

# Jixing Li [ˈtʃiːŋ li]

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🌐 <https://compneurolinglab.github.io>

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## EMPLOYMENT

- 2022 – Assistant Professor  
Department of Linguistics and Translation, City University of Hong Kong  
Assistant Professor, Affiliate  
Department of Social and Behavioral Sciences, City University of Hong Kong
- 2018 – 2022 Post-doctoral Fellow, New York University Abu Dhabi
- Supervisor: Liina Pyykkänen

## EDUCATION

- 2013 – 2019 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, University of Oxford
- 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

- 2023 – 2025 CityU Strategic Interdisciplinary Research Grant (PI): \$299,420 HKD  
Modeling associative encoding of speech sounds in rat and human auditory cortex. City University of Hong Kong.

- 2022 – 2024 CityU Start-up Grant (PI): \$300,000 HKD  
Neural mechanisms of speech comprehension in a cocktail party situation. City University of Hong Kong.
- 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

- 2023 HKTech 300 Best Pitch Award  
City University of Hong Kong
- 2021 CCCN2021 Best Poster Award  
Chinese Conference of Computational and Cognitive Neuroscience
- 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

- 2022 Li, J., Bhattasali, S., Zhang, S., Franzluebbbers, B., Luh, W., Spreng, R. N., Brennan, J., Yang, Y., Pallier, C., & Hale, J. (2022). *Le Petit Prince* multilingual naturalistic fMRI corpus. *Scientific Data*, 9, 530.

- 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.
- 2022 Dunagan, D., Zhang, S., Li, J., Bhattasali, S., Pallier, C., Whitman, J., Yang, Y., & Hale, J. (2022). Neural correlates of semantic number: A cross-linguistic investigation. *Brain and Language*, 229, 105110.
- 2022 Hale, J., Campanelli, L., Li, J., Pallier, C., & Brennan, J. (2022). Neuro-computational models of language processing. *Annual Review of Linguistics*, 8, 427-446.
- 2022 Zhang, S., Li, J., Yang, Y., & Hale, J. (2022). Decoding the silence: Neural bases of zero pronoun resolution in Chinese. *Brain and Language*, 224: 105050.
- 2021 Li, J., & Pylkkänen, L. (2021). Disentangling semantic composition and semantic association in the left temporal lobe. *Journal of Neuroscience*, 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 (CogACL)*. 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.

## INVITED TALKS & WORKSHOPS

- 2022 Li, J. (2022). Language processing in naturalistic and experimental paradigms. *Presentation at Cognition and Cognitive Neuroscience (CCN) Brownbag series, University of California, Riverside, November 30, 2022*.
- 2022 Li, J. (2022). Modeling language processing at multiple timescales. *Presentation at the Basque Center On Cognition, Brain and Language (BCBL), Spain, April 25, 2022*.

- 2022 **Li., J.** (2022). Modeling language processing at multiple timescales. *Presentation at the Chang Lab, University of California, San Francisco, March 30, 2022.*
- 2022 **Li., J.** (2022). Modeling language processing in naturalistic and controlled experiments. *Presentation at the Stanford Cognitive & Systems Neuroscience Laboratory, Stanford University, February 24, 2022.*
- 2022 **Li., J.** (2022). Modeling language processing in naturalistic and controlled experiments. *The LT Research Forum Series, City University of Hong Kong, January 25, 2022.*
- 2021 **Li., J.** (2021). Modeling language processing in naturalistic and controlled experiments. *Presentation at the Hasson Lab, Princeton University, December 3, 2021.*
- 2021 **Li., J.** (2021). Analysis of neuroimaging data using naturalistic designs. *NYUAD Neuroimaging Science Talks, November 24, 2021.*
- 2021 **Li., J.** (2021). Grammatical predictors for fMRI time-courses during naturalistic listening. *Workshop for the Leipzig Lectures on Language End-of-Year Symposium, October 20-21, 2021.*
- 2021 **Li., J.** (2021). Cortical processing of pronoun resolution revealed by computational models. *SNL Symposium: What can NLP systems teach us about language in the brain?, October 8, 2021.*
- 2021 **Li., J.** (2021). Modeling pronoun resolution in the brain. *Workshop on Computational Neurolinguistics (WCNL2021), Nanjing Normal University, August 21, 2021.*
- 2021 **Li., J.** (2021). Referential processing in the brain. *Language in Interaction Consortium, Donders Center / Max Planck Institute, the Netherlands, June 21, 2021.*
- 2021 **Li., J. & Hale, J.** (2021). Neuro-computational models of language processing: The case of reference and coreference. *The Leipzig Lectures on Language, Max Planck Institute for Human Cognitive and Brain Sciences, May 26, 2021.*
- 2021 **Li., J.** (2021). Cortical processing of reference in language revealed by computational models. *Presentation at the Neurolinguistics Lab, University of Maryland, April 27, 2021.*

## CONFERENCE PRESENTATIONS

- 2023 **Li, J., Wang, Q., Zhou, Q., Huang, S. & Huang, Z.** (2022). Modeling multi-talker speech comprehension in normal and hearing-impaired listeners. Poster presented at the 30th Anniversary Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, USA, March 25-28, 2023.
- 2022 **Li, J., Lai, M., & Pylkkänen, L.** (2022). Meaning composition in two-word and naturalistic listening paradigms. Poster presented at the 14th Annual Society for the Neurobiology of Language Conference (SNL), Pennsylvania, USA, October 6-8, 2022.
- 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

Semester B, 2023	LT2206 Fundamentals of Statistics for Language Sciences Department of Linguistics and Translation, City University of Hong Kong
Semester A and B, 2022-2023	LT3233 Computational Linguistics Department of Linguistics and Translation, City University of Hong Kong
Semester A, 2022	LT5903 Language and Its Applications Department of Linguistics and Translation, City University of Hong Kong
Lead TA: July 5-23, 2021	Computational Neuroscience Neuromatch Academy

## SERVICE & MEMBERSHIP

Editorial Board	Communications Psychology
Ad-hoc Reviewer	Nature Machine Intelligence Neuroimage Cerebral Cortex Journal of Cognitive Neuroscience Journal of Neurolinguistics 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