Social Media Conversations About Women Who are Victims of Violence or Missing





Extreme Science and Engineering Discovery Environment



Supported by OAC 15-48562.

August Hays-Ekeland Software Engineering Arizona State University ahayseke@asu.edu "I call it the missing white woman search syndrome. If there is a missing white woman you're going to cover that every day."

-Gwen Ifill

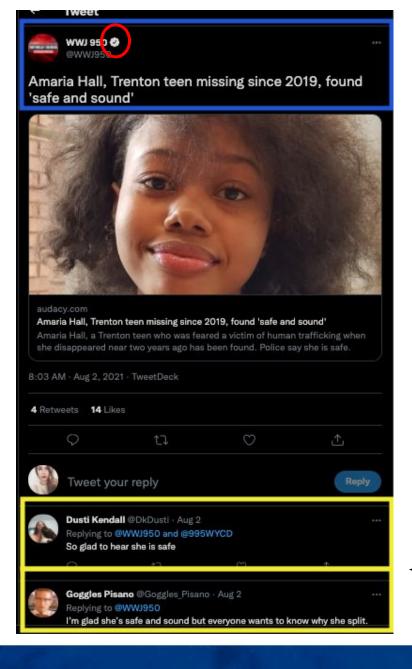


Methods

- Scraped twitter threads with twint to create dataset
 - Looked for tweets from "verified" accounts, collected all responses
- Analysis using Python, Matplotlib, Pandas, Numpy, and SpaCy
- Bridges2 supercomputing clusters to mine and process text data
- Final dataset contains ~400 verified tweets and ~700 responses to them

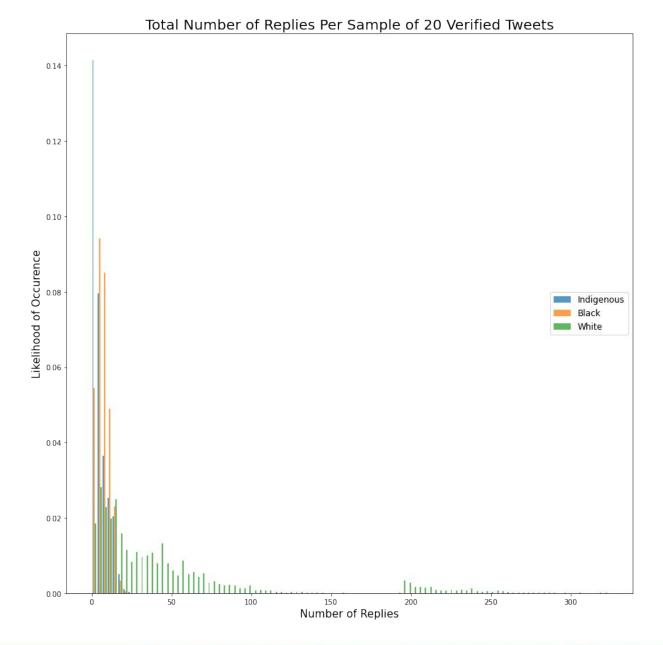


Original tweet from a detroit area radio station, which is verified on Twitter (check mark inside red circle)



