

Nicholas Deas

curriculum vitae

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EDUCATION

Columbia University

PhD in Computer Science

New York, NY

September, 2022 - Present

Advisor: Professor Kathleen McKeown

Research Focus: Natural Language Processing, Bias and Fairness, Computational Social Science

NSF Graduate Research Fellow, Provost Diversity Fellow, Presidential Fellow

MPhil in Computer Science

September, 2022 - December 2025

Earned as part of doctoral program

GPA: 4.0

MS in Computer Science

September, 2022 - May 2024

Earned as part of doctoral program

GPA: 4.0

Clemson University

BS in Computer Science; BS in Psychology, minor in Business

Clemson, SC

August, 2018 - May, 2022

GPA: 4.0

Calhoun Honors College, National Scholars Program

RESEARCH EXPERIENCE

Columbia University

Graduate Research Assistant

New York, NY

September, 2022 - Present

- Drawing on linguistic and social science theory to evaluate and develop socially aware language technologies
- Ensuring the safe and equitable deployment of language models and tools through mitigating societal biases
- Mentored 7 undergraduate and 5 master's students on conducting and communicating NLP research

Clemson University

Social Psychology Creative Inquiry Researcher

Clemson, SC

August, 2020 - May, 2022

- Developed machine learning models to classify Reddit posts by psychological constructs like mattering
- Assisted in development of 4 survey studies concerning Greek Life, mattering, vaccines, and mask mandates during the COVID-19 pandemic
- Presented research on mass shootings and mask/vaccine perceptions at national conferences

Machine Learning Creative Inquiry Researcher

August, 2018 - May, 2022

- Coded automated web-scraper to generate data set of over 2 million congressional Tweets

- Developed and evaluated machine learning models for sentiment and topic classification
- Co-authored 2 research papers and gave 2 presentations at national conferences

TEACHING EXPERIENCE

Columbia University/Barnard College	New York, NY
Teaching Assistant, COMS4705: Natural Language Processing	August 2025 - December 2025
Graduate Student Mentor, LaidLaw Scholars Program	May 2025 - July 2025
• Mentored 6 sophomores in Computer Science, Psychology, and Political science on their research	
• Gave weekly lectures on research methods, publishing, and academic career paths	
Teaching Assistant, COMSBC3997: Natural Language Processing	August 2024 - December 2024
Teaching Assistant, COMSE6998: Language Generation/Summarization	August 2023 - December 2023

SPEAKING EXPERIENCE

<i>Bias, Fairness, and Privacy in NLP</i>	
• COMS4705: Introduction to Natural Language Processing	November, 2025
<i>Research in NLP at Columbia (w/ Kathleen McKeown)</i>	
• ARNI Summer 2025 Talk Series, Columbia University	July, 2025
<i>Ethical Issues in Language Representations</i>	
• Semantic Representations for NLP Guest Lecture, Columbia University	June, 2025
<i>Ethical Issues of Algorithms and AI</i>	
• Advocacy in Emergent Technology Guest Speaker, UPenn	October, 2024
<i>African American Language Bias and Large Language Models</i>	
• NLP Seminar Speaker, Columbia University	October, 2023
• Language Generation Seminar Guest Lecture, Columbia University	November, 2023
• ScholarTalks, Columbia University	January, 2023

AWARDS AND HONORS

<i>Provost Diversity Fellows Mini Grant</i> , Columbia University Office of the Provost	July, 2023
<i>NSF Graduate Research Fellowship</i> , National Science Foundation	September, 2022
<i>Presidential Fellowship</i> , Columbia School of Engineering and Applied Sciences	September, 2022
<i>Provost Diversity Fellowship</i> , Columbia University Office of the Provost	September, 2022
<i>Phi Kappa Phi Certificate of Merit</i> , Clemson School of Engineering	April, 2022
<i>Academic Excellence Award</i> , Clemson College of Behavioral, Social, and Health Sciences	April, 2022
<i>Davenport Scholars</i> , Clemson Psychology Department	January, 2021/2022
<i>Best Undergraduate Research Poster</i> , Midwest Political Science Association	April, 2020
<i>Cullinet Outstanding Senior Award</i> , Clemson School of Computing	April, 2020
<i>DuPont Best Undergraduate Project Scholarship</i> , Clemson School of Computing	August, 2020
<i>National Scholars Program (full scholarship)</i> , Clemson University	August, 2018

PUBLICATIONS

*Includes publications in either computational linguistics conference venues or journals.

*Undergraduate or master's mentees are indicated "[name](#)"

Nicholas Deas and Kathleen McKeown. 2025. Artificial Impressions: Evaluating Large Language Model Behavior Through the Lens of Trait Impressions. In *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing*. Suzhou, China. Association for Computational Linguistics.

