

# Jixing Li

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🔄 jixing-li

## EMPLOYMENT

2018 – present      Post-doctoral Fellow, New York University Abu Dhabi

- Supervisor: Liina Pylkkänen

## EDUCATION

2013 – 2018      Ph.D., Linguistics, Cornell University

- Thesis: *Neural mechanisms of pronoun resolution*.
- Supervisor: John Hale

2016 – 2018      Graduate Minor, Cognitive Science, Cornell University

2011 – 2012      M.Sc., Experimental Psychology, Oxford University

- Thesis (*with Distinction*): *Sonority, size and shape in sound symbolism*.
- Supervisor: Charles Spence

2009 – 2010      M.A., Linguistics, University College London

- Thesis (*with Distinction*): *"Root infinitives" in child Chinese*.
- Supervisor: Ad Neeleman

2005 – 2009      B.A., English Language and Literature, Beijing Normal University

2006 – 2009      Double B.A., Chinese Language and Literature, Beijing Normal University

## GRANTS

2016 – 2017      Jeffrey Sean Lehman Fund for Scholarly Exchange with China (Co-PI): \$13,000

Awarded for launching collaboration between the Jiangsu Key Lab of Linguistic Science and the Cornell Linguistics Department. Cornell University.

## AWARDS & FELLOWSHIPS

2019	CNS2019 Postdoctoral Fellow Award Cognitive Neuroscience Society
2018	SNL2018 Travel Award Society for the Neurobiology of Language
2017	SNL2017 Travel Award Society for the Neurobiology of Language
Spring, 2017	Dean's Excellence Fellowship Cornell University
Fall, 2017	SAGE Fellowship Cornell University
2016	IPA Student Award for Speech Prosody 2016 International Phonetic Association
Summer, 2016	International Research Travel Grant Mario Einaudi Center for International Studies, Cornell University
Fall, 2015	C.V. Starr Fellowship East Asian Program, Cornell University
2013-2014	SAGE Fellowship Cornell University
2006-2009	Outstanding Student Scholarship Beijing Normal University

## PEER-REVIEWED JOURNAL ARTICLES

under review	Li, J., Bhattasali, S., Zhang, S., Franzluebbers, B., Luh, W., Spreng, R. N., Brennan, J., Yang, Y., Pallier, C., & Hale, J. (under review). Le Petit Prince: A multilingual fMRI corpus using ecological stimuli.
under review	Li, J., Wang, S., Luh, W., Pylkkänen, L., Yang, Y., & Hale, J. (under review). Cortical processing of reference in language revealed by computational models.
under review	Zhang, S., Li, J., Yang, Y., & Hale, J. (under review). Decoding the silence: Neural bases of zero pronoun resolution in Chinese.
under review	Dunagan, D., Zhang, S., Li, J., Bhattasali, S., Pallier, C., Whitman, J., Yang, Y., & Hale, J. (under review). Neural correlates of semantic number: A cross-linguistic investigation.
in press	Hale, J., Campanelli, L., Li, J., Pallier, C., & Brennan, J. (under review). Neuro-computational models of language processing.
2021	Li, J., & Pylkkänen, L. (2021). Disentangling semantic composition and semantic association in the left temporal lobe. <i>Journal of Neuroscience</i> , 41: 6526-6538.

- 2017 Klemens, K., Li, J., Maggioni, E., & Spence, C. (2017). What drives sound symbolism? Different acoustic cues underlie sound-size and sound-shape mappings. *Scientific Reports*, 7: 5562.

## PEER-REVIEWED CONFERENCE PAPERS

- 2018 Li, J., Fabre, M., Luh, W. & Hale, J. (2018). Modeling brain activity associated with pronoun resolution in English and Chinese. *Proceedings of the First Workshop on Computational Models of Reference, Anaphora and Coreference (CRAC)*. 87-96.
- 2018 Li, J., Fabre, M., Luh, W. & Hale, J. (2018). The role of syntax during pronoun resolution: Evidence from fMRI. *Proceedings of the Eight Workshop on Cognitive Aspects of Computational Language Learning and Processing (CogACLl)*. 56-64.
- 2016 Li, J., Brennan, J., Mahar, A. & Hale, J. (2016). Temporal lobes as combinatory engines for both form and meaning. *Proceedings of the Workshop on Computational Linguistics for Linguistic Complexity (CL4LC)*. 186-191.
- 2016 Li, J., & Tilsen, S. (2016). Early prosodic manifestations of disfluency. *Proceedings of Speech Prosody*. 1235-1239.
- 2015 Li, J., & Tilsen, S. (2015). Phonetic evidence for two types of disfluency. *Proceedings of ICPHS*. 668.

