

## Likan Zhan

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## Academic appointment

- 2014.10 ~ Now, Assistant professor,  
MEG Laboratory for Brain Sciences,  
Institute for Speech Pathology and the Brain Science,  
Beijing Language and Culture University, Beijing, China

## Education

- 2010.10 ~ 2014.09, Ph.D. Cognitive Science,  
Macquarie University, Sydney, Australia
- 2007.09 ~ 2010.07, M.E. Cognitive Psychology,  
Beijing Language and Culture University, Beijing, China
- 2000.09 ~ 2004.07, B.A. Teaching Chinese as a Second Language,  
Beijing Language and Culture University, Beijing, China

## Teaching responsibilities

- Statistics for the Behavioral Sciences, [More Info ...](#)
- R for Modeling and Visualizing Data, [More Info ...](#)
- Introduction to Cognitive Neuroscience, [More Info ...](#)
- Foundations of Scientific Research, [More Info ...](#)

## Professional skills

- Statistics. I taught two statistical courses to master students. I have moderate experience in using *R* for statistical modeling and data visualization. Besides the basic ones, I used the following *R* packages a lot: *data.table*, *dplyr*, *ggplot2*, *car*, *lme4*, *gam* etc. I also created a *R* package myself, called *acqr*.
- Experimental techniques. I'm familiar with *E-prime*, *Psychopy*, *Psychtoolbox*, and *Pre-sentation* for presenting test stimuli. I have advanced experience in using EyeLink II/1000 plus (SR Research Ltd.), such as *Experiment Builder* for experiment building, and *Data Viewer* for data analysis. I am in charge of establishing the first Child MEG lab in China, familiar with *Yokogawa* MEG system for equipment maintenance and MEG data acquisition. I'm also familiar with *BESA*, and some Matlab packages for analyzing the E/MEG data, such as *fieldtrip* and *SPM12*.
- Typesetting. I like to write with LaTeX, Markdown, and R Markdown. I created a [personal website](#) with *hugo* and *blogdown*.

## Grants and awards

### 1. Grants

- 2015 - 2016. Experimental explorations of possible world semantics, The Fundamental Research Funds for the Central Universities, [Grant No.: 15YBB29], Zhan, L., ¥20,000.
- 2015 - 2016. Introduction to psychology and introduction to scientific research, The Funds Supporting the Growth of the New Teachers, [Grant No.: FD201530], Zhan, L., ¥7,000.
- 2015 - 2016. Processing and acquisition of tone perception in Mandarin Chinese, The Fundamental Research Funds for the Central Universities, [Grant No.: 15YJ050003], Zhan, L., Shi, F., Gao, L., & Zhang, L., ¥70,000.
- 2010 - 2014. The interpretation of conditionals in natural language, Cognitive Science Post-graduate Research Grant of Macquarie University, Zhan, L., \$10,570.
- 2013.10. The hypothetical property of conditionals in natural language, Macquarie University Postgraduate Research Fund, Zhan, L., \$4,684.

## 2. Awards

- 2013.11. 38th Boston University Conference on Language Development, Paula Menyuk Travel Award, \$300.
- 2013.04. 26th Annual CUNY Sentence Processing Conference, Travel Award, \$350.

## Publications

### 1. Book

- **Zhan, L.** (2015). *The Interpretation of Conditionals in Natural Language*. Saarbrücken, Germany: Lap Lambert Academic Publishing.

### 2. Periodicals

- **Zhan, L.** (2018). Using eye movements recorded in the visual world paradigm to explore the online processing of spoken language. *Journal of Visualized Experiments*, 140, e58086. doi: 10.3791/58086 [FullText](#)
- Zhou, P., Ma, W., **Zhan, L.**, & Ma, H (2018). Using the visual world paradigm to study sentence comprehension in Mandarin-speaking children with autism. *Journal of Visualized Experiments*, 140, e58452. doi: 10.3791/58452 [FullText](#)
- **Zhan, L.**, Zhou, P., & Crain, S. (2018). Using the visual-world paradigm to explore the meaning of conditionals in natural language. *Language, Cognition and Neuroscience*, 33(8), 1049-1062. doi: 10.1080/23273798.2018.1448935 [FullText](#)
- **Zhan, L.** (2018). Scalar and ignorance inferences are both computed immediately upon encountering the sentential connective: The online processing of sentences with disjunction using the visual world paradigm. *Frontiers in Psychology*, 9. doi: 10.3389/fpsyg.2018.00061 [FullText](#)
- Moscati, V., **Zhan, L.**, & Zhou, P. (2017). Children's on-line processing of epistemic modals. *Journal of Child Language*, 44(5), 1025-1040. doi: 10.1017/S0305000916000313 [FullText](#)

