Han Zhang

POSTDOCTORAL RESEARCH FELLOW

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☑ hanzh@umich.edu | 🏕 sites.lsa.umich.edu/hanzh | ♡ Google Scholar | ♡ Github | У _HanZhang_ Research Interests_ Visual attention; cognitive control; mind-wandering; ADHD Education **University of Michigan** Ann Arbor, MI, USA POSTDOCTORAL RESEARCH FELLOW, DEPARTMENT OF PSYCHOLOGY 06/2020-present · Advisor: Dr. John Jonides **University of Michigan** Ann Arbor, MI, USA DOCTOR OF PHILOSOPHY, EDUCATION AND PSYCHOLOGY 09/2014-05/2020 • Dissertation: Mind-wandering: What Can We Learn from Eye Movements? **University of Michigan** Ann Arbor, MI, USA MASTER OF SCIENCE, PSYCHOLOGY 09/2014-04/2018 **Beijing Normal University** Beijing, China BACHELOR OF SCIENCE, PSYCHOLOGY 09/2010-07/2014 Awards and Grants SINCE POSTDOC Probing Attentional Allocation with a Novel Forced-Response Method 2023 STANDARD GRANT, NATIONAL SCIENCE FOUNDATION \$659.877 • Role: Key Personnel (Postdoc) Investigating Interference-Control in ADHD Using a Novel Forced-Response Method 2023 R21, NATIONAL INSTITUTE OF MENTAL HEALTH \$429,000 • Role: Key Personnel (Postdoc) **BEFORE POSTDOC** Stanley E. and Ruth B. Dimond Best Dissertation Award 2020 SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN \$500 • Dissertation: Mind-wandering: What Can We Learn from Eye Movements? **ProQuest Distinguished Dissertation Award (Nomination)** 2020 SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN **Rackham One-Term Dissertation Fellowship** 2019 RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN \$17417 **Rackham Graduate Student Research Grant** 2019 RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN \$3000 **Rackham Conference Travel Grant** 2019, 2018, 2017 RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN **Rackham Summer Training Award** 2018 RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN Professor & Mrs. Cho-Yee To Travel Grant 2017, 2015 SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

Chi	ina National Scholarship	2014
MIN	NISTRY OF EDUCATION OF THE PEOPLE'S REPUBLIC OF CHINA	\$1500
The	e First Rank Academic Scholarship	2014, 2013
FAC	culty of Psychology, Beijing Normal University	\$300
Bei	ijing Student Research and Entrepreneurial Action Plan	2013
BEI	JING MUNICIPAL COMMISSION OF EDUCATION	\$1500
Un	dergraduate Student Research Grant	2012
FAC	CULTY OF PSYCHOLOGY, BEIJING NORMAL UNIVERSITY	\$280

