

Han Zhang

POSTDOCTORAL RESEARCH FELLOW

Department of Psychology, University of Michigan

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Research Interests

Attention; distraction; mind-wandering; eye movements

Education

University of Michigan

POSTDOCTORAL RESEARCH FELLOW, DEPARTMENT OF PSYCHOLOGY

- Advisor: Dr. John Jonides

Ann Arbor, MI, USA

06/2020-present

University of Michigan

DOCTOR OF PHILOSOPHY, EDUCATION AND PSYCHOLOGY

- Dissertation: Mind-wandering: What Can We Learn from Eye Movements?

Ann Arbor, MI, USA

09/2014-05/2020

University of Michigan

MASTER OF SCIENCE, PSYCHOLOGY

Ann Arbor, MI, USA

09/2014-04/2018

Beijing Normal University

BACHELOR OF SCIENCE, PSYCHOLOGY

Beijing, China

09/2010-07/2014

Awards and Grants

SINCE POSTDOC

Probing attentional allocation with a novel forced-response method

STANDARD GRANT, NATIONAL SCIENCE FOUNDATION

- Role: Key Personnel (Postdoc)

2023

\$659,877

Investigating interference-control in ADHD using a novel forced-response method

R21, NATIONAL INSTITUTE OF MENTAL HEALTH

- Role: Key Personnel (Postdoc)

2023

\$429,000

BEFORE POSTDOC

Stanley E. and Ruth B. Dimond Best Dissertation Award

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

- Dissertation: Mind-wandering: What Can We Learn from Eye Movements?

2020

\$500

2020 ProQuest Distinguished Dissertation Awards (Nomination)

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

2020

Rackham One-Term Dissertation Fellowship

RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN

2019

\$17417

Rackham Graduate Student Research Grant

RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN

2019

\$3000

Rackham Conference Travel Grant

RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN

2019, 2018, 2017

\$1050

Rackham Summer Training Award

RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN

2018

\$3700

Professor & Mrs. Cho-Yee To Travel Grant

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

2017, 2015

\$500

China National Scholarship

MINISTRY OF EDUCATION OF THE PEOPLE'S REPUBLIC OF CHINA

2014

\$1500

The First Rank Academic Scholarship

FACULTY OF PSYCHOLOGY, BEIJING NORMAL UNIVERSITY

2014, 2013

\$300

Beijing Student Research and Entrepreneurial Action Plan

BEIJING MUNICIPAL COMMISSION OF EDUCATION

2013

\$1500

Undergraduate Student Research Grant

FACULTY OF PSYCHOLOGY, BEIJING NORMAL UNIVERSITY

2012

\$280

Peer-reviewed Articles

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>

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>

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>

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>

Zhang, H., Anderson, N. C., & Miller, K. F. (2021). Scene meaningfulness guides eye movements even during mind-wandering. *Attention, Perception, & Psychophysics*. <https://doi.org/10.3758/s13414-021-02370-6>

Zhang, H., & Jonides, J. (2021). Pre-trial Gaze Stability Predicts Momentary Slips of Attention. *EMICS '21*. <https://psyarxiv.com/bv2uc/>

Zhang, H., Anderson, N. C., & Miller, K. F. (2020). 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>

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>

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>

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

Michal, A., Fansher, M., Xin, S., **Zhang, H.**, & Shah, P. (2021). Cognitive development: Methods and illustrative examples. In *The oxford handbook of educational psychology*. Oxford University Press.

Under Review

Adkins, T. J., **Zhang, H.**, Jonides, J., & Lee, T. G. (2023). *What happens after an error?* BioArXiv. <https://doi.org/10.1101/2022.03.17.484792>

Fansher, M., Lalwani, P., Adkins, T. J., **Zhang, H.**, Carlson, M., Boduroglu, A., Lewis, R. L., Jonides, J., & Shah, P. (2023). *Flatten what curve? Helping people make sense of pandemic incidence when public health messaging fails*. <https://doi.org/10.1186/s41235-022-00387-5>

Lee, T. G., Sellers, J., Jonides, J., & **Zhang, H.** (2023). *The forced-response method: A new chronometric approach to measure conflict processing*. PsyArXiv. <https://doi.org/10.31234/osf.io/byzqf>

Zhang, H., Abagis, T. R., Steeby, C. J., & Jonides, J. (2023). *Lingering on distraction: Examining distractor rejection in adults with ADHD*. PsyArXiv. <https://doi.org/10.31234/osf.io/cqe34>

Zhang, H., Miller, K. F., & Jonides, J. (2023). *Does mind-wandering affect distractor suppression?* PsyArXiv. <https://doi.org/10.31234/osf.io/2h6kw>

Zhang, H., Sellers, J., Lee, T. G., & Jonides, J. (2023). *The Temporal Dynamics of Visual Attention*. PsyArXiv. <https://doi.org/10.31234/osf.io/e4ktq>

Zhang, H., Xin, S., & Miyake, A. (2023). *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

Zhang, H., Sellers, J., Lee, T., & Jonides, J. (2023, November). *Modeling the temporal dynamics of visual attention*. [Talk session]. The psychonomic society's 64th annual meeting. San Francisco, CA, USA.

