

HONGYANG ZHAO

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EDUCATION

- Ph.D. University of Maryland College Park** 08/15-present
Human Development and Quantitative Methodology
Educational Psychology Specialization
(Anticipated graduation 2021)
Advisor: Dr. Patricia A. Alexander
- Certificate in Measurement, Statistics & Evaluation** 05/2019
Advisor: Dr. Gregory Hancock
- M.ED. Harvard Graduate School of Education** 08/13-05/14
Learning and Teaching Program
Advisor: Dr. Tina Grozter
- B.A. Shandong University** 09/09-07/13
English Language and Literature - Translation and Interpretation

PUBLICATIONS

Refereed Journal Articles

Zhao, H., Alexander, P. A., & Sun, Y. (2020). Relational reasoning's contributions to mathematical performance in Chinese elementary and middle-school students. *Journal of Educational Psychology*, 113(2), 279-303. <http://dx.doi.org/10.1037/edu0000595>

Alexander, P. A., **Zhao, H.**, & Sun, Y. (2020). Spontaneous focusing on what and why? What children's alternative responses reveal about their mathematical thinking and relational reasoning. [Special issue]. *Mathematical Thinking and Learning*, 22(4), 332-350. <https://doi.org/10.1080/10986065.2020.1818471>

Chow, J. C., Sjogren, A. L., & **Zhao, H.** (in press). Reporting and reproducibility of meta-analysis in speech-language hearing research. *Journal of Speech, Language, and Hearing Research*.

Chow, J. C., **Zhao, H.**, & Sandbank. (under review). Empirically-derived effect size distributions of interventions for young children with Autism.

Lindström, E. R., Chow, J. C., Zimmerman, K. N., **Zhao, H.**, Settanni, E., & Ellison, A. (under review). A systematic review and meta-analysis of the relation between engagement and achievement in early childhood research.

Lu, Y., Chui, H., Zhu, R.*, **Zhao, H.***, Zhang, Y.*, Liao, J.*, & Miller, M. J. (2018). What does “good adjustment” mean for Chinese international students? A qualitative investigation. *The Counseling Psychologist*, 46(8), 979–1009. <https://doi.org/10.1177/0011000018824283>

Chapters in Edited Books

Alexander, P. A., & the Disciplined Reading and Learning Research Laboratory (2020). Relational reasoning: The bedrock of integration within and across multiple representations, documents, and perspectives. In P. N. Van Meter, A. List, D., Lombardi, & P. Kendeou, (Eds.), *Handbook of learning from multiple representations and perspectives*. New York: Routledge.

Manuscripts in Preparation

Zhao, H., Liu, Y., & Alexander, P. A. (in preparation). Exploring the use of the item-level response time in the Test of Relational Reasoning Junior Version.

Zhao, H., & Alexander, P. A. (in preparation). The role of relational processes in word learning: A systematic literature review and meta-analysis.

Zhao, H., Sun, Y., & Alexander, P. A. (in preparation). Calibration of the Test of Relational Reasoning, junior version among Chinese population.

Chow, J. C., Senter, R., & **Zhao, H.** (in preparation). Language skills of children and youth with ADHD: A systematic review and meta-analysis.

CONFERENCE PRESENTATIONS

International/National Conference Presentations

Zhao, H., & Alexander, P. A. (2021, August 2-4). *Development of a novel measure of quality of word knowledge*. [Proposal submitted]. Society for Text and Discourse Annual Conference, online, USA.