Journal Articles

- 1. **Zhang, H.**, Sellers, J., Lee, T. G., & Jonides, J. (in press). The temporal dynamics of visual attention. *Journal of Experimental Psychology: General*. https://doi.org/10.31234/osf.io/e4ktq
- 2. Adkins, T. J., **Zhang, H.**, & Lee, T. G. (2024). People are more error-prone after committing an error. *Nature Communications*, *15*(1), 1–11. https://doi.org/10.1038/s41467-024-50547-y
- 3. **Zhang, H.**, Abagis, T. R., Steeby, C. J., & Jonides, J. (2024). Lingering on distraction: Examining distractor rejection in adults with ADHD. *Visual Cognition*, *0*(0), 1–15. https://doi.org/10.1080/13506285.2024.2328379
- 4. **Zhang, H.**, Miller, K. F., & Jonides, J. (2024). How does mind-wandering affect distractor suppression? *Visual Cognition*, *0*(0), 1–18. https://doi.org/10.1080/13506285.2024.2347605
- 5. **Zhang, H.**, Miyake, A., Osborne, J., Shah, P., & Jonides, J. (2023). A d factor? Understanding trait distractibility and its relationships with ADHD symptomatology and hyperfocus. *PLOS ONE*, *18*(10), e0292215. https://doi.org/10.1371/journal.pone.0292215
- 6. Osborne, J. B., Zhang, H., Carlson, M., Shah, P., & Jonides, J. (2023). The association between different sources of distraction and symptoms of attention deficit hyperactivity disorder. Frontiers in Psychiatry, 14. https://doi. org/10.3389/fpsyt.2023.1173989
- 7. Fansher, M., Adkins, T. J., Lalwani, P., Boduroglu, A., Carlson, M., Quirk, M., Lewis, R. L., Shah, P., **Zhang, H.**, & Jonides, J. (2022). Icon arrays reduce concern over COVID-19 vaccine side effects: A randomized control study. *Cognitive Research: Principles and Implications*, 7(1), 38. https://doi.org/10.1186/s41235-022-00387-5
- 8. **Zhang, H.**, Anderson, N. C., & Miller, K. F. (2022). Scene meaningfulness guides eye movements even during mind-wandering. *Attention, Perception, & Psychophysics*, 84(4), 1130–1150.
- 9. **Zhang, H.**, Abagis, T. R., & Jonides, J. (2021). The malleability of attentional capture. *Visual Cognition*, 29(9), 571–574. https://doi.org/10.1080/13506285.2021.1915903
- 10. **Zhang, H.**, Anderson, N. C., & Miller, K. F. (2021). Refixation patterns of mind-wandering during real-world scene perception. *Journal of Experimental Psychology: Human Perception and Performance*, 47(1), 36–52. https://doi.org/10.1037/xhp0000877
- 11. **Zhang, H.**, Miller, K. F., Sun, X., & Cortina, K. S. (2020). Wandering eyes: Eye movements during mind wandering in video lectures. *Applied Cognitive Psychology*, *34*(2), 449–464. https://doi.org/10.1002/acp.3632
- 12. **Zhang, H.**, Qu, C., Miller, K. F., & Cortina, K. S. (2020). Missing the joke: Reduced rereading of garden-path jokes during mind-wandering. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 46(4), 638–648. https://doi.org/10.1037/xlm0000745
- 13. **Zhang, H.**, Miller, K. F., Cleveland, R., & Cortina, K. S. (2018). How listening to music affects reading: Evidence from eye tracking. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 44(11), 1778–1791. https://doi.org/10.1037/xlm0000544

Book Chapters and Conference Proceedings

- 1. Michal, A., Fansher, M., Xin, S., & **Zhang, H.** (2021). Cognitive Development: Applications to Education. In *The Oxford Handbook of Educational Psychology*. Oxford University Press.
- 2. **Zhang, H.**, & Jonides, J. (2021). Pre-trial Gaze Stability Predicts Momentary Slips of Attention. *EMICS '21*. https://psyarxiv.com/bv2uc/

Under Review

- 1. **Zhang, H.**, York, A. K., & Jonides, J. (2024). *Abrupt onsets in visual search: Foundations and emerging issues*. PsyArXiv. https://doi.org/10.31234/osf.io/3n5gh
- 2. **Zhang, H.**, York, A. K., & Jonides, J. (2024). *Are abrupt onsets highly salient?* PsyArXiv. https://doi.org/10.

- 31234/osf.io/yckxq
- 3. Fansher, M., Lalwani, P., Adkins, T. J., **Zhang, H.**, Carlson, M., Boduroglu, A., Lewis, R. L., Jonides, J., & Shah, P. (2024). *A brief intervention to improve stock-flow reasoning*.
- 4. Lee, T. G., Sellers, J., Jonides, J., & **Zhang, H.** (2024). *The forced-response method: A new chronometric approach to measure conflict processing*. PsyArXiv. https://doi.org/10.31234/osf.io/byzqf
- 5. **Zhang, H.**, Xin, S., & Miyake, A. (2024). *On the association between the self-control scale and social desirability measures: A meta-analysis and systematic review*. PsyArXiv. https://doi.org/10.31234/osf.io/j4vy8

