

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

Experience

- May 2021 – **Facebook 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

Publications

- 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 **EMNLP** **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 Findings Methods in Natural Language Processing: Findings. [PDF](#)
- 2021 **ASONAM** 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 **ICWSM** **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. Presented at ICWSM 2020 [PDF](#).
Honorable Mention for Best Paper Award.

Pre-prints

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

Teaching

- 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

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

Service

- Reviewing ACM CSCW (2021)

Skills

- Languages Python, Java, MATLAB, C, Prolog, Scheme (LISP), JavaScript
Libraries PyTorch, Scikit-learn, Numpy, Pandas, spaCy, NetworkX, BeautifulSoup
Tools HTML/CSS, PostgreSQL, Github, \LaTeX , Amazon Mechanical Turk API
Software Bash, Vim, Gephi, Jupyter, Eclipse