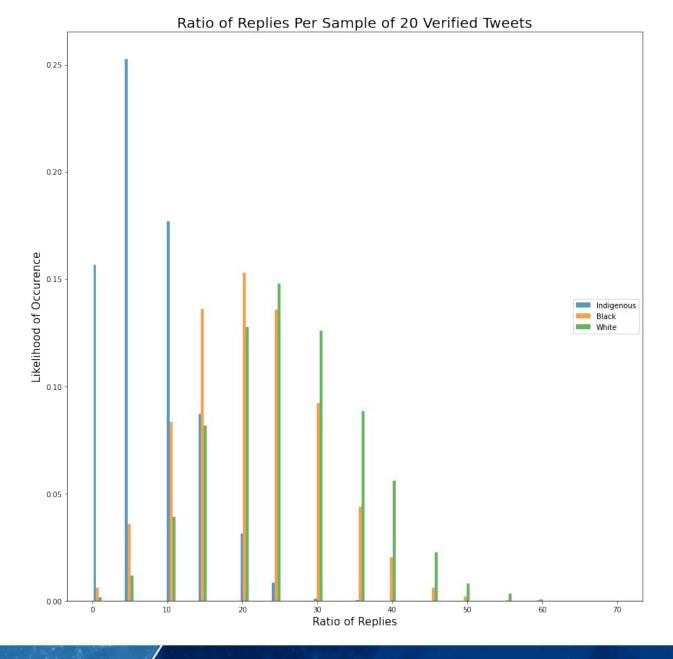
Two replies from other twitter users





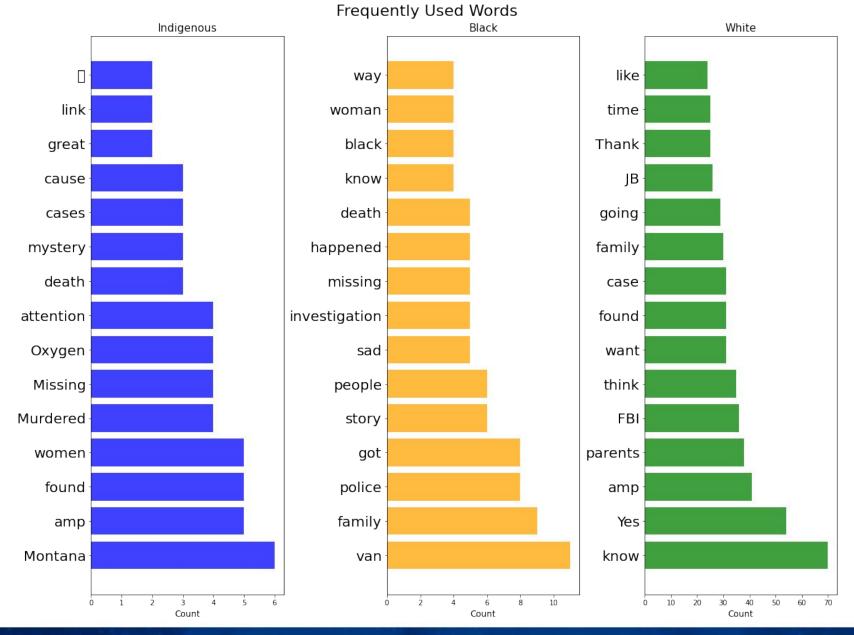
Indigenous mean = 4.8358 Black mean = 7.0727 White mean = 46.7179





Indigenous mean = 7.303% Black mean = 20.999% White mean = 26.1335%







"@NPR OMG!!! What horror did she go through???"

EmotionOutput(output=fear, probas={fear: 0.537, surprise: 0.412, others: 0.032, joy: 0.007, anger: 0.006, disgust: 0.003, sadness: 0.003})

"@Complex few cases make me angrier than this one"

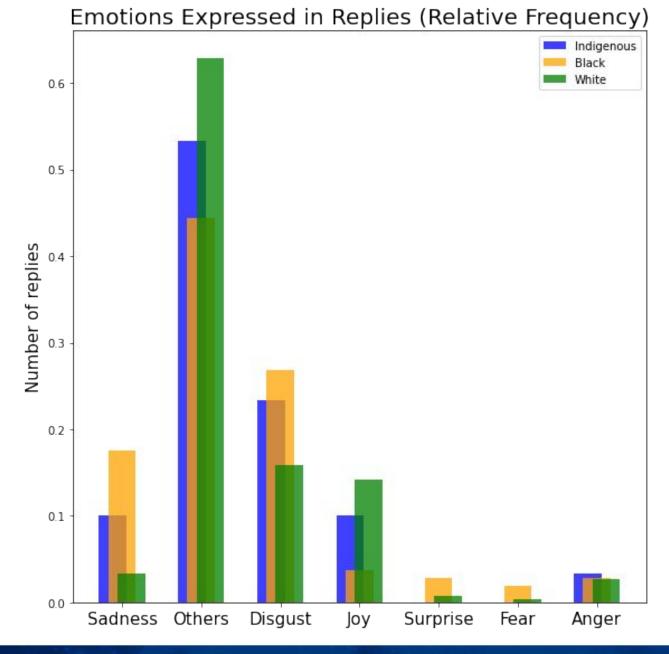
EmotionOutput(output=disgust, probas={disgust: 0.816, others: 0.158, anger: 0.012, sadness: 0.006, fear: 0.005, joy: 0.002, surprise: 0.001})

"@WWJ950 @955WYCD So glad to hear she is safe"

EmotionOutput(output=joy, probas={joy: 0.953, others: 0.038, sadness: 0.002, anger: 0.002, surprise: 0.002, fear: 0.001, disgust: 0.001})

In []:





Limitations

- Bias introduced by picking women myself, targeted search results
- Issues with twint
- Difficulty finding verified tweets with any responses for BIWOC
- Time limitations

Future Work

- Better results from twint with more time and practice
- Larger sample of women, tweets
- More sophisticated emotional analysis























