

Lei Yuan, Ph.D.

Indiana University	Email:	leiyuan@indiana.edu
Department of Psychological and Brain Sciences	Phone:	(812) 855-8256
1101 E. 10 th street, Bloomington, IN, 47405		

EDUCATION

Northwestern University, Evanston, IL, USA

- PhD, Cognitive Psychology, 2016
- Dissertation: The Role of Visual Attention in the Relational Representation from Spatial Symbols
Dissertation Committee: Steve Franconeri, David Uttal & Dedre Gentner

Northwestern University, Evanston, IL, USA

- M.S., Cognitive Psychology, 2012
- Thesis: Analogical reasoning in children's map reading.
Committee: David Uttal & Dedre Gentner

Beijing Linze University, Beijing, China

- B.S., Psychology, 2010

PUBLICATIONS

- **Yuan, L.**, Uttal, D.H., & Gentner, D. (2017). Analogical reasoning in children's understanding of spatial representations. *Developmental Psychology*. <https://doi.org/10.1037/dev0000302>
- **Yuan, L.**, Uttal, D.H. (2017). Analogy Lays the Foundation for Two Crucial Aspects of Symbolic Development: Intention and Correspondence. *Topics in Cognitive Science*
- **Yuan, L.**, Xu, L., Yu, C., & Smith, L. (2017). Seeing is Not Enough for Sustained Visual Attention. *To be appear in the Proceedings of the 39th Annual Conference of the Cognitive Science Society, London, UK.*
- **Yuan, L.**, Uttal, D.H., & Franconeri, S. L. (2016). Are spatial relations encoded by shifting visual attention between objects? *PloS one*, 11(10), e0163141. <https://doi.org/10.1371/journal.pone.0163141>
- Uttal, D. H., & **Yuan, L.** (2014). Using symbols: developmental perspectives. *Wiley Interdisciplinary Reviews: Cognitive Science*. 5(3), 295-304. <http://doi.org/10.1002/wcs.1280>

PUBLICATIONS IN PREPERATION

- **Yuan, L.**, Haroz, S., & Franconeri, S. L. (in prep). Magnitude Comparison in Visualizations.
- **Yuan, L.**, & Smith, L. (in prep). The Generalizability of Statistical Learning.
- **Yuan, L.**, & Smith, L. (in prep). Symbol Grounding or Not: the “Middle” Ground Hypothesis.
- **Yuan, L.**, Xu, L., Yu, C., & Smith, L. (in prep). Visual Attention is More Than Seeing: How Manual Actions Extend Toddlers’ Sustained Attention.

CONFERENCE AND INVITED TALKS

- **Yuan, L.**, Relational Representation from Spatial symbols. Indiana University, Developmental Seminar, 2016
- **Yuan, L.**, Franconeri, S., & Uttal, D.H. Guiding Attention to Children’s graph comprehension. University of Chicago, Developmental Psychology Brownbag, 2015
- **Yuan, L.**, Uttal, D.H., & Gentner, D. Analogy Facilitates Children’s Map Learning. Midwest Psychological Association Annual Meeting, Chicago, IL, USA, May 2012
- **Yuan, L.**, Uttal, D.H., & Gentner, D. The Effect of Analogy and Relational Language on Young Children’s Map Learning. International Conference on Spatial Cognition, Rome, Italy, August 2012
- **Yuan, L.**, Uttal, D.H., & Gentner, D. The Effect of Analogy and Relational Language on Young Children’s Map Learning. Spatial Cognition, Munich, Germany, August 2012
- **Yuan, L.**, Uttal, D.H., & Gentner, D. Analogy Facilitates Children’s Map Learning. NSF’s Annual Inter-Science of Learning Center Conference, San Diego, CA, USA, 2012

CONFERENCE POSTERS

- **Yuan, L.**, & Smith, L. The Generalizability of Statistical Learning. Biannual Meeting of Society for Research in Child Development, Austin, Texas, April 2017
- **Yuan, L.**, Franconeri, S., & Uttal, D.H. Guiding Attention to Children’s graph comprehension. Biannual Meeting of Society for Research in Child Development, Philadelphia, Pennsylvania, March 2015

- **Yuan, L., Uttal, D.H., & Gentner, D.** The Effect of Analogy and Iconicity on Young Children's Map Learning. Biannual Meeting of Cognitive Development Society, Memphis, Tennessee, October 2013
- **Yuan, L., Uttal, D.H., & Franconeri, S. L.** Low Capacity for Visual Spatial Relation Memory. The Vision Science Society Annual Meeting, Naples, Florida, May 2013
- **Yuan, L., Sauter, M., Uttal, D.H., & Gentner, D.** Map in A Snap: Can Comparison Facilitate Preschoolers' Understanding of Maps? Cognitive Science Society Annual Meeting, Boston, USA, July 2011

HONORS AND AWARDS

- University Fellowship, Northwestern University, Evanston, IL, USA, 2010-2016
- University Scholarship, Beijing Linye University, Beijing, China, 2007 - 2010
- National Scholarship, Beijing Linye University, Beijing, China, 2007

QUANTITATIVE SKILLS

- Proficient in programming software, e.g., Matlab
- Proficient in statistical software, e.g., R, SPSS
- Eye tracking data analysis and visualizations
- Adaptive psychophysical methods
- Advanced statistical skills, e.g., HLM
- Multisensory data collection and analysis

PROFESSIONAL MEMBERSHIPS

- Society for Research in Child Development
- Cognitive Development Society
- Cognitive Science Society
- Vision Science Society

TEACHING

Instructor:

- Developmental psychology, Northwestern University, Summer 2015

Teaching Assistant:

- Statistics, Northwestern University, Fall 2013

- Research methods, Northwestern University, Fall 2012
- Advanced Introduction of Psychology, Northwestern University, Fall 2011
- Cognitive Science, Northwestern University, Spring 2011
- Cognitive Psychology, Northwestern University, Winter 2010

Guest lecturer:

- Cognitive processes in social psychology, Northeastern University, Spring 2015
- Cognitive Psychology, Northeastern University, Fall 2014

SERVICES & OUTREACH

- Volunteer for the Schuler Scholar Program, Northwestern University, 2014
- Volunteer at the “Science of a Cocktail Party” event, Illinois Science Council, 2014
- Recruiter at Parent / child workshop event, Evanston Public Library, 2013
- Volunteer organizer at department graduate students recruitment, Northwestern University, 2012

REFERENCES

Dr. Linda Smith
 Department of Psychology
 Indiana University
 1101 E. 10th Street
 Bloomington, IN 47405
 (812) 855-6052
 smith4@indiana.edu

Dr. Chen Yu
 Department of Psychology
 Indiana University
 1101 E. 10th Street
 Bloomington, IN 47405
 (812) 856-0838
 chenyu@indiana.edu

Dr. Dedre Gentner
 Department of Psychology
 Northwestern University
 2029 Sheridan Road
 Evanston, IL 60208
 (847) 467-1925
 gentner@northwestern.edu

Dr. David Uttal
 Department of Psychology
 Northwestern University
 2029 Sheridan Road
 Evanston, IL 60208
 (847) 467-2035
 duttal@northwestern.edu

Dr. Steven Franconeri
 Department of Psychology
 Northwestern University
 2029 Sheridan Road
 Evanston, IL 60208
 (847) 467-1259
 franconeri@northwestern.edu