
Lu Wang, Ph.D.

Assistant Professor

Ball State University
Department of Educational Psychology
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EDUCATION

Ph.D., Educational Psychology (Minor: Statistics), University of Georgia

Core courses taken from outside the department (with special permissions): Physiology of Behaviors, Neuroanatomy, and Neuroscience of Emotions

Ed. M., Human Development & Psychology, Harvard Graduate School of Education

Capstone course: Mind, Brain, and Education (a year-long interdisciplinary course of cognitive science, neuroscience, and education co-taught by three faculty members)

B.A., Psychology (Minor: Music), University of Pennsylvania

RESEARCH PUBLICATIONS

Peer-Reviewed Articles

Wang, L., Bolin, J., Lu, Z., & Carr, M. Visuospatial Working Memory Mediates the Relationship between Executive Functioning and Spatial Ability. *Frontiers in Psychology*, 9, 2302.

Wang, L., Ester, D., & Finch, H (2018). A Causal Comparative Study of Visuospatial Thinking among Mathematics, Music, and Psychology Students. *Psychology and Education*. 55(2).

Wang, L. & Finch, H (2018). Motivation Variables Mediate the Relationship between Socioeconomic Status and Academic Achievement. *Psychology and Education*, 55(1).

Carr, M., Alexeev, N., **Wang, L.**, Barned, N., Horan, E., & Reed, A. (2017). The Development of Spatial Skills in Elementary School Students. *Child Development*. doi: 10.1111/cdev.12753.

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Kopcha, T., Otumfuor, B., & **Wang, L.** (2015). Effects of Spatial Ability, Gender Differences, and Pictorial Training on Children Using 2-D and 3-D Environments to Recall Landmark Locations from Memory. *Journal of Research on Technology in Education*. doi: 10.1080/15391523.2015.967536.

Wang, L., Cohen, A., & Carr, M. (2014). Spatial Ability at Two Scales of Representation: A Meta-analysis. *Learning and Individual Differences*. doi:10.1016/j.lindif.2014.10.006.

Wang, L., & Carr, M. (2014). Working Memory and Strategy Use Contribute to Gender Differences in Spatial Ability. *Educational Psychologist*, 49 (4), 261-282. doi: 10.1080/00461520.2014.960568.

Articles under Review

Wang, L. Mediation Relationships among Gender, Spatial Ability, Math Anxiety, and Math Achievement: A Review. Revise and resubmit.

Carr, M., Horan, E., Alexeev, N., Barned, N., Otumfuor, B. & **Wang, L.** A Longitudinal Study of Spatial Skills and Number Sense Development in Elementary School Children. Revise and resubmit.

Book Chapters (Invitational)

Wang, L. (2016). Various spatial skills, gender differences, and trainability and transferability of spatial skills. In M. S. Khine (Ed.). *Visual-spatial Ability in STEM Education: Transforming Research into Practice*. Springer International Publishing AG, Cham, pp. 85-108.

Cramond, B., & **Wang, L.** (2012). The audacity of creativity assessment. In S. Hunsaker (Ed.). *Identification of Students for Gifted and Talented Education Services: Theory and Practice*. Mansfield, CT: Creative Learning Press, pp. 335-360.

Technical Reports

Decades of Inquiry into Human Potential: From Neurons to Communities (forthcoming), edited by David Yun Dai and Robert J. Sternberg, a volume that collects the intellectual journeys of leading scholars of the nature of human intelligence. New York, NY: Routledge

Book Review of Woolfolk (2015). *Educational Psychology*, 13th Edition. Boston, MA: Pearson

Conference Presentations

- Wang, L.** & Bolin, J. Gender, Working Memory, and Strategy Use. Poster accepted by the Association for Psychological Science, San Francisco, CA. May 24-27, 2018.
- Wang, L.** & Finch, H. Motivation Variables Mediate the Relationship between Socioeconomic Status and Academic Achievement (2018, May). Poster accepted by the Association for Psychological Science, San Francisco, CA, May 24-27, 2018.
- Wang, L.**, Bolin, J. Gender, Spatial Skills, Math Anxiety, and Mathematical Achievement. Poster accepted by the Association for Psychological Science, San Francisco, CA, May 24-27, 2018.
- Wang, L.**, Bolin, J., & Carr, M. Visuospatial Working Memory Mediates the Relationship between Executive Functioning and Mental Rotation: When Executive Functioning Is Measured By the Tower Test but Not When It Is Measured By the Color-Interference Test. Poster accepted by the Association for Psychological Science, San Francisco, CA. May 24-27, 2018.
- Wang, L.**, Ester, D., & Finch, H. A Causal Comparative Study of Visuospatial Thinking among Mathematics, Music, and Psychology Students. Paper to be submitted to the Indiana Music Education Association in Fort Wayne, Indiana, January 11-13, 2018.
- Carr, M., Alexeev, N., **Wang, L.**, Barned, N. & Horan, E. M. (2015, April). The Developmental Trajectory of Spatial Skills as Predictors of Mathematics Achievement. Poster presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Carr, M., Alexeev, Horan, E. M., Barned, N., **Wang, L.** (2015, March). Spatial Skills in Elementary School Predict Trajectory of Number Sense Development and Achievement. Poster will be presented at the biennial meeting of the Society for Research in Child Development.
- Wang, L.** & Carr, M (August, 2014). Working Memory, Spatial Ability, and Mathematics Achievement. Abstract accepted by the annual meeting of the American Psychological Association, titled, "Cutting Edge Research from Emerging Psychological Scientists: Late-Breaking Poster Session." Washington, DC, U.S.A.
- Otumfuor, B., Kopcha, T., & **Wang, L.** (2014, April). Spatial ability, sex differences, and pictorial training among children using 3-D environments to recall landmark locations. Paper accepted by the annual meeting of the American Educational Research

