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. (in press). 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 simple and the beautiful: An aesthetic preference for medially complex stimuli.
- Sun, Z., Firestone, C.. The evolution of complexity in visual memory.
- Sun, Z., Yu, Q. Not too simple, not too complex: The Goldilocks principle drives visual attention and memory.
- Sun, Z., Firestone, C.. Cognitive consequences of visual complexity.

Presentations

- 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, Memory (OPAM), 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

 Collaborative Research Award in 2021 Award to students who initiate cross-lab collaborative projects, 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
 Best Talk Award Talk given at the annual meeting of Object Perception, Attention, and Memory, Montreal 	2019
• VSS Student Travel Award	2019
• Collaborative Research Award in 2018	2018
 Graduate Student Award Chinese Academy of Sciences 	2015; 2016

TEACHING

• Real World Human Data (TA) Johns Hopkins University	Spring 2020
• Methods in Experimental Psychology (TA) Johns Hopkins University	Fall 2019
• Introduction to Cognitive Psychology (TA) Johns Hopkins University	Spring 2019
• Introduction to Social Psychology (TA) Johns Hopkins University	Fall 2018

SKILLS

• **Programming**Python, JavaScript, Matlab, R

• Analysis behavioral data, eye tracking data, fMRI data

TRAINING

• Summer School

Neuromatch Academy - Computational Neuroscience (Interactive track)

SERVICE

Early Career Colloquium Selection Committee

Student organizer

Johns Hopkins fall 2020

Summer Internship Program

Mentor, Vision Group

Johns Hopkins Summer 2019

- Project: Shape bias and complexity bias

- Mentee: Subin Han, Cognitive Science Department, JHU

Department Colloquium Committee

Student organizer

Johns Hopkins fall 2019