup>th</sup> Annual Workshop on Object Perception, Attention & Memory (OPAM), in Vancouver, Canada (2003) and Minneapolis, MN (2004). Played a key role in securing funding and waiving the registration fee for the workshop in 2004.
- 2000 – 2006 Member of the Psychonomic Society
- 2000 – now Member of the Vision Sciences Society
- 1995 – now Member of the Society for Neuroscience

### **Invited Talks**

- Adaptive visual information processing in human posterior parietal cortex.* Psychology Colloquium, Vanderbilt University. Spring, 2018.
- Reevaluate the sensory account of visual working memory.* Working memory workshop. NYU-Abu Dhabi. Spring, 2017.
- Representing Parts and Wholes in the human Brain.* Opening keynote address at the Configural Processing Consortium. Boston, MA. Fall, 2016.
- Understanding visual representation in human parietal cortex.* Cognitive Lunch Series, MIT. Fall, 2016.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Psychology Colloquium, University of Chicago. Spring, 2016.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Cognitive Neuroscience Brownbag, Northwestern University. Spring, 2016.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Cognitive Brownbag, Dartmouth College. Spring, 2016.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Psychology Colloquium, Stanford University. Spring, 2016.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Cognitive Colloquium, University of California, Berkeley. Spring, 2016
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Center for Cognitive Sciences Colloquium, University of Minnesota, St. Paul. Fall, 2015.
- Multi-level and Dynamic Visual Object Representation in the Human Brain.* Perceptual Science Talk Series, Rutgers University, New Brunswick. Spring 2015.
- Decoding Visual Representation in the Human Parietal Cortex.* Penn Center for Cognitive Neuroscience Colloquium, University of Pennsylvania. Spring, 2015.

- Decoding Visual Representation in the Human Parietal Cortex*. Cognitive Brown Bag Series, Princeton University. Spring, 2015.
- Multi-level and dynamic visual object representation in the human brain*. Cognitive Lunch Talk Series, Yale University. Fall, 2014.
- Multi-level and dynamic visual object representation in the human brain*. Brain, Behavior, and Cognition Talk Series, Boston University. Fall, 2014
- Multi-level and dynamic visual object representation in the human brain*. The seventh annual meeting of Concepts, Actions, and Objects: Functional and Neural Perspectives. Rovereto, Italy, May, 2014.
- Multi-level and dynamic visual object representation in the human brain*. Cognitive Science Colloquium, University of Arizona. Spring, 2014.
- Parietal contribution to visual short-term memory*. XXV International Symposium on Attention and Performance "Mechanisms of Sensory Working Memory". Montréal, Canada. Summer, 2013.
- Visual object representation in the human brain: From single objects to object ensembles*. Boston College. Spring, 2013.
- Parietal mechanisms mediating visual information representation in visual short-term memory*. Portland Working Memory Workshop. Portland, Oregon. Summer, 2012
- Object specific and object ensemble representations in the human brain*. Perceptual Expertise Network XXIV Workshop. Chicago, IL. Spring, 2012.
- Object specific and object ensemble representations in the human brain*. Brainmap Seminar. MGH Martinos Center for Biomedical Imaging. Fall, 2011.
- Object specific and object ensemble representations in the human brain*. New England College of Optometry. Fall, 2011.
- Object specific and object ensemble representations in the human brain*. Brain and Cognition Talks. MGH Martinos Center for Biomedical Imaging. Spring, 2011.
- Object specific and object ensemble representations in the human brain*. Boston University. Fall, 2010.
- Selecting and perceiving multiple visual objects in the mind and brain*. Berenson-Allen Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center and Harvard Medical School. Spring, 2010.
- Selecting and perceiving multiple visual objects in the mind and brain*. Visual attention lab, Brigham and Women's Hospital. Spring, 2009.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. Massachusetts Institute of Technology. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. University of California, Davis. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. University of California, San Diego. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. Harvard University. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. New York University. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. State University of New York at Stony Brook. Spring, 2008.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. University of Massachusetts, Amherst. Fall, 2007.
- Dissociable parietal mechanisms supporting visual object individuation and identification*. Stanford University. Spring, 2007.

*Understanding visual object representations in the brain: Insights from visual working memory.* Yale University Medical School. Fall, 2006.

*Object type and token representations in the brain: Insights from visual short-term memory.* Princeton University. Spring, 2006.

*Object type and token representations in the brain: Insights from visual short-term memory.* University of California, Irvine. Spring, 2006.

*Dissociable neural mechanisms supporting visual short-term memory for objects.* Yale University. Fall, 2005.

*Object perception: From brain to behavior.* University of Washington. Spring, 2003.