

Julia Mendelsohn

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Education

- 2024 **PhD, Information**, *University of Michigan*
Advisor: Ceren Budak
- 2019 **MS, Computer Science**, *Stanford University*
Specialization: Information Management and Analytics
- 2018 **BA, Linguistics with Honors**, *Stanford University*
Minor in German Studies

Employment

- 2022 **Allen Institute for Artificial Intelligence Research Intern**, Seattle, WA
- 2021 **Pinterest Labs Research Intern (Machine Learning)**, San Francisco, CA
- 2015 **Hewlett Packard Labs Technical Intern**, Palo Alto, CA

Awards

Fellowships

- 2022 Google PhD Fellowship Recipient
- 2022 Meta PhD Research Fellowship Finalist
- 2021 Twitch Research Fellowship Finalist
- 2020 NSF Graduate Research Fellowship Program Honorable Mention

Projects

- 2023 Outstanding Methodology Award (ICWSM)
Bridging Nations: Quantifying the Role of Multilinguals in Communication on Social Media
- 2023 Best Poster (NLP@Michigan Day)
Challenges and Opportunities in Information Manipulation Detection: An Examination of Wartime Russian Media
- 2017 Sponsor's Award (NLP with Deep Learning Poster Fair)
Modeling the Dynamic Framing of Controversial Topics in Online Communities

Other

- 2019 Scholarship for Uriel Weinreich Program in Yiddish Language, Literature, and Culture
- 2018 Krupp Foundation Stipend Recipient
- 2018 J.E. Wallace Sterling Award for Scholastic Achievement
- 2018 Delta Phi Alpha (German honor society)
- 2017 Phi Beta Kappa
- 2015 President's Award for Academic Excellence

Publications

- 2024 **Julia Mendelsohn**, Dallas Card, and Ceren Budak. *Framing Social Movements on Social Media: Unpacking Diagnostic, Prognostic, and Motivational Strategies*. Journal of Quantitative Description [under review].
- 2023 **Julia Mendelsohn**, Ronan Le Bras, Yejin Choi, and Maarten Sap. *From Dogwhistles to Bullhorns: Unveiling Coded Rhetoric with Language Models*. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL).
- 2023 **Julia Mendelsohn**, Sayan Ghosh, David Jurgens, and Ceren Budak. *Bridging Nations: Quantifying the Role of Multilinguals in Communication on Social Media*. International Conference on Web and Social Media (ICWSM). ***Outstanding Methodology Award***
- 2022 **Julia Mendelsohn***, Chan Young Park*, Anjalie Field, and Yulia Tsvetkov. *Challenges and Opportunities in Information Manipulation Detection: An Examination of Wartime Russian Media*. Proceedings of the Findings of the 2022 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP). [*=equal contribution]
- 2022 Dallas Card, Serina Chang, Chris Becker, **Julia Mendelsohn**, Rob Voigt, Leah Boustan, Ran Abramitzky, and Dan Jurafsky. *Computational analysis of 140 years of US political speeches reveals more positive but increasingly polarized framing of immigration*. In Proceedings of the National Academy of Sciences 119(31), 2022.
- 2021 **Julia Mendelsohn**, David Jurgens, and Ceren Budak. *Modeling the framing of immigration on social media*. Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL).
- 2021 Chan Young Park, **Julia Mendelsohn**, Karthik Radhakrishnan, Kinjal Jain, Tushar Kanakagiri, David Jurgens and Yulia Tsvetkov. *Detecting Community Sensitive Norm Violations in Online Conversations*. Proceedings of the Findings of the 2021 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP).
- 2020 **Julia Mendelsohn**, Yulia Tsvetkov, and Dan Jurafsky. *A framework for the computational linguistic analysis of dehumanization*. Frontiers in Artificial Intelligence 3:55.
- 2019 Li Lucy and **Julia Mendelsohn**. *Using sentiment induction to understand variation in gendered online communities*. Proceedings for the second annual meeting of the Society for Computation in Linguistics (SCiL). ACL, 2019.
- 2018 Ethan Fast, Binbin Chen, **Julia Mendelsohn**, Jonathan Bassen, and Michael S Bernstein. *Iris: A conversational agent for complex tasks*. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems. ACM, 2018.

Conference Presentations

- 2023 "Framing Social Movements on Social Media: Unpacking Diagnostic, Prognostic, and Motivational Strategies". **Julia Mendelsohn**, Dallas Card, and Ceren Budak.
- New Directions in Analyzing Text as Data (TADA). Amherst, MA. Nov 9-10.
 - Politics and Computational Social Science (PaCSS). Los Angeles, CA. Aug 30.
- 2023 "Bridging Nations: Quantifying the Role of Multilinguals in Communication on Social Media". **Julia Mendelsohn**, Sayan Ghosh, David Jurgens, and Ceren Budak.
- Widening NLP Workshop. Singapore. Dec 6, 2023.
 - SoCal ML & NLP Symposium. Santa Barbara, CA. Nov 18, 2022.

- 2022

- International Conference on Computational Social Science (IC2S2). Virtual. July 27-31, 2021.

2022

"Sounding the Bullhorn: Surfacing and Analyzing Dogwhistles with Language Models". **Julia Mendelsohn**, Maarten Sap, and Ronan Le Bras.

 - New Ways of Analyzing Variation 50. San Jose, CA. Oct 13-15.
 - New Directions in Analyzing Text as Data (TADA). New York, NY. Oct 6-7.

2022

"Challenges in Opinion Manipulation Detection: An Examination of Wartime Russian Media". **Julia Mendelsohn***, Chan Young Park*, Anjalie Field, and Yulia Tsvetkov. New Directions in Analyzing Text as Data (TADA). New York, NY. Oct 6-7.

