

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

Stanley E. and Ruth B. Dimond Best Dissertation Award

2020

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

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

2020 ProQuest Distinguished Dissertation Awards (Nomination)

2020

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

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

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

\$1050

Rackham Summer Training Award

2018

RACKHAM GRADUATE SCHOOL, UNIVERSITY OF MICHIGAN

\$3700

Professor & Mrs. Cho-Yee To Travel Grant

2017, 2015

SCHOOL OF EDUCATION, UNIVERSITY OF MICHIGAN

\$500

China National Scholarship

2014

MINISTRY OF EDUCATION OF THE PEOPLE'S REPUBLIC OF CHINA

\$1500

The First Rank Academic Scholarship

2014, 2013

FACULTY OF PSYCHOLOGY, BEIJING NORMAL UNIVERSITY

\$300

Beijing Student Research and Entrepreneurial Action Plan

2013

BEIJING MUNICIPAL COMMISSION OF EDUCATION

\$1500

Undergraduate Student Research Grant

2012

FACULTY OF PSYCHOLOGY, BEIJING NORMAL UNIVERSITY

\$280

Peer-reviewed Publications

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., Abagis, T. R., & Jonides, J. (2021). The malleability of attentional capture. *Visual Cognition*. <https://doi.org/10.1080/13506285.2021.1915903>

Zhang, H., & Jonides, J. (2021). Pre-trial gaze stability predicts momentary slips of attention. *EMICS '21. ACM CHI '21 workshop on eye movements as an interface to cognitive state*. <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.

Work in Progress

Adkins, T. J., **Zhang, H.**, & Lee, T. G. (2022). *What happens after an error?* <https://doi.org/10.1101/2022.03.17.484792>

Osborne, J., **Zhang, H.**, Miyake, A., Carlson, M., Shah, P., & Jonides, J. (2022). *The relative influence of different sources of distraction in attention deficit hyperactivity disorder*.

Zhang, H., Miyake, A., Osborne, J., Shah, P., & Jonides, J. (2022). *Uncovering the structure of individual differences in distractibility*.

Zhang, H., Xin, S., & Miyake, A. (2021). *The self-control scale and social desirability: A meta-analysis and systematic review*. <https://psyarxiv.com/j4vy8/>

Selected Presentations

Zhang, H., Miyake, A., Shah, P., & Jonides, J. (2021, November). *Uncovering the structure of individual differences in distractibility*. Oral presentation at the psychonomic society's 62nd annual meeting.

Zhang, H., Anderson, N. C., & Miller, K. F. (2020, November). *Mind-wandering during scene perception: On the role of meaning and salience*. Poster presented at the psychonomic society's 61st annual meeting.

Zhang, H., Anderson, N. C., & Miller, K. F. (2020, April). *Scan-paths of mind-wandering during real-world scene perception*. 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 presented at the psychonomic society's 60th annual meeting.

Sun, X., Shah, P., & **Zhang, H.** (2019, June). *When do students suffer from mind wandering? The role of individual difference and learning context*. Poster presented at SARMAC XIII.

Zhang, H., Miller, K. F., Cortina, K. S., & Jiang, T. (2019, June). *Mind-wandering in college classrooms: A mobile eye-tracking study*. Poster presented at SARMAC XIII.

Fischer, A., & **Zhang, H.** (2019, May). *Examining the effect of word predictability during mindless reading*. Poster presented at the association for psychological science annual meeting.

Zhang, H., & Shah, P. (2019, May). *What can iPhone's screen time tell about your cognitive functioning?* Poster presented at the association for psychological science annual meeting.

Zhang, H. (2019, April). *Mind-wandering: What can we learn from eye-movements?* Oral presentation at the combined program in education and psychology brownbag.

Zhang, H., Miller, K. F., & Sun, X. (2019, March). *Scan-paths of mind-wandering during video lectures.* Poster presented at the international convention of psychological science.

Zhang, H., & Miller, K. F. (2018, November). *How irrelevant speech affects reading: The role of word predictability.* Poster presented at the psychonomic society's 59th annual meeting.

Qu, C., & **Zhang, H.** (2018, May). *All joking aside: Mind-wandering impairs processing of garden-path jokes.* Poster presented at the association for psychological science annual meeting.

Zhang, H., Miller, K. F., & Sun, X. (2018, May). *The wandering eyes: Mind-wandering during video lectures is associated with oculomotor behaviors.* Poster presented at the association for psychological science annual meeting.

Zhang, H., Miller, K. F., Cleveland, R., & Cortina, K. S. (2016, May). *How listening to music affects reading: Evidence from eye tracking.* Poster presented at the association for psychological science annual meeting.

Zhang, H., & Cleveland, R. (2016, March). *How does listening to music affect reading? An eye tracking study.* Oral presentation at the combined program in education and psychology brownbag.

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

PROGRAM ASSISTANT

Global Course Connection: Beijing Normal University

2015 - 2019

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

Professional Service

AD HOC REVIEWER

- Memory & Cognition
- NeuroImage
- Visual Cognition
- Cognitive Science
- Scientific Studies of Reading
- Frontiers in Psychiatry

- Psychological Research

References

John Jonides, Ph.D.

jjonides@umich.edu; 734-764-0192

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

Kevin F. Miller, Ph.D.

kevinmil@umich.edu; 734-615-1800

PROFESSOR OF PSYCHOLOGY AND EDUCATION, UNIVERSITY OF MICHIGAN

Priti Shah, Ph.D.

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PROFESSOR OF COGNITION & COGNITIVE NEUROSCIENCE AND EDUCATIONAL PSYCHOLOGY, UNIVERSITY OF MICHIGAN

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PROFESSOR OF PSYCHOLOGY, UNIVERSITY OF MICHIGAN