

Yiwei Luo

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🌐 <http://yiweiluo.github.io>

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Research areas

Natural Language Processing, computational text analysis, computational social science, framing, persuasion, bias, misinformation

Education

2017-2023
(expected)

Ph.D. Candidate in Linguistics, Stanford University

- Dissertation title: Bias and susceptibility to bias: Studying the persuasiveness of evidence-framing using Natural Language Processing
- Committee: Dan Jurafsky, Beth Levin (co-chairs), Brian Knutson, Ellen Markman

2013-2017

B.A in Linguistics, Minor in CS, Princeton University

- *Summa cum laude*

NON-DEGREE STUDIES

2015 Summer

Linguistic Society of America (LSA) Linguistic Institute, Chicago, Illinois

2014 Summer

Princeton Global Seminar on sociolinguistics and multilingualism, University of Geneva, Switzerland

Honors & awards

2017-2019

Stanford University Jeanne and Bud Milligan Fellowship in Humanities and Sciences

2017

Princeton University Linguistics Department Senior Thesis Prize

2014

Princeton University Institute for International and Regional Studies summer study abroad award

2011, 2012

American Invitational Mathematics Examination qualifier

2012

Math Prize for Girls

2012

North American Computational Linguistics Olympiad, 49th place on invitational round

Grants & funding

2021-2022

Stanford University Woods Institute Environmental Venture Project Grant (Amount: \$200K)

2021

Stanford University Graduate Research Opportunity Dissertation Funding (Amount: \$4K)

Publications

WORK IN PROGRESS

- in prep. **Yiwei Luo**, Beth Levin, and Dan Jurafsky. Discourse and politeness factors of persuasion in interpersonal arguments.
- in prep. **Yiwei Luo**, Aaron Chuey and Ellen Markman. *Scientists believe vs. Scientists know*: Verb framing in headlines shapes perceptions of truth and objectivity.
- manuscript **Yiwei Luo**. Predicates of opinion attribution in the media coverage of vaccines.

PUBLISHED ARTICLES

- 2020 **Yiwei Luo**, Dallas Card and Dan Jurafsky. Detecting stance in media on global warming. *Findings of the Association for Computational Linguistics: Empirical Methods in Natural Language Processing 2020*: 3296–3315.
- 2019 **Yiwei Luo**, Dan Jurafsky and Beth Levin. From *insanely jealous* to *insanely delicious*: Computational models for the semantic bleaching of English intensifiers. *Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change*: 1–13.
- 2018 **Yiwei Luo** and Yang Xu. Stability in the temporal dynamics of word meanings. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*: 2078–2083.
- 2017 **Yiwei Luo**. The Textualization of Swiss German. *Schwa Language and Linguistics* 13: 75–88.

Presentations

- 2023 **Yiwei Luo**. Taking sides using sentential complement predicates: The interplay of factivity and politeness in persuasion. 97th Annual Meeting of the Linguistic Society of America, January 7, Denver, CO.
- 2022 **Yiwei Luo**. Opinion framing in the media coverage of global warming and vaccines. Construction of Meaning Workshop, March 2, Stanford, CA.
- 2019 **Yiwei Luo**. From scales to scalars: A computational approach to the semantic bleaching of English de-adjectival intensifiers. Stanford QP Fest, April 20, Stanford, CA.
- 2018 **Yiwei Luo**. Change and stability in word polysemy. Stanford SemFest, March 12, Stanford, CA.
- 2016 **Yiwei Luo**. Gradient grammaticalization of English *have to*. McGill Canadian Conference for Linguistics Undergraduates (McCCLU), March 19, Montreal, Canada.

PUBLIC TALKS

- 2022 **Yiwei Luo**. Finding math in linguistics. Cupertino Math Circle, September 29, Sunnyvale, CA.

Teaching

Instructor, STANFORD UNIVERSITY

- 2021 Fall • Introduction to Research for Undergraduates, as instructor
- 2021 Winter • Undergraduate Research Workshop, as instructor

Teaching Assistant, STANFORD UNIVERSITY

- 2022 Winter • Introduction to Semantics and Pragmatics, instructor: Chris Potts
- 2020 Winter • Introduction to Lexical Semantics, instructor: Cleo Condoravdi
- 2019 Spring

Other Teaching Experience

- 2021-2022 NLP Group Undergraduate Mentor, STANFORD UNIVERSITY, STANFORD, CA
- 2021-2022 Department of Linguistics Undergraduate Mentor, STANFORD UNIVERSITY, STANFORD, CA
- 2019 Summer Tutor, PETEY GREENE, CAMBRIDGE, MA
- 2016-2017 Administrative Assistant, THE MCGRAW CENTER FOR TEACHING AND LEARNING, PRINCETON, NJ
- 2013-2014 Contractor, ART OF PROBLEM SOLVING (AoPS), ALPINE, CA
- 2013-2017 Tutor, PRINCETON, NJ

Professional service

REVIEWING

- 2019- *Linguistics.*
- 2019- *Cognitive Science.*

ORGANIZING

- 2017-2018 Organizer, Social Committee. Stanford Linguistics
- 2019-2020
- 2017-2019 Co-chair, Social Committee. Stanford Natural Language Processing Group
- 2016-2017 Co-president, Linguistics Club. Princeton University

Memberships

- 2022- Linguistic Society of America

Skills

LANGUAGES

English and Mandarin Chinese: native

French: advanced

Russian: elementary

Latin and Ancient Greek: reading

COMPUTING

Python, R, Java, JavaScript, SQL, Unix, LATEX

Natural language processing, text mining, machine learning

PyTorch, TensorFlow, pandas, Git, spaCy, NLTK, AWS Lambda