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Association, titled, “Instructional technology SIG: Roundtable session - computer training in the classrooms.”

Carr, M., Alexeev, N., Barned, N., **Wang, L.**, Horan, E., Reed, A., & Otumfuor, B. (2013, April). “Spatial visualization and perception predict change in number sense.” Poster presented at the biennial meeting of the Society for Research in Child Development.

Wang, L., & Carr, M. (2011, August). “Psychology around the world.” APA Division 15’s international activities poster. Poster presented at the annual meeting of the American Psychological Association (APA). Washington, DC, U.S.A.

Wang, L. (2009, November). “Creative thinking as representational redescription.” Paper presented at the annual meeting of the National Association for Gifted Children (NAGC) in St. Louis, MO, U.S.A.

Wang, L. (2009, March). “Creativity strategy workshop.” Presented at the annual meeting of the Georgia Association for Gifted Children (GAGC) in Galloway Gardens, GA, U.S.A.

HONORS & AWARDS

Summer Faculty Academy Award Recipient (\$2,000), **Ball State University**, 2018

Terhune Travel Award (\$800), **Ball State University**, 2018

Summer Faculty Academy Award Recipient (\$500), **Ball State University**, 2017

“*Hollis*” Research Grant (\$500), **Ball State University**, 2015

“*ASPiRE*” *New Faculty Research Grant* (\$2,575), **Ball State University**, 2014

Honorarium for “Diversity Associates” (\$650.00), **Ball State University**, 2014

PROFESSIONAL AFFILIATIONS

Member, Spatial Intelligence and Learning Center

Member, American Psychological Association (Division 15)

Member, American Educational Research Association

Member, Association for Psychological Science

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SERVICE

Review Editor (equivalent to Editorial Membership), Frontiers in Psychology, 2018-
Editorial Board Member, Psychology and Education, 2018-
Editorial Board Member, Archives of Psychology, 2018-
Dissertation Committee Member, 2016-2018, Susan Shirel, Doctor of Music Art (DMA)
Reviewer, AERA Conference Proposals, 2019 (Division C; SIGs: Problem-Base Education, Constructivist Theory, Research, and Practice, Arts and Inquiry in Visual and Performing Arts in Education, Music Education)
Reviewer, AERA Conference Proposals, SIGs-Brain, Neurosciences and Education and Art Education, 2018
Teachers College Sustainability Committee, 2018-
Teachers College Faculty Research Grant Review Committee, 2017-2018
Teachers College Graduate Students (“Lyell L. Bussell”) Research and Travel Scholarship Review Committee, 2017-2018
Teachers College Research Committee, 2018-
Teachers College Terhune Professional Development Fund Review Committee, 2016-2017
Department Salary Committee, 2018-
Department Salary Appeal Committee, 2017-
Advanced Graduate Studies Committee, 2017-
Educational Psychology Core Curriculum Committee, 2016-
Volunteer, Department of Educational Psychology Search Committee, January 18, 21, & 29, 2018
Volunteer, Department of Educational Psychology Search Committee, December 4 & 8, 2014
Ad Hoc Reviewer, The Spanish Journal of Psychology, 2018
Ad Hoc Reviewer, Review of Experimental and Aging Research, 2016
Ad Hoc Reviewer, Perceptual and Motor Skills, 2015, 2018
Ad Hoc Reviewer, Educational Psychologist, 2014
Ad Hoc Reviewer, American Educational Research Journal – Teaching, Learning and Human Development, 2014
Ad Hoc Reviewer, Journal of Educational Psychology, 2013, 2014, 2015
Ad Hoc Reviewer, Learning and Individual Differences, 2013, 2014
