Chenxiao Guan

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EDUCATION

Johns Hopkins University, MD, 2019-Present (expected 2022)
PhD candidate in Psychological and Brain Sciences
-Advised by Chaz Firestone and Jonathan Flombaum
-Thesis: "The Perception of Possibility" (in progress)

Johns Hopkins University, MD, 2017-2019
M.A. in Psychological and Brain Sciences
-Advised by Chaz Firestone and Jonathan Flombaum

University of Rochester, NY, 2013-2017
B.S. in Brain and Cognitive Science
-Advised by Bradford Mahon
-Honors Thesis: "Representation of Object Affordances in the Posterior Parietal Lobe"
B.A. in Psychology
Minor in Mathematics, Minor in Philosophy

University College London, London, UK, Fall 2015
Division of Psychology and Language Science, study abroad

PUBLICATIONS

Guan, C., Schwitzgebel, D., Hafri, A. & Firestone, C. (in prep). Possible objects affect number estimation.

Guan, C., & Firestone, C. (2020). Seeing what's possible: Disconnected visual parts are confused for their potential wholes. *Journal of experimental psychology: general*, *149*(3), 590.

Jew, C., **Guan, C.**, & Raizada, R. (under review). Trade-off in sensitivity between object identity and viewpoint in both dorsal and ventral visual streams

PRESENTATIONS

Guan, C. (January 2022). The perception of possibility. **Invited Talk** given at Causality in Cognition Lab (CiCL), Stanford University.

Guan, C., Schwitzgebel, D., Hafri, A., & Firestone, C. (June-July 2021). The perception of possibility. **Talk** given at the 47th annual meeting of the Society for Philosophy and Psychology, Online. (**William James Prize)**

Guan, C., Schwitzgebel, D., Hafri, A., & Firestone, C. (June 2020). Possible objects count: Perceived numerosity is altered by representations of possibility. **Poster** given at the 20th annual meeting of Vision Sciences Society, Online. [abstract in *Journal of Vision]*

Guan, C., & Firestone, C. (May 2019). Seeing what's possible: Disconnected visual 'parts' are confused for their potential 'wholes'. **Poster** given at the 19th annual meeting of Vision Sciences Society, St. Pete Beach, FL. [abstract in *Journal of Vision]*

Guan, C., & Firestone, C. (November 2018). Seeing what's possible: Disconnected visual 'parts' are confused for their potential 'wholes'. **Talk** given at the Object Perception, Attention, & Memory conference, New Orleans, LA. (**Travel Award**)

Guan, C., & Firestone, C. (May 2018). The automaticity of Tetris: Disconnected 'parts' activate visual representations of their potential 'wholes'. **Poster** given at the 18th annual meeting of Vision Sciences Society, St. Pete Beach, FL. [abstract in *Journal of Vision]*

Guan, C., Chen, Q., Schneider, C.L., Mahon, B.Z. (March 2017). Representation of object affordances in the posterior parietal lobe. **Poster** given at The Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

AWARDS AND HONORS

William James Prize, 2020

-Award for the best contributed paper by a graduate student from SPP

OPAM Student Travel Award, 2018

Bilski-Mayer Summer Research Fellowship, 2016, Research stipend, University of Rochester

Dean's list, 2013-2017, University of Rochester

Dean's Scholarship, 2013-2017, University of Rochester

TEACHING AND MENTORSHIP EXPERIENCE

Introduction to Cognitive Psychology (TA)
-TA with Jonathan Flombaum, Johns Hopkins University, Spring 2020

Research Methods in Experimental Psychology (TA)
-TA with Dr. Jeffrey Bowen, Johns Hopkins University, Fall 2019

Introduction to Cognitive Psychology (TA)
-TA with Jonathan Flombaum, Johns Hopkins University, Spring 2019

Introduction to Psychology (TA)
-TA with Chaz Firestone, Johns Hopkins University, Fall 2018

Mentored one undergraduate student at Vision Sciences Group
-Works on the number project, Johns Hopkins University, Summer 2019-present

Mentored students in Project SHORT (Students for Higher-Ed Opportunities and Representation in Training)
-Mentored students apply for PhD programs in the U.S.

RESEARCH/WORKING/SERVICE EXPERIENCE

Perception and Mind Lab & Visual Thinking Lab, Johns Hopkins University, 2017-Present
-PhD student, advised by Chaz Firestone and Jonathan Flombaum
-Project: Seeing what's possible
-Project: Possible objects affects number estimation
-Project: Possible objects drive visual attention
-Project: Seeing what's possible in kids

Brain Awareness Week, Johns Hopkins University, 2017-Present
-Teach elementary and middle school students some basic knowledge about cognitive science and neuroscience

Concepts, Actions, and Objects (CAOs) Lab, University of Rochester, 2014-2017
-Undergraduate Research Assistant; Independent research (PI: Bradford Mahon)
-Project: fMRI study on object affordance with neural representation of tools (honors thesis)

Rethink Mental Illness, London, UK, Fall 2015
-Volunteer in psychological consulting of college students

Brain Awareness Week, University of Rochester, 2014-2017
-Student Representative

Brain & Cognitive Science and Neuroscience Undergraduate Council, University of Rochester
-E-Board, 2014-15, 2015-16

STEM Initiative, University of Rochester, September 2013-2017
-Tabling in annual Family Day event for middle and primary schoolers learning science

SKILLS

Software: Microsoft Office, Python, R, javascript, MATLAB, Psychtoolbox, Brain Voyager, BVQXtools, FormZ.
Certifications: CITI certified (human subject research), MRI safety certified.
Language: Proficiency in English and Chinese