- **Zhan, L.**, Crain, S., & Zhou, P. (2015). The online processing of only if- and even if-conditional statements: Implications for mental models. *Journal of Cognitive Psychology*, 26(7), 367-379. doi: 10.1080/20445911.2015.1016527 [FullText](#)
- Zhou, P., Crain, S., & **Zhan, L.** (2014). Grammatical aspect and event recognition in children's online sentence comprehension. *Cognition*, 133(1), 262-276. doi: 10.1016/j.cognition.2014.06.018 [FullText](#)
- Zhou, P., Crain, S., & **Zhan, L.** (2012). Sometimes children are as good as adults: The pragmatic use of prosody in children's on-line sentence processing. *Journal of Memory and Language*, 67(1), 149-164. doi: 10.1016/j.jml.2012.03.005 [FullText](#)
- Zhou, P., Su, Y., Crain, S., Gao, L., & **Zhan, L.** (2012). Children's use of phonological information in ambiguity resolution: a view from Mandarin Chinese. *Journal of Child Language*, 39(04), 687-730. doi: 10.1017/S0305000911000249 [FullText](#)

### 3. Conference proceedings

- **Zhan, L.**, Crain, S., & Zhou, P. (2013). The anticipatory effects of focus operators: A visual-world paradigm eye-tracking study of "only if" and "even if" conditionals. In N. Goto, K. Otaki, A. Sato, & K. Takita (Eds.), *Proceedings of GLOW in Asia IX 2012*. Mie University, Japan.

### 4. Conference presentations

- **Zhan, L.** (2017, September). *Scalar implicature and ignorance inference are both locally computed: Evidence from the online processing of disjunctions using the visual world paradigm*. Paper presented at the Second High-level Forum on Cognitive Linguistics, University of International Business and Economics, Beijing, China
- Moscati, V., **Zhan, L.**, & Zhou, P. (2013). Reasoning on possibilities: An eye tracking study on modal knowledge. In *the 38th Annual Boston University Conference on Language Development*. Boston, USA.

- **Zhan, L.**, Crain, S., & Zhou, P. (2013). Going beyond the information that is perceived: The hypothetical property of if-conditionals in Mandarin Chinese. In the *Second International Conference on Psycholinguistics in China*. Fuzhou, China.
- **Zhan, L.**, Crain, S., & Zhou, P. (2013). The hypothetical property of “if”-statements: A visual- world paradigm eye-tracking study. In *CUNY2013: The 26th annual CUNY Sentence Processing Conference*. Columbia, SC.
- **Zhan, L.**, Crain, S., & Zhou, P. (2013). The interpretation of conditionals. In the *7th International Conference on Thinking (ICT2012)*. Birkbeck/UCL, London, UK.
- Zhou, P., Crain, S., & **Zhan, L.** (2013). Anticipatory eye movements in children’s processing of grammatical aspect. In the *38th Annual Boston University Conference on Language Development*. Boston University, United States.
- Zhou, P., Crain, S., & **Zhan, L.** (2012). Children’s pragmatic use of prosody in sentence processing. In the *35th Generative Linguistics in the Old World (GLOW) Workshop: Production and Perception of Prosodically-Encoded Information Structure*. University of Potsdam, Potsdam, Germany.
- **Zhan, L.**, Crain, S., & Khlentzos, D. (2011). The basic semantics of conditionals in natural language. In *The Harvard-Australia Workshop on: Language, Learning and Logic*. Macquarie University, Sydney, Australia.
- Zhou, P., Crain, S., Gao, L., & **Zhan, L.** (2010). The role of prosody in children’s focus identification. In the *Generative Approaches to Language Acquisition - North America 4 (GALANA- 4)*. Toronto, Canada.
- Zhou, P., Su, Y., Crain, S., Gao, L., & **Zhan, L.** (2010). Children’s use of prosodic information in ambiguity resolution. In the *8th Conference of Generative Linguistics in the Old World Asia (GLOW-in-Asia 8)*. Beijing, China.