2021

"Modeling the framing of immigration on social media". **Julia Mendelsohn**, Ceren Budak, and David Jurgens.

 - New Directions in Analyzing Text as Data (TADA). Ann Arbor, MI. Oct 28-29.
 - Politics and Computational Social Science (PaCSS). Virtual. Aug 9-13.
 - International Conference on Computational Social Science (IC2S2). Virtual. July 27-31.

2020

"A framework for the computational linguistic analysis of dehumanization". **Julia Mendelsohn**, Yulia Tsvetkov, and Dan Jurafsky. *International Conference on Computational Social Science (IC2S2)*. Virtual. July 17-20.

2019

"The social meaning of diphthong fronting in Berlin German". Jannedy, S., M. Weirich, G. Schüppenhauer & **Julia Mendelsohn**. *Phonetik und Phonologie Tagung*, Düsseldorf, Germany. Sept 26-27.

2018

"Computational linguistic analysis of dehumanization of LGBTQ groups in the media". *New Ways of Analyzing Variation* 47, New York, NY. Oct 18-21.

2017

"Cross-community variation in onset /l/ among California Latinx speakers" [oral presentation]. Podesva, R., F. Conover, A. Flores-Perez, C. Gratton, A. Kane, D. Leigh, **Julia Mendelsohn**, C. Rentie & A. Sprenger. *New Ways of Analyzing Variation* 46, Madison, WI. Nov 2-5.

Invited Talks

Panels

- 2023

Automated detection of online hate speech
Center for Research on Antisemitism. Virtual. Oct 12.
- 2022

Mismatches between computational tools and social science needs
Cassandra Project Roundtable Series. Ann Arbor, MI. Nov 11.

Seminars

- 2023

Computational analysis of nuanced political rhetoric

 - University of Southern California NLP Group, Aug 31.
 - Cornell Computational Psycholinguistic Discussion Group, Mar 17.
 - Michigan Computational Social Science/Data Science Seminar, Mar 16.
 - INCITE: Columbia and McGill NLP for Social Science Seminar, Mar 9.
- 2021

Modeling the framing of immigration on social media

 - Carnegie Mellon University Language Technologies Institute, Sep 17.
 - Conversational AI and Social Analytics Lab at Philipps Universität Marburg, Sep 14.

- 2021 **Pairwise Learning to Rank for Closeup Stream Recommendations**
Pinterest ML Lunch Series, June 10.
- 2021 **Uncovering dehumanization with computational linguistics**
University of Washington Center for Statistics and the Social Sciences Seminar, Jan 20.
- 2020 **A computational analysis of immigration discourse on Twitter**
University of Michigan Sociolinguistics, Contact, and Discourse Meeting, Oct 30.
- 2020 **A framework for the computational linguistic analysis of dehumanization**
University of Michigan Computational Social Science/Data Science Seminar, Feb 20.
- 2018 **Understanding social change with NLP: a case study of LGBTQ representation in the *New York Times***
Leibniz-Zentrum Allgemeine Sprachwissenschaft, Aug 29.

Teaching Experience

- Fall 2023 **Introduction to Statistics and Data Analysis**, *University of Michigan*
Graduate Student Instructor for graduate-level statistics course (SI 544)
- Summer 2023 **Data Science Ethics**, *University of Michigan*
Graduate Student Instructor for graduate-level ethics course (SIADS 503)
- Spring 2023 **Qualitative Inquiry for Data Scientists**, *University of Michigan*
Graduate Student Instructor for graduate-level qualitative methods course (SIADS 601)
- Spring 2019 **African American Vernacular English**, *Stanford University*
Teaching Assistant for undergraduate sociolinguistics course (LING 65)
- Winter 2019 **From Languages to Information**, *Stanford University*
Course Assistant for undergraduate NLP course (CS 124)
- Winter 2018 **From Languages to Information**, *Stanford University*
Exam grader for undergraduate NLP course (CS 124)

Guest Lectures

- Fall 2023 **Political Dogwhistles and Language Technology**, *University of Chicago*
Course: Language and Politics
- Winter 2022 **Computational Sociolinguistics**, *Stanford University*
Course: Linguistics Capstone Seminar
- Spring 2019 **Representations of African American English in Disney Films**, *Stanford University*
Course: African American Vernacular English

Volunteer

- 2014 – 2018 English as a Second Language Tutor for Stanford custodial staff
- 2014 – 2017 Mathematics and writing tutor for middle school students in East Palo Alto

Professional Service

<i>Reviewing</i>	Information Processing and Management (2023) International Journal of Press/Politics (2023) EMNLP (2022) NAACL (ACL Rolling Review) (2022) ACL (2021, 2023) ICWSM (2024) NLP for Positive Impact Workshop (2021, 2022) NLP+CSS Workshop at EMNLP (2020, 2022) IC2S2 (2022)
<i>Service</i>	UMSI Doctoral Committee Student Representative (2023-2024) UMSI Doctoral Executive Committee (2021-2022) NAACL 2022 Student Volunteer EMNLP 2022 Student Volunteer
<i>Memberships</i>	Association for Computational Linguistics (ACL) Association for the Advancement of Artificial Intelligence (AAAI)

Skills

<i>Languages</i>	English (native), German (high intermediate), Spanish (high intermediate), Yiddish (intermediate)
<i>Programming</i>	Python, R, SQL, Java, C/C++, L ^A T _E X, Praat
<i>NLP/ML</i>	SpaCy, Pandas, scikit-learn, Tensorflow, PyTorch, Transformers, NLTK, Apache Spark