## BOOK CHAPTERS

- 2019 Li, J., & Hale, J. (2019). Grammatical predictors for fMRI timecourses. Stabler, E., & Berwick, R. (Eds.). *Minimalist Parsing*. Oxford University Press.

## MANUSCRIPTS

- in prep. Li, J., Wang, S., & Pylkkänen, L. (in prep.). Modeling the neural composition function involved in semantic combination.

## INVITED TALKS & WORKSHOPS

- 2021 Li, J. (2021). Workshop on grammatical predictors for fMRI studies. *Invited workshop for the The Leipzig Lectures on Language End-of-Year Symposium*, Oct 20-21, 2021.
- 2021 Li, J. (2021). Cortical processing of pronoun resolution revealed by computational models. *Invited presentation for the SNL Symposium: What can NLP systems teach us about language in the brain?*, Oct 8, 2021.
- 2021 Li, J. (2021). Modeling pronoun resolution in the brain. *Invited talk at Workshop on Computational Neurolinguistics (WCNL2021)*, Nanjing Normal University, Aug 21, 2021.
- 2021 Li, J. (2021). Referential processing in the brain. *Invited talk for the Language in Interaction Consortium, Donders Center / Max Plank Institute, the Netherlands*, June 21, 2021.
- 2021 Li, J. & Hale, J. (2021). Neuro-computational models of language processing: The case of reference and coreference. *Invited talk for the Leipzig Lectures on Language, Max Plank Institute for Human Cognitive and Brain Sciences*, May 26, 2021.

- 2021 Li, J. (2021). Cortical processing of reference in language revealed by computational models. *Invited presentation at the Neurolinguistics Lab, University of Maryland, April 27, 2021.*

## CONFERENCE PRESENTATIONS

- 2021 Li, J., Luh, W., Pylkkänen, L., Yang, Y., & Hale, J. (2021). Modeling pronoun resolution in the brain. Poster presented virtually at the 3rd Chinese Conference of Computational and Cognitive Neuroscience (CCCN), June 11-13, 2021. *CCCN2021 Best Poster Award.*
- 2021 Li, J., Luh, W., Pylkkänen, L., Yang, Y., & Hale, J. (2021). Modeling pronoun resolution in the brain. Data Blitz presented virtually at the Cognitive Neuroscience Society (CNS), March 13-16, 2021.
- 2021 Zhang, S., Li, J., & Hale, J. (2021). Neural mechanisms of zero pronoun resolution in Chinese. Poster presented virtually at the Cognitive Neuroscience Society (CNS), March 13-16, 2021.
- 2021 Li, J., Luh, W., Pylkkänen, L., Yang, Y., & Hale, J. (2021). Modeling pronoun resolution in the brain. Poster presented virtually at the Society for Neuroscience (SfN): Global Connectome, January 11-13, 2021.
- 2020 Donald, D., Zhang, S., Li, J., Pallier, C., Whitman, J. & Hale, J. (2020). Grammatical number in French and Chinese brains. Poster presented virtually at the Society for the Neurobiology of Language (SNL), October 21-25, 2020.
- 2020 Li, J., & Pylkkänen, L. (2020). Disentangling semantic association from semantic composition in the LATL. Poster presented virtually at the 33rd Annual CUNY Conference on Human Sentence Processing (CUNY), March 19-21, 2020.
- 2019 Li, J., & Pylkkänen, L. (2019). Disentangling semantic association from semantic composition in the LATL. Poster presented at the 11th Annual Society for the Neurobiology of Language Conference (SNL), Helsinki, Finland, August 20-22, 2019.
- 2019 Zhang, S., Li, J., Luh, W., & Hale, J. (2019). Human brain networks for semantic roles: An fMRI study. Poster presented at the 11th Annual Society for the Neurobiology of Language Conference (SNL), Helsinki, Finland, August 20-22, 2019.
- 2019 Li, J., & Hale, J. (2019). Tracking the subprocesses of pronoun resolution during naturalistic comprehension. Poster presented at the Cognitive Neuroscience Society (CNS), San Francisco, USA, March 23-26, 2019. *CNS2019 Postdoctoral Fellow Award.*
- 2018 Li, J., Fabre, M., Luh, W., & Hale, J. (2018). fMRI evidence for binding theory during anaphora resolution in naturalistic listening. Poster presented at the Society for the Neurobiology of Language (SNL), Quebec, Canada, August 16-18, 2018.
- 2018 Li, J., Fabre, M., Luh, W., & Hale, J. (2018). Neural mechanisms of pronoun resolution in Chinese during naturalistic listening. Poster presented at Architectures and Mechanisms of Language Processing (AMLaP), Berlin, Germany, September 6-8, 2018.
- 2018 Li, J., Fabre, M., Luh, W., & Hale, J. (2018). fMRI evidence for binding theory during anaphora resolution in naturalistic listening. Poster presented at the Society for the Neurobiology of Language (SNL), Quebec, Canada, August 16-18, 2018. *SNL2018 Travel Award.*

