

Caleb Ziems

Curriculum Vitae

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*I use techniques from **NLP** and **Computational Social Science** to study **human behavior** and **communication** on the web. I am especially interested in understanding the **linguistic** and **psychological** processes that underlie effective **prosocial** and **antisocial** behaviors.*

Education

- 2020–Present **Georgia Institute of Technology**, *Ph.D. in Computer Science*.
School of Interactive Computing
Advisor: Diyi Yang
Cumulative GPA: 4.0/4.0
- 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

- 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](#)
- 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](#)
- 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](#)

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](#)

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](#).

Honorable Mention for Best Paper Award.

Pre-prints

2021 Wright, A. P., **Ziems, C.**, Park, H., Saad-Falcon, J., Chau, D. H., Yang, D., & Pre-Print Tomprou, M. (2021). Quantifying the Impact of Human Capital, Job History, and Language Factors on Job Seniority with a Large-scale Analysis of Resumes. [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 Research Group**, *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

Fall 2021 - **Taiwei Shi, Albert Lu, Faye Holt**
Present *Topic: Dialect-Aware NLP*

Awards and Honors

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^AT_EX, Amazon Mechanical Turk API
Software Bash, Vim, Gephi, Jupyter, Eclipse

Service

Reviewing ACM CSCW (2021);
ACL ARR Review (November, December 2021; January 2022)

Talks and Miscellanea

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