

RUI MENG

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EDUCATION

University of Wisconsin-Madison

PhD Candidate, Major in Educational Psychology

Minor in Cognitive and Cognitive Neuroscience

M.S. (2018), Educational Psychology

Peking University

M.S. (2015), Applied Psychology

Beijing Normal University

B.S. (2012), Psychology

B.A. (2012), English Language and Literature

HONORS & AWARDS

Michael Vincent and Harriet Frisbie Eastabrooks O'Shea Fellowship (2019-2020)

Student Research Grants Competition (SRGC) Conference Travel Award (2019)

Hartzman International Conference Travel Award (2019)

Global Health Institute Graduate Student Research Award (2019)

The Network Fellow (2018)

IES Sponsored Travel Award (2017)

NSF Sponsored Travel Award (2016)

NSF-NRT LUCID graduate training program trainee (2015-)

National Merit Scholarship (2015)

Beisen Scholarship (2012)

Academic Excellence Scholarship (2009-2012)

National Encouragement Scholarship (2009-2012)

PUBLICATIONS

Meng, R., Matthews, P.G., & Toomarian, E.Y. (2019). The relational SNARC: Spatial representation of nonsymbolic ratios? *Cognitive Science*. <https://doi.org/10.1111/cogs.12778>.

Toomarian, E.Y., **Meng, R.**, & Hubbard, E.M. (2019). Individual differences in implicit and explicit spatial processing of fractions. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2019.00596>.

Meng, R., & Matthews, P.G. (2017). Does presentation format modulate adults' automatic processing of proportions? In G. Gunzelmann, A. Howes, T. Tenbrink, & E.J. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Matthews, P.G., **Meng, R.**, Toomarian, E.Y., & Hubbard, E.M. (2016). The relational SNARC: Spatial representation of nonsymbolic ratios? In A. Papafragou, D. Grodner, D. Mirman, & J.C. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

MANUSCRIPTS

Su, Y., **Meng, R.**, & Hao, S. (under review). Burnout in medical students: characteristics and relations with personality and temperament (in Chinese)

Meng, R. & Matthews, P.G. (in preparation). Spatial representations of symbolic fractions and nonsymbolic ratios.

CONFERENCE PRESENTATIONS

Meng, R. & Matthews, P.G. (2019). Spatial representations of symbolic fractions and nonsymbolic ratios: SNARC effects and number line estimation. Poster presented at the 41th Annual Conference of the Cognitive Science Society. Montreal, CA.

Meng, R. & Matthews, P.G. (2019). Spatial representations of symbolic fractions and nonsymbolic ratios: SNARC effects and number line estimation. Talk presented at the 2nd Mathematical Cognition and Learning Society Conference. Ottawa, CA.

Meng, R., Matthews, P.G., & Hubbard, E.M. (2018). Nonsymbolic ratio sense supports symbolic fraction success. Poster presented at the 40th Annual Conference of the Cognitive Science Society. Madison, Wisconsin, USA.

Meng, R., Matthews, P.G., & Hubbard, E.M. (2018). Predictors of fraction knowledge among young children. Poster presented at the 40th Annual Conference of the Cognitive Science Society. Madison, Wisconsin, USA.

Matthews, P.G., **Meng, R.**, Binzak, J.V., Toomarian, E.Y., & Hubbard, E.M. (2018). Similar behavioral effects for nonsymbolic ratio processing and symbolic fractions suggests common mechanisms. Talk presented at 1st the Mathematical Cognition and Learning Society Conference. Oxford, UK.

Meng, R., Sen, A., Matthews, P.G., Alibali, M.W., & Zhu, J. (2017). Optimizing human learning with machine teaching. In Rogers, T.T, & Kalish, C.W. LUCID science: Advancing learning through human-machine cooperation. Symposium presented at the 39th Annual Conference of the Cognitive Science Society. London, UK.

Kalish, C.W., **Meng, R.**, Sen, A., & Matthews, P.G. (2017). Optimizing mathematic learning: Effects of continuous and nominal practice format on transfer of arithmetic skills. Poster presented at the 39th Annual Conference of the Cognitive Science Society. London, UK.

Meng, R. & Matthews, P.G. (2017). Does presentation format modulate adults' automatic processing of proportions? Poster presented at the 39th Annual Conference of the Cognitive Science Society. London, UK.

Meng, R. & Matthews, P.G. (2017). Does presentation format modulate adults' automatic processing of proportions? Poster presented at the 5th Annual Midwest Meeting on Mathematical Thinking. Minneapolis, Minnesota.

Matthews, P.G., **Meng, R.**, Toomarian, E.Y., & Hubbard, E.M. (2016). The relational SNARC: Spatial representation of nonsymbolic ratios? Talk presented at the 38th Annual Conference of the Cognitive Science Society. Philadelphia, Pennsylvania, USA.

Meng, R., Matthews, P.G., Toomarian, E.Y., & Hubbard, E.M. (2016). The relational SNARC: Spatial representation of nonsymbolic ratios? Talk presented at the 4th Annual Midwest Meeting on Mathematical Thinking. Madison, Wisconsin.

Meng, R., Matthews, P.G., Toomarian, E.Y., & Hubbard, E.M. (2016). The relational SNARC: Spatial representation of nonsymbolic ratios? Poster presented at the UW-Madison Education Research Poster Fair. Madison, Wisconsin.

Meng, R. & Gao, X.F. (2014). On the relative speed account of SNARC effect in a perceptual judgment paradigm. Talk presented at the 17th National Academic Congress of Psychology. Beijing, China.

TEACHING EXPERIENCE

Teaching Assistant, University of Wisconsin-Madison
ED PSYCH 331: Human Development from Childhood through Adolescence
Spring 2018, Fall 2018, Spring 2019

Guest Lecture, University of Wisconsin-Madison
ED PSYCH 622: Structuring Secondary Schools for Adolescent Development
Summer 2017

Teaching Assistant, Peking University
Biostatistics
Spring 2014

Teaching Assistant, Beijing Normal University
Psychometrics
Fall 2010

MENTORING EXPERIENCE

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PROFESSIONAL SERVICE

Memberships

Cognitive Science Society
Mathematical Cognition and Learning Society

Ad-hoc reviewer

Cognitive Science

Graduate Student Ambassador

American Psychological Association, Division 15, Educational Psychology

Graduate Student Representative

Governing Board, Cognitive Science Society
Communications Committee, Cognitive Science Society
Strategic Planning Committee, Cognitive Science Society

Organizing Committee

Social Media Committee, 40th Annual Conference of Cognitive Science Society
Graduate Student and Postdoc Professional Development Forum
Communications Committee, 41th Annual Conference of Cognitive Science Society
Graduate Student and Postdoc Speed Mentoring

Volunteer

Student Volunteer, 39th Annual Conference of Cognitive Science Society
Student Volunteer, MathPsych/ICCM 2018 Annual Meeting
Student Volunteer, Wisconsin Prenatal to Five Summit

REFERENCES

Professor Martha Alibali (PhD advisor) martha.alibali@wisc.edu
Professor Percival Matthews (PhD advisor) pmatthews@wisc.edu
Professor Edward Hubbard (PhD mentor) emhubbard@wisc.edu