

**Research interests:** natural language processing, computational semantics, computational social science.

## Education

University of California, Berkeley

**PhD. Information Science.**

Aug 2019 – Present

- Advisor: David Bamman.

Stanford University

**MS. Computer Science.** Depth area in Artificial Intelligence.

Sept 2017 – June 2019

**BS. Symbolic Systems** with distinction. Concentration in Natural Language.

Sept 2014 – June 2018

- Study abroad at University of Oxford, Winter 2017.

## Peer-reviewed Papers

\* indicates equal contribution

1. **Li Lucy\***, Dora Demszky\*, Patricia Bromley, & Dan Jurafsky. Content Analysis of Textbooks via Natural Language Processing: Findings on Gender, Race, and Ethnicity in Texas U.S. History Textbooks. *AERA Open*, 2020. [Best paper at American Educational Research Association (AERA) Educational Data Science Conference.]
2. Emma Lurie, **Li Lucy**, Masha Belyi, Sofia Dewar, Daniel Rincón, John Baldwin, & Rajvardhan Oak. Investigating Causal Effects of Instructions in Crowdsourced Claim Matching. *Computation + Journalism Symposium (C+J)*, 2020. [non-archival.]
3. **Li Lucy** & Julia Mendelsohn. Using sentiment induction to understand variation in gendered online communities. *Society for Computation in Linguistics (SCiL)*, 2019.
4. **Li Lucy** & Jon Gauthier. Are distributional representations ready for the real world? Evaluating word vectors for grounded perceptual meaning. *Language Grounding for Robotics (RoboNLP) Workshop at the Association for Computational Linguistics (ACL)*, 2017.

## Presentations

*Content Analysis of Textbooks via Natural Language Processing*. Guest lecture for graduate course, “Using Data to Describe the World.” Stanford, CA. May 2020.

*Content Analysis of Textbooks via Natural Language Processing*. Text as Data (TADA). Stanford, CA. Oct 2019.

## Grants & Awards

National Science Foundation Graduate Research Fellowships Program.

April 2019

K. Jon Barwise Award for Distinguished Contributions to the Symbolic Systems Program.

June 2018

Stanford Undergraduate Advising & Research (UAR) Small Grant. \$1,500.

May - June 2018

Symbolic Systems Grants for Education and Research (GEAR). \$1,145.

Aug 2017

Phi Beta Kappa, elected as junior.

May 2017

## Experience

Stanford Computer Science | Research Assistant | Stanford, CA

Jan 2019 – Dec 2019

- Advised by Dan Jurafsky and Patricia Bromley, in collaboration with PhD student Dora Demszky.
- Investigated the framing and representation of underrepresented groups in history textbooks.

École Polytechnique Fédérale de Lausanne | Research Intern | Lausanne, Switzerland

July 2018 – Sept 2018

- Advised by Robert West in the Data Science Lab at Summer@EPFL, an international research program.
- Operationalized and analyzed behavioral trends in a political quote dataset using Apache Spark, emotion lexicons, Stanford CoreNLP parsers, and social networks.

**Stanford Computer Science** | Research Assistant | Stanford, CA April 2017 – June 2018

- Advised by David Jurgens in the Stanford Network Analysis Project (PI: Jure Leskovec) and NLP group (PI: Dan Jurafsky).
- Used language and social network features to classify fictional and real relationships with scikit-learn, NLTK, and Keras.

## Teaching & Advising

**Stanford CS 224U: Natural Language Understanding** | Course Assistant April 2019 – June 2019

- Awarded a bonus for being in the top 5% of course assistants in computer science for a course taught by Chris Potts and Bill MacCartney.

**Stanford Symbolic Systems Program** | Advising Fellow Sept 2016 - June 2017, Jan 2019 – June 2019

- Acted as the liaison between the program's administration and 140+ students.
- Advised prospective and current students for a total of four academic quarters.

**Stanford EE/CME 103: Introduction to Matrix Methods** | Course Assistant Sept 2017 - Dec 2017

- Received position student evaluations for an applied linear algebra course taught by Stephen Boyd and David Tse.

## Service

**Reviewing:** AERA Open (2020), NeurIPS Human and Machine in-the-Loop Evaluation and Learning Strategies Workshop (2020).

**Organizing Committee:** Teaching NLP (2021) at NAACL.

## Other Activities

**CS Kickstart** | Guest Speaker Aug 2020

**UC Berkeley Girls in Engineering** | Cohort Leader June - July 2020

**BAIR Mentoring Program** | Mentor March 2020 - Present

**Berkeley AI4ALL** | Project Developer & TA Aug 2019

**Stanford AI4ALL** | Research Mentor June 2019 – July 2019

**Girls Teaching Girls to Code** | NLP Track Mentor, Lead April 2018, April 2019

## Skills

**Computer Languages:** Python, Julia, C++, SQL

**Natural Languages:** English, Mandarin Chinese, French.

**Tools:** NLTK, Stanford CoreNLP, SpaCy, scikit-learn, Apache Spark, MTurk, Figure Eight, Keras, TensorFlow, PyTorch.