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 ACL **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 ACL **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 ACL **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
Outstanding Paper Award.

2021 EMNLP **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 EMNLP Findings **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 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. 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. PDF

Experience

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

Teaching

January 2022 - May 2022	**CS 6471 Computational Social Science**, *Graduate Teaching Assistant*.
	○ 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 - May 2018	**Emory Office for Undergraduate Education**, *EPASS Peer Tutor*. ○ 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 - Present	**Taiwei Shi, Albert Lu, Faye Holt** *Topic:* Dialect-Aware NLP

Awards and Honors

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, LaTeX, 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