

**Jiangtian Li**  
jiangtianli91@gmail.com

## Current Position

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*Postdoctoral Fellow*, Department of Psychology, University of Toronto Scarborough 2020-  
Advisor: Blair Armstrong

## Education

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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

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Areas of Specialization: Philosophy of Language and Mind, Cognitive Science of Language, and Computational Linguistics

Areas of Competence: Philosophy of Psychology, Natural Language Processing

## Publications

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### Peer-Reviewed Journal Articles

Li, J., & Armstrong, B. C. (2025). Issues of Generalization from Unreliable or Unrepresentative Stimuli: Broad Lessons from Lexical Ambiguity. Accepted in *Open Mind*.

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)

## 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

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- 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

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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

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National Science Foundation 2022

## Academic Activities

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Member of the Committee of Session & Technical Chairs of CogSci 2022 2022  
Graduate Research Assistant at University of Western Ontario 2020  
Commenter at UWO Graduate Conference in Philosophy of Mind, Language, and Cognitive Science 2018  
Commenter at UWO Graduate Conference in Philosophy of Mind, Language, and Cognitive Science 2017  
Attended the North American Summer School on Logic, Language, and Information (NASSLLI) 2016  
Assistant Editor in Philosophy of Language, PhilPapers 2015-2016

## Grants, Honors & Awards

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Western Graduate Research Scholarship ( $\approx$  \$18k each year) 2015-2020  
Chair's Entrance Scholarship (\$1000) 2015  
Ranked 1st in Philosophy Summer School in China and awarded fellowship (£3000) 2014  
Secondary Professional Scholarship 2013  
Hong Kong Xinshan Scholarship 2010

## Course Instruction

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*Introduction to Philosophy of Mind*, University of Western Ontario 2019

## Guest Lecturing

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*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

## Teaching Assistantships

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*Philosophical Writing and Methodology*, University of Toronto 2024  
*Philosophy of Neuroscience*, University of Western Ontario 2019  
*Understanding Science*, University of Western Ontario 2018  
*Critical Thinking*, University of Western Ontario 2017-2018  
*Introduction to Philosophy of Language*, University of Western Ontario 2017  
*Understanding Science*, University of Western Ontario 2016

## Languages and Professional Skills

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