

Caleb Ziems

Curriculum Vitae

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I work on **socially intelligent** and **equitable NLP** systems
that are aware of **social norms** and **robust to language
variation**

Education

- 2023–Present **Stanford University**, *Ph.D. in Computer Science*.
Advisor: Diyi Yang
- 2020–2023 **Georgia Institute of Technology**, *M.S. in Computer Science (Ph.D. track)*.
Advisor: Diyi Yang
- 2016–2020 **Emory University**, *B.S. in Computer Science (highest honors), B.A. in Mathematics*.
Advisor: Ymir Vigfusson

Pre-prints

- 2024 **Ziems, C.**,* Yang, D.,* Held, W.,* Shaikh, O.,* Bernstein, M.S., Mitchell, J. (2024). *Social Skill Training with Large Language Models*. Under Review. [PDF](#)
- 2024 Shi, W., Li, R., Zhang, Y., **Ziems, C.**, Yu, C., Horesh, R., Abreu de Paula, R., Yang, D. (2024). *CultureBank: An Online Community-Driven Knowledge Base Towards Culturally Aware Language Technologies*. Under Review. [PDF](#)

Publications

- 2024 **Ziems, C.**, Held, W., Dwivedi-Yu, J., & Yang, D. (2024). *Measuring and Addressing
ACL Indexical Bias in Information Retrieval*. In Proceedings of the 61st Annual Meeting of
Findings the Association for Computational Linguistics. Findings.
[PDF](#)
- 2024 Li, M., Shi, W., **Ziems, C.**, & Yang, D. (2024). *Social Intelligence Data Infrastructure:
ACL Structuring the Present and Navigating the Future*. In Proceedings of the 61st Annual
Findings Meeting of the Association for Computational Linguistics. Findings.
[PDF](#)
- 2024 Kruk, J., Marchini, M., Magu, R., Ziems, C., Muchlinski, D., **Ziems, C.**, & Yang, D.
ACL (2024). *Silent Signals, Loud Impact: LLMs for Word-Sense Disambiguation of Coded
Dog Whistles*. In Proceedings of the 61st Annual Meeting of the Association for
Computational Linguistics.
[PDF](#)
- 2024 **Ziems, C.**, Held, W., Shaikh, O., Chen, J., Zhang, Z., & Yang, D. (2023). *Can Large
CL Language Models Transform Computational Social Science?* In Computational
Linguistics, 49(4).
Included in the curriculum at Dartmouth, GaTech, Purdue, UTAustin, UToronto, UVA.
[PDF](#)

- 2023 **EMNLP** Kruk, J., **Ziems, C.**, & Yang, D. (2023). *Impressions: Visual Semiotics and Aesthetic Impact Understanding*. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing.
23% Accept. Rate
[PDF](#)
- 2023 **EMNLP** Li, E., Shi, T., **Ziems, C.**, Kan, M., Chen, N., Liu, Z., & Yang, D. (2023). *CoAnnotating: Uncertainty-Guided Work Allocation between Human and Large Language Models for Data Annotation*. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing.
23% Accept. Rate
[PDF](#)
- 2023 **ACL** **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.
22% Accept. Rate
[PDF](#)
- 2023 **ACL** **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.
22% Accept. Rate
[PDF](#)
- 2023 **ACL Findings** **Ziems, C.**,* Shaikh, O.,* Held, W., Pariani, A. J., Morstatter, F., & Yang, D. (2023). *Modeling Cross-Cultural Pragmatic Inference with Codenames Duet*. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: Findings.
[PDF](#)
- 2023 **ACL Findings** 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.
[PDF](#)
- 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.
21% Accept. Rate
[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.
21% Accept. Rate
[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.
21% Accept. Rate
[Outstanding Paper Award \(Top .8%\).](#)
[PDF](#)

- 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.
25% Accept. Rate
[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.
Included in the curriculum at Stanford.
[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.
22% Accept. Rate
Included in the curriculum at CMU, GaTech, Stanford, and Tübingen.
[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.
24% Accept. Rate
Honorable Mention for Best Paper Award (Top 11%).
[PDF](#)