Selected Presentations

- 1. **Zhang, H.**, York, A. K., & Jonides, J. (2024, May). Less salient, more capture: The curious case of abrupt onsets. [Talk session]. VSS 2024. St. Pete beach, FL, USA.
- 2. **Zhang, H.**, Sellers, J., Lee, T., & Jonides, J. (2023, November). *Modeling the temporal dynamics of visual attention*. [Talk session]. The psychonomic society's 64nd annual meeting. San francisco, CA, USA.
- 3. **Zhang, H.**, & Jonides, J. (2023, July). *Pretrial stability predicts momentary lapses of attention*. [Talk session]. The current issues in mind-wandering research conference. Heidelberg, germany.
- 4. **Zhang, H.**, Adkins, T., Lee, T., & Jonides, J. (2022, November). *How does the priority map change over time?* [Talk session]. The psychonomic society's 63nd annual meeting. Boston, MA, USA.
- 5. **Zhang, H.**, Miyake, A., Shah, P., & Jonides, J. (2021, November). *Uncovering the structure of individual differences in distractibility*. [Talk session]. The psychonomic society's 62nd annual meeting. Virtual conference.
- 6. **Zhang, H.**, Anderson, N. C., & Miller, K. F. (2020, November). *Mind-wandering during scene perception: On the role of meaning and salience*. [Poster session]. The psychonomic society's 61st annual meeting. Virtual conference.
- 7. **Zhang, H.**, Anderson, N. C., & Miller, K. F. (2020, April). *Scan-paths of mind-wandering during real-world scene perception*. [Graduate student research award]. The 92nd annual meeting of the midwestern psychological association (conference canceled due to covid-19).
- 8. **Zhang, H.**, Qu, C., Miller, K. F., & Cortina, K. S. (2019, November). *Reduced re-reading of garden-path jokes during mindless reading*. [Poster session]. The psychonomic society's 60th annual meeting. Montreal, québec, canada.
- 9. **Zhang, H.**, Miller, K. F., Cortina, K. S., & Jiang, T. (2019, June). *Mind-wandering in college classrooms: A mobile eye-tracking study*. [Poster session]. SARMAC XIII. Cape cod, MA, USA.
- 10. **Zhang, H.**, & Shah, P. (2019, May). What can iPhone's screen time tell about your cognitive functioning? [Poster session]. The association for psychological science annual meeting. Washington, DC, USA.
- 11. **Zhang, H.** (2019, April). *Mind-wandering: What can we learn from eye-movements?* [Talk session]. The combined program in education and psychology brownbag. Ann arbor, MI, USA.
- 12. **Zhang, H.**, Miller, K. F., & Sun, X. (2019, March). *Scan-paths of mind-wandering during video lectures*. [Poster session]. The international convention of psychological science. Paris, france.
- 13. **Zhang, H.**, & Miller, K. F. (2018, November). *How irrelevant speech affects reading: The role of word predictability.* [Poster session]. The psychonomic society's 59th annual meeting. New orleans, LA, USA.
- 14. **Zhang, H.**, Miller, K. F., & Sun, X. (2018, May). *The wandering eyes: Mind-wandering during video lectures is associated with oculomotor behaviors*. [Poster session]. The association for psychological science annual meeting. San francisco, CA, USA.
- 15. **Zhang, H.**, Miller, K. F., Cleveland, R., & Cortina, K. S. (2016, May). *How listening to music affects reading: Evidence from eye tracking*. [Poster session]. The association for psychological science annual meeting. Chicago, IL, USA.

Teaching Experience _____

PRIMARY INSTRUCTOR

EDUC 391: Educational Psychology and Human Development

09/2017 - 12/2017

PARTICIPATED IN COURSE DESIGN; TAUGHT WEEKLY LECTURES; GRADED ASSIGNMENTS AND EXAMS; HELD OFFICE HOURS

GRADUATE STUDENT INSTRUCTOR

PSYCH 111: Introduction to Psychology

01/2019 - 04/2019

TAUGHT THREE ONE-HOUR CLASSES PER WEEK; GRADED STUDENT ESSAYS AND EXAMS; HELD OFFICE HOURS

PSYCH 240: Introduction to Cognitive Psychology

09/2016 - 12/2016

3

Taught three one-hour classes per week; graded student essays and exams; held office hours