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.

Zhang, H., Adkins, T., Lee, T., & Jonides, J. (2022, November). *How does the priority map change over time?* [Talk session]. The psychonomic society's 63rd annual meeting. Boston, MA, USA.

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.

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.

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).

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.

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.

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.

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.

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.

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.

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.

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

COURSE DESIGN; WEEKLY LECTURES; GRADING ASSIGNMENTS AND EXAMS; OFFICE HOURS

GRADUATE STUDENT INSTRUCTOR

PSYCH 457 : Research in Educational and Cross-Cultural Settings

01/2020 - 04/2020

GRADING STUDENT ESSAYS AND EXAMS; OFFICE HOURS; SUPERVISING STUDENT RESEARCH PROJECTS

PSYCH 457 : Research in Educational and Cross-Cultural Settings

01/2019 - 04/2019

GRADING STUDENT ESSAYS AND EXAMS; OFFICE HOURS; SUPERVISING STUDENT RESEARCH PROJECTS

PSYCH 111: Introduction to Psychology

01/2018 - 04/2018

THREE REVIEW SESSIONS PER WEEK; GRADING ASSIGNMENTS AND EXAMS; OFFICE HOURS

PSYCH 457 : Research in Educational and Cross-Cultural Settings

01/2017 - 04/2017

GRADING STUDENT ESSAYS AND EXAMS; OFFICE HOURS; SUPERVISING STUDENT RESEARCH PROJECTS

PSYCH 240: Intro to Cognitive Psychology

09/2016 - 12/2016

THREE REVIEW SESSIONS PER WEEK; GRADING ASSIGNMENTS AND EXAMS; OFFICE HOURS

PSYCH 457 : Research in Educational and Cross-Cultural Settings

01/2016 - 04/2016

GRADING STUDENT ESSAYS AND EXAMS; OFFICE HOURS; SUPERVISING STUDENT RESEARCH PROJECTS

Global Course Connection: Beijing Normal University

2015 - 2019

SUPERVISING JOINT RESEARCH PROJECTS BETWEEN US AND CHINESE STUDENTS; ORGANIZING STUDENT ACTIVITIES

Grant-writing Experience

Investigating interference-control in ADHD using a novel forced-response method

2022

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

2022

NATIONAL SCIENCE FOUNDATION

Funded

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

Testing the efficacy of interactive decision aids on vaccine attitudes and uptake using a Bayesian precision estimates

2022

MERCK INVESTIGATOR STUDIES PROGRAM

Pending

- Role: reviewing & editing

Uncovering mechanisms of interference-resolution with a novel forced-response method

2022

NATIONAL SCIENCE FOUNDATION

Not Funded

- 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

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

- OPAM 31, November 16th 2023, San Francisco, CA, US
- OPAM 32, November 20th 2024, New York City, NY, US
- <http://www.opam.net/>

MENTOR IN THE STAR (SCHOLARSHIP, TRANSFERABLE SKILLS, ACADEMIA & RESEARCH) SCHOLARS PROGRAM

- 2018-2020, facilitated underrepresented students' involvement in research and transferable skills.
- <https://lsa.umich.edu/psych/undergraduates/star-scholars-program.html>

AD HOC REVIEWER

- Memory & Cognition
- NeuroImage
- Visual Cognition
- Cognitive Science
- Scientific Studies of Reading
- Frontiers in Psychiatry
- Psychological Research
- Cognition
- Scientific Reports
- Journal of Experimental Psychology: Human Perception and Performance

References

John Jonides, Ph.D.

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

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PROFESSOR OF PSYCHOLOGY AND EDUCATION, UNIVERSITY OF MICHIGAN

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tarazlee@umich.edu

ASSISTANT PROFESSOR OF PSYCHOLOGY, UNIVERSITY OF MICHIGAN

Akira Miyake, Ph.D.

akira.miyake@colorado.edu

PROFESSOR OF PSYCHOLOGY, UNIVERSITY OF COLORADO BOULDER