

Xiaoli Chen

Education

- 2014-present, postdoc researcher, DZNE, Magdeburg
Advisor: Dr. Thomas Wolbers
- 2009-2014, Vanderbilt University, USA, Ph.D. in Psychology
Doctoral program in Psychology: Cognition and Cognitive Neuroscience Program
Dissertation: Cue Integration in Spatial Navigation – a Bayesian Approach.
Advisor: Dr. Timothy P. McNamara
- 2007-2009, Sun Yat-Sen University, China, M.A. in Basic Psychology
Master's thesis: Active and passive short-term visual perceptual learning: an ERP study.
Advisor: Dr. Yulong Ding
- 2003-2007, Sun Yat-Sen University, China, B.A. in Applied Psychology

Publications

- **Chen, X.** & McNamara, T.P. (2014) "Bayesian cue interaction in human spatial navigation." *Spatial Cognition IX*: 147-160
- **Chen, X.** & McNamara, T.P. (2011). "Object-centered reference systems and human spatial memory." *Psychon Bull Rev* **18**(5): 985-991.
- **Chen, X.**, Qu, Z., Wang Y., & Ding, Y. (2008). "Diagonal mirror-transfer in perceptual learning of orientation discrimination." *Acta Psychologica Sinica*, *40*, 969-974. *(in Chinese)*

Working Papers

- **Chen, X.**, He, Q., Kelly, J.W., Fiete, I.R., & McNamara, T.P. "Environmental Geometry and Human Path Integration." *(submitted)*
- **Chen, X.**, & McNamara, T.P. "Neural network models of spatial navigation." *(in preparation)*

Conference Presentations

- **Chen, X.**, McNamara, T.P., & Kelly, J.W. (2012). "Grid cells and human path integration." Poster, Psychonomic Society 53rd Annual Meeting.
- **Chen, X.**, & McNamara, T.P. (2011). "Object-centered reference systems and human spatial memory." Poster, Psychonomic Society 52nd Annual Meeting.

Major course work

- **Graduate**
 - Models of Human Memory
 - Computational Modeling
 - Brain Imaging Methods
 - Neuroscience of Consciousness
- **Master**
 - EEG techniques
 - Multi-variable Statistics in Psychology

Programming and statistical skills

- Worldviz
- Matlab
- Psychtoolbox
- E-prime
- SPSS
- R
- Hands-on experience with factor analysis, meta-analysis, structural equation modeling, and path analysis.

Professional Membership and Service

Memberships

- Spatial Intelligence and Learning Center (SILC) Spatial Network.

Reviewing

- Psychonomic Bulletin & Review (Ad Hoc).

Teaching Experience

- PSY 101, Introduction to Psychology
Teaching assistant, Sep.-Dec. 2010.
- PSY 209, Quantitative Methods in Psychology

Teaching assistant, Jan.-May 2011, Sep.-Dec. 2012, Jan. – May 2014.

- PSY 208, Experimental Principles and Design.

Teaching assistant, Jan.-May 2012, Sep.-Dec. 2013.