- 2018      **Li, J.,** Fabre, M., Luh, W., & Hale, J. (2018). The role of syntax during pronoun resolution: Evidence from fMRI. Paper presented at the ACL Workshop on Cognitive Aspects of Computational Language Learning and Processing (*CogACLL*), Melbourne, Australia, July 19, 2018.
- 2018      **Li, J.,** Fabre, M., Luh, W., & Hale, J. (2018). Modeling brain activity associated with pronoun resolution in English and Chinese. Paper presented at the NAACL Workshop on Computational Models of Reference, Anaphora, and Coreference (*CRAC*), New Orleans, USA, June 9, 2018.
- 2017      **Li, J.,** Pallier, C., Yang, Y., & Hale, J. (2017). Neural correlates of semantic coherence in English and Chinese speakers during natural language comprehension. Poster presented at the Society for the Neurobiology of Language (*SNL*), Baltimore, USA, November 8-10, 2017. *SNL2017 Travel Award*.
- 2017      Hale, J., Bhattasali, S., Brennan, J., **Li, J.,** Luh, W., & Pallier, C. (2017). Localizing structure-building and memory retrieval in naturalistic language comprehension. Poster presented at the Society for the Neurobiology of Language (*SNL*), Baltimore, USA, November 8-10, 2017.
- 2016      **Li, J.,** Hale, J., Mahar, A., & Brennan, J. (2016). Temporal lobes as combinatory engines for both form and meaning. Poster presented at the Workshop on Computational Linguistics for Linguistic Complexity (*CL4LC, COLING*), Osaka, Japan, December 11, 2016.
- 2016      **Li, J.,** & Tilsen, S. (2016). Early prosodic manifestations of disfluency. Paper presented at Speech Prosody, Boston, May 31-June 3, 2016. *IPA Student Award*.
- 2016      **Li, J.,** & Tilsen, S., Phonetic evidence for two types of disfluency. Paper presented at the Linguistic Society of America (*LSA*), Washington, USA, January 7-10, 2016.
- 2015      **Li, J.,** & Tilsen, S., (2015). Phonetic evidence for two types of disfluency. Poster presented at the 18th International Congress of Phonetic Sciences (*ICPhS*), Glasgow, UK, August 10-14, 2015.
- 2013      **Li, J.,** Klemens, K., & Spence, C. (2013). Sonority, shape and size in sound symbolism. Poster presented at the Linguistic Society of America (*LSA*), Boston, USA, January 3-6, 2013.
- 2012      **Li, J.** (2012). "Root infinitives" in child Chinese. Paper presented at the 1st Workshop on Syntax and Semantics in China, Nanjing, China, June 16-17, 2012.

## TEACHING

Lead TA: July 5-July 23, 2021	Computational Neuroscience Neuromatch Academy
TA: Fall, 2016	PSYCH 4360: Language Development Department of Human Development, Cornell University
Instructor: Spring, 2016	CHIN 2202: Intermediate Mandarin II Department of Asian Studies, Cornell University

Instructor: CHIN 2202: Intermediate Mandarin II  
Spring, 2015 Department of Asian Studies, Cornell University

Instructor: CHIN 2202: Intermediate Mandarin I  
Fall, 2014 Department of Asian Studies, Cornell University

## **SERVICE & MEMBERSHIP**

Reviewer Nature Machine Intelligence  
Journal of Cognitive Neuroscience  
Journal of Experimental Psychology: Learning, Memory, and Cognition  
Visual Cognition  
Annual Meeting of the Cognitive Science Society (CogSci)

Member Society for Neuroscience  
Cognitive Neuroscience Society  
Society for the Neurobiology of Language  
Association for Computational Linguistics  
Linguistic Society of America  
International Phonetic Association

## **NATURAL LANGUAGES**

Mandarin Chinese (native), English

## **PROGRAMMING LANGUAGES**

Python, Matlab, R, Shell Scripting