GRADED STUDENT ESSAYS AND EXAMS; HELD OFFICE HOURS; SUPERVISED STUDENT RESEARCH PROJECTS

Global Course Connection: Beijing Normal University

2015 - 2019

SUPERVISED JOINT RESEARCH PROJECTS BETWEEN US AND CHINESE STUDENTS; ORGANIZED CULTURAL EXCHANGE ACTIVITIES

Grant-writing Experience

The Object Perpcetion, Attention, and Memory (OPAM) Conference

2024 Funded

NATIONAL SCIENCE FOUNDATION

• Role: Conceptualization; original draft preparation; reviewing & editing

Toward a Psychological and Neural Model of Conflict Resolution

2024

NATIONAL SCIENCE FOUNDATION

Funded

· Role: Conceptualization; original draft preparation; formal analysis; reviewing & editing

Investigating Interference-Control in ADHD Using a Novel Forced-Response Method

2023

R21, NATIONAL INSTITUTE OF MENTAL HEALTH

Funded

• Role: Conceptualization; original draft preparation; formal analysis; reviewing & editing

Probing Attentional Allocation with a Novel Forced-Response Method

2023

NATIONAL SCIENCE FOUNDATION

Funded

Role: Conceptualization; original draft preparation; formal analysis; reviewing & editing

Uncovering Mechanisms of Interference-Resolution with a Novel Forced-Response Method

2022

Not Funded

NATIONAL SCIENCE FOUNDATION

• Role: Conceptualization; original draft preparation; formal analysis; reviewing & editing

Dissecting Distractibility by the Capture of Attention

2021

NATIONAL SCIENCE FOUNDATION

Not Funded

· Role: Original draft preparation; formal analysis; reviewing & editing

Mitigating Distraction from External and Internal Sources

2020

NATIONAL SCIENCE FOUNDATION

Not Funded

• Role: Original draft preparation; formal analysis; reviewing & editing

Failure to Resist External and Internal Distraction in ADHD

2019

R01, NATIONAL INSTITUTE OF MENTAL HEALTH

Not Funded

• Role: Formal analysis; original draft preparation; reviewing & editing

Professional Service

OBJECT PERCEPTION, ATTENTION, AND MEMORY (OPAM) CONFERENCE ORGANIZER

- OPAM 31, November 16th 2023, San Francisco, CA, US
- OPAM 32, November 21th 2024, New York City, NY, YS
- http://www.opam.net/

Undergraduate Research Opportunity Program (UROP) Mentor

- 2018 current, mentored undergraduate students conducting research projects.
- Mentored students: Madelyn Evans (2018), Nicole Fraija (2018), Yun Gi Hwang (2019), Alexander Fischer (2019), Esha Brar (2023)

STAR (Scholarship, Transferable skills, Academia & Research) Scholars Mentor

- 2018-2020, mentored underrepresented students on academic research engagement and transferable skills.
- https://lsa.umich.edu/psych/undergraduates/star-scholars-program.html

AD HOC REVIEWER

- Memory & Cognition
- Neurolmage
- Visual Cognition
- Cognitive Science
- · Scientific Studies of Reading
- Frontiers in Psychiatry
- Psychological Research
- Cognition
- · Scientific Reports
- Journal of Experimental Psychology: Human Perception and Performance
- PLOS One
- Journal of Memory and Language
- Neurobiology of Aging
- Behavioral Research Methods

References_

John Jonides, Ph.D. jjonides@umich.edu

EDWARD E. SMITH PROFESSOR OF PSYCHOLOGY AND NEUROSCIENCE; CO-DIRECTOR, FUNCTIONAL MRI CENTER, UNIVERSITY OF MICHIGAN

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Priti Shah, Ph.D. priti@umich.edu

DEPARTMENT CHAIR, ARTHUR THURNAU PROFESSOR OF PSYCHOLOGY, EDUCATION, AND INFORMATION, UNIVERSITY OF MICHIGAN

Kevin F. Miller, Ph.D. kevinmil@umich.edu

PROFESSOR OF PSYCHOLOGY AND EDUCATION, UNIVERSITY OF MICHIGAN

Akira Miyake, Ph.D. akira.miyake@colorado.edu

PROFESSOR OF PSYCHOLOGY, UNIVERSITY OF COLORADO BOULDER