

# Nicholas Deas

curriculum vitae

ndeas@cs.columbia.edu | (843) 295-9530  
195 Claremont Ave, Apt 30B, New York, NY 10027



## EDUCATION

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### Clemson University

*BS in Computer Science, BS in Psychology*

GPA: 4.0

Calhoun Honors College

Clemson, SC

August, 2018 – May, 2022

### Columbia University – School of Engineering and Applied Sciences

*PhD in Computer Science*

Advisor: Professor Kathleen McKeown

Focus Area: Natural Language Processing, Computational Social Science

New York City, NY

Anticipated 2028

## RESEARCH EXPERIENCE

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### Clemson University

*Social Psychology Creative Inquiry Researcher*

- Developing 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

Clemson, SC

August, 2020 – May, 2022

*Machine Learning Creative Inquiry Researcher*

- 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 in tweets
- Co-authored 2 research papers to be submitted in Spring 2022 and gave 2 presentations at national conferences

August, 2018 – May, 2022

*Data Science Research Lead*

- Lead team of 4 students in natural language processing research for corporate client, Giant Oak
- Evaluated Named-Entity Recognition models for indexing web pages
- Developed Named-Entity Recognition system that outperforms current solution and will be implemented by corporate client

August, 2021 – December, 2021

*Natural Language Processing Undergraduate Researcher*

- Tested novel model architecture to correct speech recognition system outputs
- Co-authored a manuscript on application with speech recognition to battlefield medic data

May, 2020 – August, 2021

## AWARDS AND HONORS

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<i>Presidential Fellowship</i> , Columbia School of Engineering and Applied Sciences	August, 2022
<i>Provost Diversity Fellowship</i> , Columbia University Office of the Provost	August, 2022
<i>National Science Foundation Graduate Research Fellowship</i> , NSF	April, 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>Best Use of Data Award</i> , Clemson University Hackathon	February, 2020
<i>Overall Hackathon Runner-up</i> , Booze-Allen- Hamilton Hackathon	March, 2019
<i>Best Use of Google Cloud Platform</i> , Clemson University Hackathon	February, 2019
<i>National Scholars Program (full scholarship)</i> , Clemson University	August, 2018

## PUBLICATIONS

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- 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. 2022. I Just Want to Matter: Examining the Role of Anti-mattering in Online Suicide Support Communities Using Natural Language Processing. *Computers in Human Behavior* (2022). (Forthcoming)
- 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* (2022). DOI:<https://doi.org/10.1177/15248399211070807>
- 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). DOI:<https://doi.org/10.2196/32301>
- 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. DOI: <https://doi.org/10.3934/publichealth.2022035>

## CONFERENCE PRESENTATIONS

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- 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*.

## VOLUNTEER EXPERIENCE

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### Clemson University

*Youth Scholars Program*

Clemson, SC

August, 2018 - Present

- Helped found organization to mentor high-performing 5th-8th graders from Title I schools
- Assisted planning enriching and educational Clemson campus visits for 4 cohorts of students
- Developed organization website to provide educational resources and aggregate education inequality research