- Zhao, H.**, Alexander, P. A., & Sun, Y. (2021, April 17-21). *A close examination of the Test of Relational Reasoning Junior Version under the multidimensional-IRT Framework* [Poster presentation]. American Educational Research Association Annual Conference, online, USA.
- Lindström, E. R., Chow, J. C., Zimmerman, K., **Zhao, H.**, Settanni, E., & Ellison, A. (2021, February 11-12). Academic engagement and achievement in young children: A systematic review and meta-analysis. [Poster presentation]. Annual Meeting of the Pacific Coast Research Conference. [Virtual due to COVID-19].
- Sun, Y., Alexander, P. A., Singh, A., & **Zhao, H.** (2020, August 6-9). *Characterizing college students' multiple source use in an argumentative essay task: A profile analysis* [Poster presentation]. American Psychological Association Annual Conference, Washington, DC, USA.
- Zhao, H.**, Alexander, P. A., & Sun, Y. (2020, April 17-21). Exploring the connection between children's error patterns on a novel mathematical task and their relational reasoning ability. In J. Fusenig (Chair). *Relational reasoning and mathematical knowledge: Exploring the connection* [Symposium]. American Educational Research Association Annual Meeting, San Francisco, CA, USA (Conference Canceled due to COVID-19).
- Zhao, H.**, Liu, Y., & Alexander, P. A. (2020, April 16-20). *Exploring the relation between item response and response time of the TORRjr scale* [Paper presentation]. National Council on Measurement in Education Annual Meeting, San Francisco, CA, USA (Conference Canceled due to COVID-19).
- Alexander, P. A., **Zhao, H.**, & Sun, Y. (2019 August 12-16). Interrelations among relational reasoning, spontaneous focus on mathematical properties, and mathematics performance. In J. McMullen (Chair). *Beyond SFON: Expanding examinations of spontaneous mathematical focusing tendencies* [Symposium]. European Association for Research in Learning and Instruction Biennial Meeting, Aachen, NRW, Germany.
- Zhao, H.**, Sun, Y., & Alexander, P. A. (2019, April 5-9). Development of relational reasoning ability among Chinese elementary and middle-school students. In E. Grossnickle (Chair). *Pushing the boundaries of relational reasoning in research and practice: Cross-national, cross-domain, and cross-age explorations* [Symposium]. American Educational Research Association Annual Meeting, Toronto, ON, USA.
- Singh, A., Sun, Y., & **Zhao, H.** (2019, April 5-9). Defining and assessing integration in the context of argumentative essays based on multiple sources. In L. M. S. Trakhman (Chair). *Integration: A critical competency for the digital age* [Symposium]. American Educational Research Association Annual Meeting, Toronto, ON, Canada.

Zhao, H., Alexander, P. A., & Sun, Y. (2018, August 9-12). *Measuring relational reasoning in Chinese children and adolescents using TORRjr* [Poster presentation]. American Psychological Association Annual Conference, San Francisco, CA, USA.

Sun, Y., Alexander, P. A., & **Zhao, H.** (2018, April 13-17). *Influence of teacher discursive moves on students' relational reasoning in science classrooms* [Poster presentation]. American Educational Research Association Annual Conference, New York City, NY, USA.

Zhao, H., Sun, Y., & Alexander, P. A. (2017, August 3-6). *Applying latent semantic analysis to the study of relational reasoning in classroom discourse* [Poster presentation]. American Psychological Association Annual Conference, Washington, DC, USA.

Sun, Y., **Zhao, H.**, & Alexander, P. A. (2017, August 3-6). *Relational reasoning in eighth grade science classrooms in US and Australia* [Poster presentation]. American Psychological Association Annual Conference, Washington, DC, USA.

Lu, Y., Liao, J.*, Zhang Y.*, **Zhao, H.***, Zhu, R.*, Chui, H., & Miller, M. J. (2017, August 3-6). *What does good adjustment mean to Chinese international students? A CQR study. In Psychosocial Adjustment of Chinese International Students in Japan and USA* [Symposium]. American Psychological Association Annual Conference, Washington, DC, USA.

Lu, Y., Zhu, R.*, **Zhao, H.***, Zhang Y.*, Liao, J.*, Chui, H., & Miller, M. J. (2017, May 15-19). *What does good adjustment mean to Chinese international students? A CQR study* [Poster presentation]. Asian American Psychological Association Annual Conference, Las Vegas, NV, USA.