Experience

- Sept 2023 - **Stanford NLP Group**, *Graduate Research Assistant*.
Present Advisor: Diyi Yang
- 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*.
August 2023 Advisor: Diyi Yang
- March 2020 - **Georgia Tech CLAWS Research Group**, *Undergraduate Research Assistant*.
May 2020 Advisor: Srijan Kumar
- August 2019 - **Emory SimBioSys Lab**, *Undergraduate Research Assistant*.
March 2020 Advisor: Ymir Vigfusson
- 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 2024 **Stanford CS 224N – NLP with Deep Learning**, *Teaching Assistant*.
- March 2024
 - Pretested homework assignments
 - Graded homework assignments and project reports (~520 students)
 - Held weekly office hours
- January 2022 **Georgia Tech CS 6471 – Computational Social Science**, *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
 - Held weekly office hours
- August 2017 - **Emory MATH 111, 112 – Calculus**, *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 2024 **Yicheng Fu**, *Stanford University* (M.S.)
- Spring 2024 **William Z. Li**, *Stanford University* (B.S., M.S.)
Topic: Social Skill Training
- Fall 2023 - **Vyoma Raman**, *Stanford University* (M.S.)
Present *Topic*: Power Dynamics in NLP
- Fall 2023 - **Seonghee Lee**, *Stanford University* (M.S.)
Present *Topic*: LLM Agent Consistency
- Summer 2023 **Chijioke Mgbahurike**, *Stanford University* (B.S.)
Topic: Dialectal Bias in ASR Systems
Result: One presentation at the INSPIRE Research Poster Session.
- Fall 2022 - **Julia Kruk**, *Georgia Institute of Technology* (M.S.)
Present *Topic*: Computational Aesthetics and Photojournalism
Results: One EMNLP 2023 Paper; One ACL 2024 Paper.
- Spring 2021 - **Minzhi (Ella) Li**, *National University of Singapore* (B.S., Ph.D)
Present *Topic*: Positive Reframing; Human-LLM Co-Annotation
Results: One ACL 2022 **Outstanding Paper**; One EMNLP 2023 Paper; One ACL 2024 Paper.
- Spring 2021 - **Anthony Zhang**, *Georgia Institute of Technology* (B.S.)
Fall 2021 *Topic*: Positive Reframing
Results: One ACL 2022 **Outstanding Paper**
- Spring 2022 - **Aryan Pariani**, *Georgia Institute of Technology* (B.S.)
Spring 2023 *Topic*: Pragmatic Reasoning in Language Games
Results: One ACL 2023 Findings Paper.
- Fall 2021 - **Taiwei Shi**, *Georgia Institute of Technology* (B.S.)
Spring 2022; *Topics*: Dialect-Aware NLP; Human-LLM Co-Annotation
Summer 2023 *Results*: Undergraduate Thesis; One EMNLP 2023 Paper.

Awards and Honors

- May 2023 **Magic Grant**, *The Brown Institute for Media Innovation*.
- May 2022 **Outstanding Paper**, *ACL 2022*.
- March 2021 **NSF Graduate Research Fellowship**, *National Science Foundation*.
- 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**, *Emory University*.
Elected as a Junior
- August 2017 **Dean's Achievement Scholarship**, *Emory University*.
\$30,000 scholarship recognizing academic achievement, leadership, and community involvement

Service

- Reviewing ACL / ARR Review (2024, 2023, 2022, 2021);
ACM CSCW (2021)
- Volunteer ACL (2023); EMNLP (2021)

Talks and Miscellanea

- April 15, 2024 **Guest Lecturer** for CS 6501 Natural Language Processing at UVA.
Talk: Can Large Language Models Transform Computational Social Science?
- March 19, 2024 **Guest Lecturer** for LIN 393 Social Applications and Impact of NLP at UT Austin.
Talk: Can Large Language Models Transform Computational Social Science?
- October 9, 2023 **Speaker** at the AWS Responsible AI Group.
Talk: Multi-VALUE: A Framework for Cross-Dialectal English NLP
- June 19, 2023 **Speaker** at the Summer Institutes in Computational Social Science (SICSS).
Talk: Can Large Language Models Transform Computational Social Science?
- October 4, 2022 **Panel Member** for CS 7001 Introduction to Graduate Studies at Georgia Tech.
Topic: National Fellowships
- 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
Talk: 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