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Department of Psychology
George Washington University
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Education and Training

- 2020 – George Washington University, U.S.
Post-Doctoral Scientist
PI: Dr. Sarah Shomstein
- 2020.05 – 2020.07 The Ohio State University, U.S.
Post Doctoral Scholar
PI: Dr. Julie D. Golomb
- 2014 – 2020 The Ohio State University, U.S.
2016, M.A. in Cognitive Psychology
2020, Ph.D. in Cognitive Psychology
Advisor: Dr. Julie D. Golomb
- 2009 – 2013 Tsinghua University, China
B.S. in Psychology
Advisor: Dr. Meihong Zheng
- 2010 Tsinghua-Berkeley Psychology Department Summer
Exchange Program, University of California-Berkeley, U.S.

Manuscripts and Publications

- Zhang, X., Jones, C.M., & Golomb, J.D. (submitted). Decoding 3D spatial location across saccades in human visual cortex.
- Zhang, X., & Golomb, J.D. (in press). Neural representations of covert attention across saccades: comparing pattern similarity to shifting and holding attention during fixation. *eNeuro*.
- Zhang, X., & Golomb, J.D. (2018). Target localization after saccades and at fixation: Nontargets both facilitate and bias responses. *Visual Cognition*, 26(9), 734–752.
- Finlayson, N.J., Zhang, X., and Golomb, J.D. (2017). Differential patterns of 2D location versus depth decoding along the visual hierarchy. *NeuroImage*. 147, 507-516.

Conference Presentations

- Zhang, X., Jones, C.M., & Golomb, J.D. (June 2020). Decoding 3D spatial location across saccades in human visual cortex. Talk presented at Annual Meeting of the Vision Science Society, Virtual Conference.
- Zhang, X., Jones, C.M., & Golomb, J.D. (Oct 2019). Decoding 3D spatial location across saccades in human visual cortex. Poster presented at Society for Neuroscience, Chicago, IL.
- Zhang, X. & Golomb, J.D. (May 2019). Neural representations of attention across saccades:

More similar to shifting or to holding covert attention? Poster presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Zhang, X. & Golomb, J.D. (May 2018). Localizing visual targets across saccades: Do nontarget landmarks really help? Poster presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Zhang, X. & Golomb, J.D. (Nov 2017). Independent and overlapping neural representations of saccades, attention shifts, and reference frames. Poster presented at Society for Neuroscience, Washington, DC.

Chen, J., Zhang, X., & Golomb, J.D. (Nov 2017). Dynamically tracking the neural signatures of visual attention across a saccade. Poster presented at Society for Neuroscience, Washington, DC.

Zhang, X. & Golomb, J.D. (July 2017). Independent and overlapping neural representations of saccades, attention shifts, and reference frames. Poster presented at Gordon Research Seminar and Gordon Research Conference, Lewiston, ME.

Chen, J., Zhang, X., & Golomb, J.D. (July 2017). Dynamically tracking the neural signatures of visual attention across a saccade. Poster presented at Gordon Research Seminar and Gordon Research Conference, Lewiston, ME.

Zhang, X. & Golomb, J.D. (May 2017). Independent and overlapping neural representations of saccades, attention shifts, and reference frames. Poster presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Chen, J., Zhang, X., & Golomb, J.D. (May 2017). Dynamically tracking the neural signatures of visual attention across a saccade. Poster presented at Annual Meeting of the Vision Sciences Society, St. Pete's Beach, FL.

Zhang, X. & Golomb, J.D. (May 2016). Visual stability across saccades: Do the number and spatial location of non-targets influence target location processing? Poster presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Barboza, M., Finlayson, N.J., Zhang, X. & Golomb, J.D. (May 2016). Feature-location binding, the "spatial congruency bias", and object-based attention. Poster presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Zhang, X. & Golomb, J.D. (Nov 2015). Detecting target displacements across eye movements: How can non-targets work as "landmarks"? Poster presented at Annual Workshop on Object Perception, Attention, and Memory, Chicago, IL.

Finlayson, N.J., Zhang, X. & Golomb, J.D. (Nov 2015). The Representation and Perception of 3D Space: Interactions Between 2D Location and Depth. Talk presented at Annual Workshop on Object Perception, Attention, and Memory, Chicago, IL.

Finlayson, N.J., Zhang, X. & Golomb, J.D. (May 2015). Human visual cortex gradually transitions from 2D to 3D spatial representations. Talk presented at Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

Awards and Fellowships

June, 2019	Summer 2019 Graduate Student Interdisciplinary Research Award at Psychology Department, the Ohio State University
June, 2017	Summer 2017 Graduate Excellence Award at Psychology Department, the Ohio State University
May, 2016	College of Social and Behavioral Sciences (SBS) Fellowship at the Ohio State University
Feb., 2016	H. Dean and Susan Regis Gibson Research Award from Center for Cognitive Behavioral Brain Imaging
2014 - 2015	University Fellowship at the Ohio State University
Jun., 2011	3rd Prize of the 6th “Challenge Cup” Capital Undergraduate Curriculum Academic Science and Technology Works Competition
Dec., 2010	Zheng Geru Scholarship at Tsinghua University
Apr., 2010	3rd Prize of the 28th “Challenge Cup” Tsinghua Undergraduate Curriculum Academic Science and Technology Competition

Research Projects

July, 2020 – present	The effect of task-irrelevant semantic information on attention
July, 2020 – present	Neural representation of objects with spatial uncertainty
Sept., 2018 – present	Neural representation of 3D spatial location across saccades
May, 2018 – present	Representation of learned visual categories in human cortex
Feb., 2016 – Feb., 2021	Neural representations of saccades, attention shifts, and reference frames
Nov., 2015 - Dec., 2016	Decoding 2D location vs position-in-depth in visual cortex
Sept., 2014 - Nov., 2018	Landmarks and visual stability across eye movements
Jan., 2013 - Jun., 2013	How does working memory capacity change under psychosocial stress: is there stress adaptation?
Mar., 2011 - Jul., 2011	The influence of top-down and bottom-up processes on object-based and space-based visual attention

Invited Talks

Oct., 2019	Department of Psychology, George Washington University
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Undergraduate Research Mentoring

Dec., 2015 – Aug., 2016	Marina Barboza, undergraduate researcher in Golomb lab Research project: Feature-location binding, the “spatial
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congruency bias”, and object-based attention

Teaching

Introduction to
Psychology:

Instructor, The Ohio State University (Fall 2017, Spring 2017, Fall
2019)

Outreach

May 2019
June 2017

Volunteer. The COSI Science Festival at Columbus, OH
Panelist. Meeting with visiting prospective graduate students at OSU,
from the TRIO McNair Program at the University of Illinois Urbana-
Champaign