Mukur Gupta, Nikhil Reddy Varimalla, Nicholas Deas, Melanie Subbiah, and Kathleen McKeown. 2025. AdvSumm: Adversarial Training for Bias Mitigation in Text Summarization. In *Proceedings of the 5th New Frontiers in Summarization Workshop*. Suzhou, China. Association for Computational Linguistics.

Marvin Limpijankit, Yanda Chen, Melanie Subbiah, **Nicholas Deas**, and Kathleen McKeown. 2025. Counterfactual Simulability of LLM Explanations for Generation Tasks. In *Proceedings of the International National Language Generation Conference*. Hanoi, Vietnam. Association for Computational Linguistics.

Nicholas Deas, *Blake Vente*, Amith Ananthram, Jessi Grieser, Shana Kleiner, Desmond Patton, James Shepard, Kathleen McKeown. 2025. Data Caricatures: On the Representation of African American Language in Pretraining Corpora. In *Proceedings of the 64rd Annual Meeting of the Association for Computational Linguistics*. Vienna, Austria. Association for Computational Linguistics.

Narutatsu Ri, Nicholas Deas, Kathleen McKeown. 2025. Reranking-Based Generation for Unbiased Perspective Summarization. Submitted to *Proceedings of the 64th Annual Meeting of the Association for Computational Linguistics*. Vienna, Austria. Association for Computational Linguistics.

Joel Mire, Zubin Trivadi Aysola, Danial Chechelnitsky, **Nicholas Deas**, Chrysoula Zerva, Maarten Sap. 2025. Rejected Dialects: Biases Against African American Language in Reward Models. In *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics*. Albuquerque, New Mexico, USA. Association for Computational Linguistics.

Tyler Hendley, **Nicholas Deas**, Sophia Finnell, Robin Kowalski. 2025. Mass Shootings in the 21st Century: An Examination through the Lens of the Interpersonal Psychological Theory of Suicide. In *Journal of Mass Violence Research*.

Shana Kleiner, Jessica A Grieser, Shug Miller, James Shepard, Javier Garcia-Perez, **Nicholas Deas**, Desmond Patton, Elsbeth Turcan, Kathleen McKeown. Unmasking Camouflage: Exploring the Challenges of Large Language Models in Deciphering African American Language & Online Performativity. In *AI and Ethics*.

Nicholas Deas, Kathleen McKeown. 2025. Summarization of Opinionated Political Documents with Varied Perspectives. In *Proceedings of the 31st International Conference on Computational Linguistics*, pages 8088-8108, Abu Dhabi, UAE. Association for Computational Linguistics.

Nicholas Deas, Elsbeth Turcan, *Ivan Ernesto Perez Mejia*, and Kathleen McKeown. 2024. MASIVE: Open-Ended Affective State Identification in English and Spanish. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*, pages 20467-20485, Miami, Florida, USA. Association for Computational Linguistics.

Nicholas Deas, Jessica A Grieser, *Xinmeng Hou*, Shana Kleiner, *Tajh Martin*, *Sreya Nandanampati*, Desmond Patton, Kathleen McKeown. 2024. PhonATe: Impact of Type-Written Phonological Features of African American Language on Generative Language Modeling Tasks. In *Proceedings of the First Conference on Language Modeling*, Philadelphia, Pennsylvania, USA.

Jeffrey A. Fine, D. Hudson Smith, Cierra Oliveira, **Nicholas Deas**, Spencer Shellnutt, Riley Stotzky, and Rachel Clyburn. 2024. How Negativity and Policy Content Drive the Spread of Political Messages. *Journal of Information Technology and Politics*, pages 1-10.

Nicholas Deas, Jessica Grieser, Shana Kleiner, Desmond Patton, Elsbeth Turcan, and Kathleen McKeown. 2023. Evaluation of African American Language Bias in Natural Language Generation. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 6805-6824, Singapore. Association for Computational Linguistics.

Nicholas Deas, Robin Kowalski, Sophie Finnell, Emily Radovic, Hailey Carroll, Chelsea Robbins, Andrew Cook, Kenzie Hurley, Natalie Cote, Kelly Evans, Isabel Lorenzo, Kelly Kiser, Gabriella Mochizuki, Meredith Mock, and Lindsey Brewer. 2023. I Just Want to Matter: Examining the Role of Anti-mattering in Online Suicide Support Communities Using Natural Language Processing. *Computers in Human Behavior*.

Robin Kowalski, **Nicholas Deas**, Noah Britt, Emily Richardson, Sophie Finnell, Kelly Evans, Hailey Carroll, Andrew Cook, Emily Radovic, Tanner Huyck, Bella Parise, Chelsea Robbins, Hannah Chitty, and Sophie Catanzaro. 2022. Protection Motivation Theory and Intentions to Receive the COVID-19 Vaccine. *Health Promotion Practice* (2023).

