

# Caleb Ziems

## Curriculum Vitae

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*I work on **socially competent** and **equitable NLP** systems that are more aware of **social norms** and **robust to language variation**. My work also supports **safety** and **wellbeing** in online communities.*

## Education

- 2023–Present **Stanford University**, *Ph.D. in Computer Science*.  
NLP Group  
Advisor: Diyi Yang
- 2020–2023 **Georgia Institute of Technology**, *M.S. in Computer Science*.  
School of Interactive Computing  
Advisor: Diyi Yang  
Cumulative GPA: 3.95/4.0
- 2016–2020 **Emory University**, *B.S. in Computer Science (highest honors), B.A. in Mathematics*.  
Thesis: *Towards More Robust Methods of Cyberbullying Detection*  
Advisor: Ymir Vigfusson  
Cumulative GPA: 4.0/4.0

## Publications

- 2023 **Ziems, C.**, Held, W., Yang, J., & Yang, D. (2023). Multi-VALUE: A Framework for Cross-Dialectal English NLP. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics. [PDF](#)
- 2023 **Ziems, C.**, Dwivedi-Yu, J., Wang, Y., Halevy, A. Y., & Yang, D. (2023). NormBank: A Knowledge Bank of Situational Social Norms. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics. [PDF](#)
- 2023 Shaikh, O., **Ziems, C.**, Held, W., Pariani, A. J., Morstatter, F., & Yang, D. (2023). **ACL** Modeling Cross-Cultural Pragmatic Inference with Codenames Duet. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: Findings. *Findings*
- 2023 Held, W., **Ziems, C.**, & Yang, D. (2023). TADA: Task-Agnostic Dialect Adapters for English. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: Findings. *Findings* [PDF](#)
- 2022 **Ziems, C.**, Chen, J., Harris, C., Anderson, A., & Yang, D. (2022). VALUE: Understanding Dialect Disparity in NLU. In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing. [PDF](#)
- 2022 **Ziems, C.**, Yu, J. A., Wang, Y., Halevy, A. Y., & Yang, D. (2022). The Moral Integrity Corpus: A Benchmark for Ethical Dialogue Systems. In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing. [PDF](#)

- 2022 **Ziems, C.**,\* Li, M.,\* Zhang, A., & Yang, D. (2022). Inducing Positive Perspectives with Text Reframing. In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing. [PDF](#)  
**ACL** Outstanding Paper Award.
- 2021 **Ziems, C.**,\* ElSherief, M.,\* Muchlinski, D., Anupindi, V., Seybolt, J., De Choudhury, M., & Yang, D. (2021). Latent Hatred: A Benchmark for Understanding Implicit Hate Speech. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing. [PDF](#)  
**EMNLP**
- 2021 **Ziems, C.**, Yang, D. (2021). To Protect and To Serve? Analyzing Entity-Centric Framing of Police Violence. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing: Findings. [PDF](#)  
**EMNLP Findings**
- 2021 He, B., **Ziems, C.**, Soni, S., Ramakrishnan, N., Yang, D., & Kumar, S. (2021). Racism is a Virus: Anti-Asian Hate and Counterhate in Social Media during the COVID-19 Crisis. In 2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining. IEEE. [PDF](#)  
**ASONAM**
- 2020 **Ziems, C.**, Vigfusson, Y., & Morstatter, F. (2020) Aggressive, Repetitive, Intentional, Visible, and Imbalanced: Refining Representations for Cyberbullying Classification. In Proceedings of the 14th International AAAI Conference on Web and Social Media. [PDF](#).  
**ICWSM** Honorable Mention for Best Paper Award.

## Pre-prints

- 2023 **Ziems, C.**, Held, W., Shaikh, O., Chen, J., Zhang, Z., & Yang, D. (2023) Can Large Pre-Print Language Models Transform Computational Social Science? [PDF](#).

