Jiangtian Li

jiangtianli91@gmail.com

Academic Positions

Postdoctoral Fellow, Department of Linguistics, University of Toronto

2025-

Advisor: Daphna Heller

Postdoctoral Fellow, Department of Psychology, University of Toronto Scarborough

2020-2025

Advisor: Blair Armstrong

Education

PhD in Philosophy, Western University

2016-2020

Advisor: Robert Stainton

Dissertation: On Polysemy: A Philosophical, Psycholinguistic, and Computational Study

Research Associate, Department of Psychology, Brain and Mind Institute, Western University

2017-2020

Advisor: Marc Joanisse

MA in Philosophy, Western University

2015-2016

Advisor: Robert Stainton

Thesis: Names are Also Polysemous

BA in Philosophy, Minzu University of China

2009-2013

Advisor: Jixuan Zhang

Thesis: Truth and Meaning — a Defense of Propositional Deflationism

Areas of Specialization and Competence

Areas of Specialization: Philosophy of Language and Mind, Cognitive Science of Language, and Computa-

tional Linguistics

Areas of Competence: Philosophy of Psychology, Natural Language Processing

Publications

Peer-Reviewed Journal Articles

- Li, J., & Armstrong, B. C. (2025). Issues of generalization from unreliable or unrepresentative stimuli: Broad lessons from lexical ambiguity. *Open Mind*, 9, 1185–1250. https://doi.org/10.1162/opmi.a.21
- Li, J. (2024). Semantic Minimalism and the Continuous Nature of Polysemy. *Mind & Language*, 1–26. https://doi.org/10.1111/mila.12509
- Li, J., & Armstrong, B. C. (2024). Probing the Representational Structure of Regular Polysemy via Sense Analogy Questions: Insights from Contextual Word Vectors. *Cognitive Science*, 48(3), e13416. https://doi.org/10.1111/cogs.13416
- Li, J., & Joanisse, M. F. (2021). Word Senses as Clusters of Meaning Modulations: A Computational Model of Polysemy. *Cognitive Science*, 45(4), e12955. https://doi.org/10.1111/cogs.12955

Peer-Reviewed Proceedings Articles

- Li, J., & Armstrong, B. C. (2024). Issues of Generalization from Unreliable or Unrepresentative Psycholinguistic Stimuli: A Case Study on Lexical Ambiguity. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 46. https://escholarship.org/uc/item/52c2s25s (Among the top 19% of all submissions)
- Li, J., & Armstrong, B. C. (2023). Probing the Representational Structure of Regular Polysemy in a Contextual Word Embedding Model via Sense Analogy Questions. *Proceedings of the Annual Meeting of the Cognitive Science Society* 45. https://escholarship.org/uc/item/300318x1 (Among the top 17.7% of all submissions)

Books

Li, J., & Armstrong, B. C. (2025). Lexical Ambiguity: An Interdisciplinary Exploration and Possible New Directions. Submitted for review at the University of Toronto Press.

Dissertation

Li, J. (2020). On Polysemy: A Philosophical, Psycholinguistic, and Computational Study. *Electronic Thesis* and Dissertation Repository. 7282. https://ir.lib.uwo.ca/etd/7282

Academic Presentations

- Li, J.*, Armstrong, B. C., & Xu, Y. (2025). Discovering Regularity in Word Sense Acquisition through Time. UCL-UofT Workshop on Word Meaning and Ambiguity, Toronto, Canada.
- Armstrong, B. C.*, & Li, J. (2025). Neural Network Model insights into Lexical Ambiguity. Invited Symposium Presentation at the Experimental Psychology Society (UK), Lancaster, UK.
- Li, J.* (2024) Issues of Generalization from Unreliable or Unrepresentative Psycholinguistic Stimuli: A Case Study on Lexical Ambiguity. Presented at *Cognitive Science of Language (CSoL)* research group, University of Toronto
- Li, J.*, & Armstrong, B. C. (2024) Issues of Generalization from Unreliable or Unrepresentative Psycholinguistic Stimuli: A Case Study on Lexical Ambiguity. Presented at *Annual Meeting of the Cognitive Science Society*, Rotterdam, Netherlands (Among the top 19% of all submissions)
- Li, J.*, & Armstrong, B. C. (2023) Probing the Representational Structure of Regular Polysemy in a Contextual Word Embedding Model via Sense Analogy Questions. Presented at *Annual Meeting of the Cognitive Science Society*, Sydney, Australia (Among the top 17.7% of all submissions)
- Li, J.* (2021) Polysemy as Clusters of Meaning Modulations. Presented at Language and Cognition Lab, UC San Diego
- Li, J.* (2020) On Polysemy: A Philosophical, Psycholinguistic, and Computational Study. Presented at *Psycholinguistics* research group, University of Toronto

Journal and Conference Reviews

Psychonomic Bulletin & Review, Language Learning, Behavior Research Methods, Cognitive Science, Applied Psycholinguistics, Canadian Journal of Experimental Psychology, Quarterly Journal of Experimental

Psychology, Natural Language Processing (Cambridge), Humanities & Social Sciences Communications, Annual Meeting of the Cognitive Science Society

Grant Reviews	
National Science Foundation	2022
Academic Activities	
Member of the Committee of Session & Technical Chairs of CogSci 2022	2022
Graduate Research Assistant at the University of Western Ontario	2020
Commenter at UWO Graduate Conference in Philosophy of Mind, Language, and Cognitive Scien	
Commenter at UWO Graduate Conference in Philosophy of Mind, Language, and Cognitive Scien Attended the North American Summer School on Logic, Language, and Information (NASSLLI)	ce 2017 2016
	2016
Grants, Honors & Awards	
	2015-2020
Western Graduate Research Scholarship (\approx \$18k each year) Chair's Entrance Scholarship (\$1000)	2015 - 2020
Ranked 1st in Philosophy Summer School in China and awarded fellowship (£3000)	2014
Secondary Professional Scholarship	2013
Hong Kong Xinshan Scholarship	2010
Course Instruction	
Introduction to Philosophy of Mind, University of Western Ontario	2019
Guest Lecturing	
Computer in Linguistics, University of Toronto	2023
Philosophy of Mind, University of Western Ontario	2019
Introduction to Philosophy of Language, University of Western Ontario	2017
Too shing Assistantshins	
Teaching Assistantships	
Philosophical Writing and Methodology, University of Toronto	2024
Philosophy of Neuroscience, University of Western Ontario	2019
Understanding Science, University of Western Ontario	2018
	2017-2018
Introduction to Philosophy of Language, University of Western Ontario	2017

Languages and Professional Skills

Understanding Science, University of Western Ontario

Languages: English (fluent), Mandarin (native), Japanese (fluent) Computational Skills: Python, R, LaTex, JavaScript, PyTorch, Psychopy 2016