Yiwei Luo

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⌘ yiweiluo

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 5-8, 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 Scalers: 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 2022, 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

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