## Experience

- May 2022 - **Meta AI Integrity**, *Research Intern*.  
August 2022 Manager: Alon Halevy  
Peers: Jane Yu, Yi-Chia Wang
- May 2021 - **Meta AI Integrity**, *Research Intern*.  
Sep 2021 Manager: Alon Halevy  
Peers: Jane Yu, Yi-Chia Wang
- August 2020 - **Georgia Tech SALT Lab**, *Graduate Research Assistant*.  
Present Advisor: Diyi Yang
- March 2020 - **Georgia Tech CLAWS Research Group**, *Undergraduate Research Assistant*.  
May 2020 Advisor: Srijan Kumar
- June 2019 - **USC/ISI MINDS Research Group**, *NSF REU Fellow*.  
August 2019 Advisor: Fred Morstatter
- June 2018 - **Stanford InfoLab**, *NSF REU Fellow*.  
August 2018 Advisor: Srijan Kumar  
PI: Jure Leskovec
- August 2017 - **Emory Concept Mining Lab**, *Undergraduate Research Assistant*.  
May 2018 Advisor: Phillip Wolff

## Teaching

- January 2022 **CS 6471 Computational Social Science**, *Graduate Teaching Assistant*.  
- May 2022
  - Co-designed the CS 6471 curriculum
    - Co-designed the course schedule of assigned readings
    - Co-designed project report and presentation rubrics
    - Designed quizzes and bi-weekly reading response questions
  - Graded reports and presentations
- August 2017 - **Emory Office for Undergraduate Education**, *EPASS Peer Tutor*.  
May 2018
  - Worked one-on-one with 10 to 20 different undergraduates each semester
  - Explained Calculus I and II concepts, designed problem sets, and offered individual feedback

## Mentoring

- Spring 2023 - **Daniel Shin**, *Stanford University*  
Present *Topic*: RL for Value-Alignment
- Fall 2022 - **Julia Kruk**, *Georgia Institute of Technology*  
Present *Topic*: Computational Aesthetics and Photojournalism  
*Result*: One EMNLP 2023 Paper *In Preparation*.
- Spring 2022 - **Aryan Pariani**, *Georgia Institute of Technology*  
Present *Topic*: Pragmatic Reasoning in Language Games  
*Result*: One ACL 2023 Paper *In Submission*.
- Spring 2021 - **Minzhi (Ella) Li**, *National University of Singapore*  
Present *Topic*: Positive Reframing  
*Result*: **Outstanding Paper Award**.
- Fall 2021 - **Taiwei Shi**, *Georgia Institute of Technology*  
Spring 2022 *Topic*: Dialect-Aware NLP  
*Result*: Undergraduate Thesis

## Awards and Honors

- Dec 2022 **Honorable Mention for Best Project**, *CS 7643 Deep Learning @ Georgia Tech*.
- May 2022 **Outstanding Paper**, *ACL 2022*.
- March 2021 **NSF Graduate Research Fellowship**.
- June 2020 **Honorable Mention for Best Paper**, *ICWSM 2020*.
- May 2020 **Summa Cum Laude**, *Emory University Computer Science Department*.
- May 2020 **Academic Excellence Award**, *Emory University Computer Science Department*.
- November 2018 **Phi Beta Kappa**.  
Elected as a Junior
- August 2017 **Norman C. and Henry J. Miller Dean's Achievement Scholarship**.  
\$30,000 scholarship recognizing academic achievement, leadership, and community involvement

## Skills

- Languages Python, MATLAB, R, Java, C, Prolog, Scheme (LISP), JavaScript
- Libraries PyTorch, Scikit-learn, Numpy, Pandas, spaCy, NetworkX, BeautifulSoup
- Tools HTML/CSS, PostgreSQL, Github, L<sup>A</sup>T<sub>E</sub>X, Amazon Mechanical Turk API

Software Bash, Vim, Gephi, Jupyter, Eclipse

## Service

Reviewing ACM CSCW (2021);  
ACL / ARR Review (2021, 2022, 2023)  
Volunteer EMNLP (2021)

## Talks and Miscellanea

October 4, **Panel Member** for CS 7001 Introduction to Graduate Studies at Georgia Tech.  
2022 *Topic:* National Fellowships  
February 24, **Student Host** for Yian Yin, Faculty Candidate in the School of Interactive Computing  
2022 *Topic:* Science of Science and Network Science  
February 14, **Speaker** at IST-Unbabel Seminar  
2022 *Title:* Social NLP for Positive and Civil Interactions  
November 17, **Guest Lecturer** for CS 4650 Natural Language Processing at Georgia Tech  
2021 *Topic:* Dialect-Aware NLP + Computational Social Science  
October 5, **Panel Member** for CS 7001 Introduction to Graduate Studies at Georgia Tech.  
2021 *Topic:* National Fellowships