

# 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 R, 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 [Presentation](#) 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](#).
- Writing. I like to write with LaTeX, Markdown, and R Markdown. I created my [personal website](#) with [hugo](#) and [blogdown](#).

## Grants and awards

### 1. Grants

- *The Fundamental Research Funds for the Central Universities [15YBB29]* (2015 - 2016) "Experimental explorations of possible world semantics." Zhan, L. (¥20,000)
- *The Funds Supporting the Growth of the New Teachers [FD201530]* 2015 - 2016 "Introduction to psychology and introduction to scientific research." Zhan, L. (¥7,000)
- *The Fundamental Research Funds for the Central Universities, [15YJ050003]* (2015 - 2016) "Processing and acquisition of tone perception in Mandarin Chinese" Zhan, L., Shi, F., Gao, L., & Zhang, L. (¥70,000)
- *Cognitive Science Postgraduate Research Grant of Macquarie University* (2010 - 2014) "The interpretation of conditionals in natural language" Zhan, L. (\$10,570)

- *Macquarie University Postgraduate Research Fund* (2013) "The hypothetical property of conditionals in natural language" 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

- Zhou, P., **Zhan, L.**, & Ma, H. (2018). Predictive language processing in preschool children with Autism Spectrum Disorder: An eye-tracking study. *Journal of Psycholinguistic Research*. doi:10.1007/s10936-018-9612-5 ([PDF](#))
- **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 ([PDF](#))
- 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 ([PDF](#))
- **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 ([PDF](#))

- **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 ([PDF](#))
- 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 ([PDF](#))
- **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 ([PDF](#))
- 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 ([PDF](#))
- 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 ([PDF](#))
- 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 ([PDF](#))

### 3. Book chapters and conference proceedings

- **Zhan, L.** (2018). Magnetoencephalography (MEG) as a Technique for Imaging Brain Function and Dysfunction. In *Top 10 Contributions on Psychology* (Chapter 4, pp. 1-38). Telangana, India: Avid Science
- **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 and invited talks

- **Zhan, L.** (2018, December). *Sentential Reasoning and Sentential Connectives: Conditional, Disjunction, Negation, and Modality*. Invited presentation given at the Workshop of Theoretical and Experimental Linguistics, Tsinghua University, Beijing, China. ([PDF](#))
- **Zhan, L.** (2018, November). *Methods of Cognitive Neuroscience: Focus on Language*. Invited presentation given at the Child Cognition Laboratory, Department of Foreign Languages and Literatures, Tsinghua University, Beijing, China. ([PDF](#))
- **Zhan, L.** (2018, November). *Visual world paradigm: An eye-tracking technique to study the real time processing of spoken Language*. Invited presentation given at the Center for Studies of Chinese as a Second Language, Beijing Language and Culture University, Beijing, China. ([PDF](#))
- **Zhan, L.** (2018, October). *Experimental Builder: A What-You-See-Is-What-You-Get tool to build experiment scripts*. Invited presentation given at the Center for Studies of Chinese as a Second Language, Beijing Language and Culture University, Beijing, China. ([Example materials](#))
- **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. ([PDF](#))
- **Zhan, L., Crain, S., & Zhou, P.** (2013, November). *Going beyond the information that is perceived: The hypothetical property of if-conditionals in Mandarin Chinese*. Paper session presented at the Second International Conference on Psycholinguistics in China, Fuzhou, China.
- Moscati, V., **Zhan, L., & Zhou, P.** (2013, November). *Reasoning on possibilities: An eye tracking study on modal knowledge*. Poster session presented at the 38th Annual Boston University Conference on Language Development, Boston University, MA.
- Zhou, P., Crain, S., & **Zhan, L.** (2013, November). *Anticipatory eye movements in children's processing of grammatical aspect*. Poster session presented at the 38th Annual Boston University Conference on Language Development, Boston University, MA.

- **Zhan, L.**, Crain, S., & Zhou, P. (2013, March). *The hypothetical property of "if"-statements: A visual-world paradigm eye-tracking study*. Poster session presented at CUNY2013: The 26th annual CUNY Sentence Processing Conference, Columbia, SC.
- **Zhan, L.**, Crain, S., & Zhou, P. (2012, July). *The interpretation of conditionals*. Paper presented at the 7th International Conference on Thinking (ICT2012), Birkbeck/UCL, London, UK.
- Zhou, P., Crain, S., & **Zhan, L.** (2012, March). *Children's pragmatic use of prosody in sentence processing*. Poster session presented at 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, August). *The basic semantics of conditionals in natural language*. Paper presented at the Harvard-Australia Workshop on Language, Learning and Logic, Macquarie University, Sydney, Australia.
- Zhou, P., Crain, S., Gao, L., & **Zhan, L.** (2010, September). *The role of prosody in children's focus identification*. Paper presented at the Generative Approaches to Language Acquisition - North America 4 (GALANA-4), Toronto, Canada.
- Zhou, P., Su, Y., Crain, S., Gao, L., & **Zhan, L.** (2010, August). *Children's use of prosodic information in ambiguity resolution*. Paper presented at the 8th Conference of Generative Linguistics in the Old World Asia (GLOW-in-Asia 8), Beijing, China.