Zekun Sun

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EDUCATION

Ph.D. Psychological and Brain Sciences

Johns Hopkins

Advised by Chaz Firestone

2019-2022(expected)

- Thesis: "Cognitive consequences of visual complexity" (in-progress)

M.A. Psychological and Brain Sciences

Johns Hopkins

Advised by Chaz Firestone

2017-2019

M.S. Cognitive Neuroscience

Chinese Academy of Sciences

Advised by Jin-yan Wang

2013-2016

- Thesis: "Investigation of pain-related attentional bias and its regulations"

LL.B International Politics

Nanjing University

2009 – 2013

Publications

- Sun, Z., Firestone, C. (under review). The simple and the beautiful: An aesthetic preference for medially complex stimuli.
- Sun, Z., Firestone, C. (2021). Speaking and seeing: How verbal "description length" encodes visual complexity. Journal of Experimental Psychology: General.
- Sun, Z., Firestone, C. (2021). Curious objects: How visual complexity guides attention and engagement. *Cognitive Science*, 45(4), e12933.
- Sun, Z., Firestone, C. (2020). Optimism and pessimism in the predictive brain. *Trends in Cognitive Sciences*, 24, 683-685.
- Sun, Z., Firestone, C. (2020). The dark room problem. Trends in Cognitive Sciences, 24, 346-348.
- Fan, L., Sun, Y. B., **Sun, Z.K.**, Wang, N., Luo, F., Yu, F., Wang, J. Y. (2018). Modulation of auditory sensory memory by chronic clinical pain and acute experimental pain: a mismatch negativity study. *Scientific Reports*, 8(1), 1-13.
- Sun, Z.K., Wang, J.-Y. and Luo, F. (2016). Experimental Pain Induces Attentional Bias That Is Modified by Enhanced Motivation: An Eye Tracking Study. *European Journal of Pain*, 20(8), 1266-1277.

Manuscripts in preparation

- Sun, Z., Firestone, C.. The evolution of complexity in visual memory.
- Sun, Z., Yu, Q. Looking Unique.
- Sun, Z., Firestone, C.. Cognitive consequences of visual complexity.

Presentations

- Sun, Z., & Firestone, C. (November 2021). The evolution of complexity in visual memory. **Poster** presented at the 29th annual meeting for Object Perception, Attention, and Memory, Online.
- Yu, Q., & Sun, Z. (November 2021). Looking Unique. Talk given at the 29th annual meeting for Object Perception, Attention, and Memory, Online.
- Sun, Z., Han. S., & Firestone, C. (May 2021). The evolution of complexity in visual memory. **Talk** given at the 21th annual meeting of the Vision Sciences Society, Online
- Sun, Z., & Firestone, C. (June 2020). The simple and the beautiful: An aesthetic preference for medially complex stimuli. **Poster** given at the 20th annual meeting of the Vision Sciences Society, Online
- Halberda, J., Yu, Q., Sun, Z., & Firestone, C. (June 2020). Not too simple, not too complex: The Goldilocks principle drives discrimination and search. **Poster** presented at the 20th Annual Meeting of the Vision Sciences Society, Online
- Sun, Z., & Firestone, C. (November 2019). Speaking about seeing: How verbal descriptions encode visual complexity. **Talk** given at the 27th annual meeting of Object Perception, Attention, and Memory, Montreal, Canada.
 - Award of Best Talk
- Sun, Z., & Firestone, C. (November 2019). Speaking about seeing: How verbal descriptions encode visual complexity. **Poster** presented at the 19th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
 - Travel Award
- Sun, Z., & Firestone, C. (May 2018). Curious objects: Preattentive processing of object complexity. **Talk** given at the 18th annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Honors and Awards

 Clark Collaborative Award Award to students who initiate cross-lab collaborative projects The complexity of coding, Johns Hopkins 	2021
 The Mary Ainsworth Award Annual award to an outstanding female student, Johns Hopkins 	2021
 The Robert S. Waldrop Junior Investigator's Award Annual award to a graduate student who has demonstrated exceptional scholarly progress in pre-dissertation graduate research, Johns Hopkins 	2019
 OPAM Best Talk Award Talk given at the annual meeting of Object Perception, Attention, and Memory, Montreal 	2019
• Elsevier/Vision Research Travel Award	2019
 Collaborative Research Award Department award to support a project of Goldilocks principle in memory, Johns Hopkins 	2018
 Graduate Student Award Chinese Academy of Sciences 	2015; 2016

TEACHING

Real World Human Data (TA)
 Johns Hopkins University
 Methods in Experimental Psychology (TA)
 Johns Hopkins University
 Introduction to Cognitive Psychology (TA)
 Johns Hopkins University
 Introduction to Social Psychology (TA)
 Johns Hopkins University
 Fall 2018
 Johns Hopkins University

SKILLS TRAINING

• Programming
Python, JavaScript, Matlab, R

• Analysis behavioral data, eye tracking data, fMRI data

• Summer School Neuromatch Academy - Computational Neuroscience (Interactive track)

SERVICE

Student organizer

Early Career Colloquium Selection Committee Student organizer Summer Internship Program Mentor, Vision Group Project: Shape bias and complexity bias Mentee: Subin Han, Cognitive Science Department, JHU Department Colloquium Committee Johns Hopkins Johns Hopkins

Fall 2019