Minjae Woo, Prabodh Mishra, Ju Lin, Snigdhaswin Kar, **Nicholas Deas**, Caleb Linduff, Sufeng Niu, Yuzhe Yang, Jerome McClendon, D. Hudson Smith, Stephen L. Shelton, Christopher E. Gainey, William C. Gerard, Melissa C. Smith, Sarah F. Griffin, Ronald W. Gimbel, and Kuang-Ching Wang. 2021. Complete and Resilient Documentation (CARD) for Operational Medical Environments Leveraging Mobile Hands-free Technology in a Systems Approach. *JMIR mHealth and uHealth* 9, 10 (2021).

Robin Kowalski, Kenzie Hurley, **Nicholas Deas**, Sophie Finnell, Kelly Evans, Chelsea Robbins, Andrew Cook, Emily Radovic, Hailey Carroll, Lindsey Brewer, and Gabby Mochizuki. 2021. PMT Unmasked: Applying the Protection Motivation Theory of Health to Skepticism Toward COVID Mask and Vaccine Mandates. *AIMS Public Health* 9, 3 (2021), 506-520.

CONFERENCE PRESENTATIONS

Desmond Upton Patton, Shana Kleiner, **Nicholas Deas**, Shug Miller, Jessica A. Grieser, James Shepard, *Blake Vente*, and Kathleen McKeown. 2025. AI with Heart: A Joy-Centered Framework for Ethical AI Development & Implementation. In *Paris Conference on AI & Digital Ethics*. Sorbonne University, France.

Tyler Hendley, **Nicholas Deas**, Sophie Finnell, and Robin M. Kowalski. 2024. An Examination of Mass Shooters in the 21st Century in Relation to the Interpersonal Theory of Suicide. In *Association for Behavioral and Cognitive Therapies*, Philadelphia, PA.

Jessica A. Grieser, **Nicholas Deas**, Shana Kleiner, Desmond U. Patton, James Shepard, Elsbeth Turcan, and Kathleen McKeown. 2023. Exploring the Deficiencies of Large Language Models in Using AAL: An Interdisciplinary Study. *New Ways of Analyzing Variation* 51. Queens College CUNY.

Nicholas Deas, Cierra Oliveira, Riley Stotzky, and Leah Terry. 2022. Partisan Differences in Politicians' Rhetoric about COVID-19, and Why These Messages Spread Online. In *Midwest Political Science Association Conference*.

Nicholas Deas, Sophie Finnell, Emily Radovic, Hailey Carroll, Chelsea Robbins, Natalie Cote, Kelly Kiser, Isabella Lorenzo, Meredith Mock, Kelly Evans, Andrew Cook, Gabby Mochizuki, Lindsey Brewer, Kenzie Hurley, and Robin Kowalski. 2022. I Just Want To Matter!: Applying Natural Language Processing to Detect Psychological Constructs in Online Peer-Support Communities. In *Society of Personality and Social Psychology Conference*.

Robin Kowalski, **Nicholas Deas**, Noah Britt, Chelsea Robbins, Sophie Finnell, Kelly Evans, Hailey Carroll, Andrew Cook, Emily Radovic, Emily Richardson, Tanner Huyck, Bella Parise, Hannah Chitty, and Sophie Catanzaro. 2022. Protection Motivation Theory and Intentions to Receive the COVID-19 Vaccine. In *Society of Personality and Social Psychology Conference*.

Robin Kowalski, Kenzie M. Hurley, **Nicholas Deas**, Sophie Finnell, Emily Radovic, Kelly Evans, Andrew Cook, Chelsea Robbins, Lindsey Brewer, Gabby Mochizuki, and Hailley Carroll. 2021. Predicting Attitudes Toward COVID-19 Mask and Vaccine Mandates. In *Society of Southeastern Social Psychologists Conference*.

Robin Kowalski, Andrew Cook, Kaitlyn Rubley, Hailley Carroll, Emily Richardson, Catherine Chapman, Hannah Chitty, Kelly Evans, **Nicholas Deas**, Tanner Huyck, Bella Parise, Chelsea Robbins, and Mark Leary. 2020. Threats to Masculinity in K-12, College/University, and Mass Shootings. In *Society of Southeastern Social Psychologists Conference*.

Nicholas Deas, Jacob Sargent, and Spencer Shellnut. 2019. Using Natural Language Processing to Automate Detection of Targeted Attacks in Political Tweets. In *Midwest Political Science Association Conference*.

Jeffrey Fine, **Nicholas Deas**, Jacob Sargent, Spencer Shellnut, and D. Hudson Smith. 2019. Content Analyzing Political Tweets Using Natural Language Processing; Opportunities and Challenges. In *Southern Political Science Association Conference*.

Jacob Sargent, Spencer Shellnut, and **Nicholas Deas**. 2019. How Characteristics of Members of the House of Representatives and the Political Environment Affect the Use of Political Attacks on Twitter. In *Midwest Political Science Association Conference*.