Zhao, H., Sun, Y., & Alexander, P. A. (2017, April 27 – May 1). *“Getting students to use relational reasoning”: Sequential analysis of eighth-grade science classroom discourse* [Poster presentation]. American Educational Research Association Annual Conference, San Antonio, TX, USA.

University Presentations

Zhao, H., Sun, Y., & Alexander, P. A. (2017, April 5). *Applying latent semantic analysis to the study of relational reasoning in classroom* [Poster presentation]. Graduate Research Appreciation Day, University of Maryland, College Park, MD, USA.

Sun, Y., **Zhao, H.**, & Alexander, P. A. (2017, April 5). *Relational reasoning in eighth-grade science classrooms in U.S. and Australia*. [Poster presentation]. Graduate Research Appreciation Day, University of Maryland, College Park, MD, USA.

TEST DEVELOPMENT

Zhao, H., Alexander, P. A., & the Disciplined Reading and Learning Research Laboratory (2019). *Relational Reasoning with Words* (non-copyrighted). College Park, MD: Disciplined Reading and Learning Research Laboratory, University of Maryland

Alexander, P. A., & the Disciplined Reading and Learning Research Laboratory (2019). *Test of Relational Reasoning-Junior* (copyright pending) College Park, MD: University of Maryland.

Zhao, H., Sun, Y., & Alexander, P. A. (2019). *Quantitative Relations Test for Chinese Children* (non-copyrighted). College Park, MD: Disciplined Reading and Learning Research Laboratory, University of Maryland

TEACHING EXPERIENCE

Instructor

University of Maryland College Park

EDHD 306 Research Method in Human Development

Fall 2017 (Enrollment: 40)

Spring 2018 (Enrollment: 40)

Summer 2018 (Enrollment: 7)

Fall 2018 (Enrollment: 40)

Spring 2019 (Enrollment: 40)

Teaching Assistant

University of Maryland College Park

EDHD 231 How Creative Ideas, Concepts, and Products are Generated

Spring 2018 (Enrollment: 50)

Spring 2017 (Enrollment: 50)

EDHD 425 Language Development and Reading Acquisition

Spring 2016 (Enrollment: 25)

Fall 2016 (Enrollment: 25)

Fall 2015 (Enrollment: 25)

Chinese Language Teacher

Harvard College of Harvard University

Harvard Chinese Language Summer Program
Summer 2014

AWARDS

SPARC: Supporting Program for Advancing Research and Collaboration 12/20

A merit-based grant (\$1000) for supporting doctoral dissertation from the College of Education
University of Maryland College Park

Dr. Mabel S. Spencer Award for Excellent in Graduate Achievement 03/20

Departmental nomination for a merit-based award with \$15000 stipend and tuition remission after
candidacy
University of Maryland College Park

General COE Scholarship 6/17, 06/18, 06/19, 09/2020

A merit-based scholarship (\$1000) for supporting graduate students in College of Education in
research during summertime
University of Maryland College Park

First Prize Winner 04/17

2017 Graduate Research Appreciation Day
University of Maryland College Park

Travel Award 03/17, 03/18, 04/19

Department of Human Development and Quantitative Methodology
University of Maryland College Park

Jacob K. Goldhaber Travel Award 03/17

Graduate School
University of Maryland, College Park

Outstanding Teacher Award 07/14

Harvard Chinese Language Summer Program

PROFESSIONAL EXPERIENCE

Ad hoc Reviewer

Contemporary Educational Psychology	2016-present
Translational Issues in Psychological Science	02/19-present
Journal of Cognitive Psychology	04/19-present

Frontier Psychology	05/20-present
2020 Annual Meeting of American Educational Research Association	07/20
Assessment for Effective Intervention	04/21

Research Assistant

08/20-present

Supervisor: Dr. Jason C. Chow

Department of Counseling Psychology, Higher Education, and Special Education
University of Maryland, College Park

Program Solution Associate

02/15-05/15

Cambridge Institute of International Education

Research Assistant

Harvard Lab for Developmental Studies

12/13-11/14