Effective Crisis Communication on Social Media & Other Short Messaging Platforms

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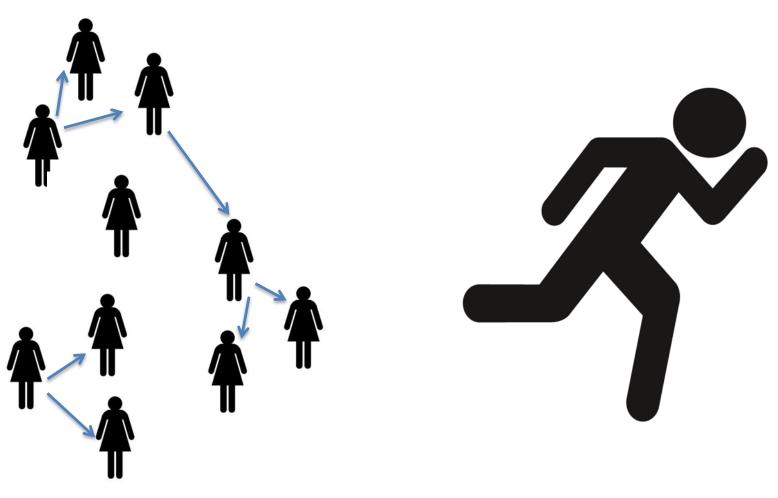








Our research shows how to get people to...



Share

Protect





Hazards, Emergency Response, and Online Informal Communication



6,000,000,000 Tweets collected

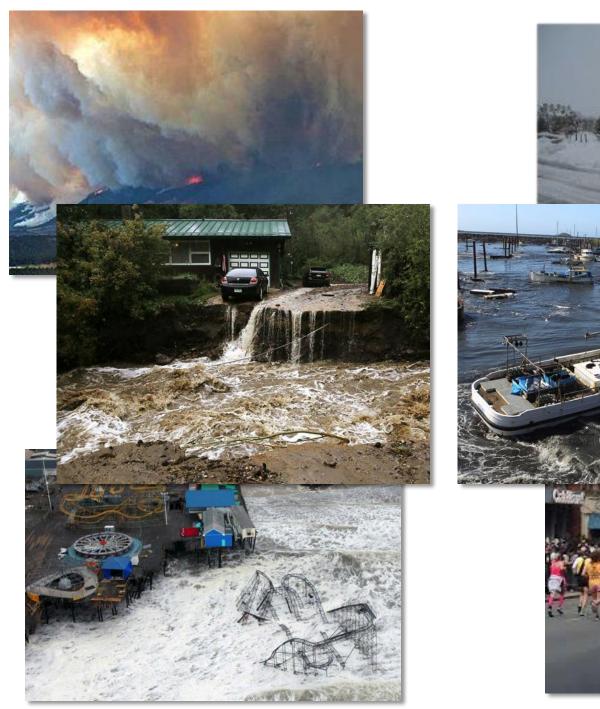
3,000,000,000 Network connections

800,000 Tweets analyzed

Across 19 hazards

6 distinct events







Strategies to employ when sending 140 character messages

WHAT MAKES PEOPLE PASS MESSAGES ON?



We modeled message retransmission by analyzing official accounts' number of followers, the style of the message, and the message thematic contents.



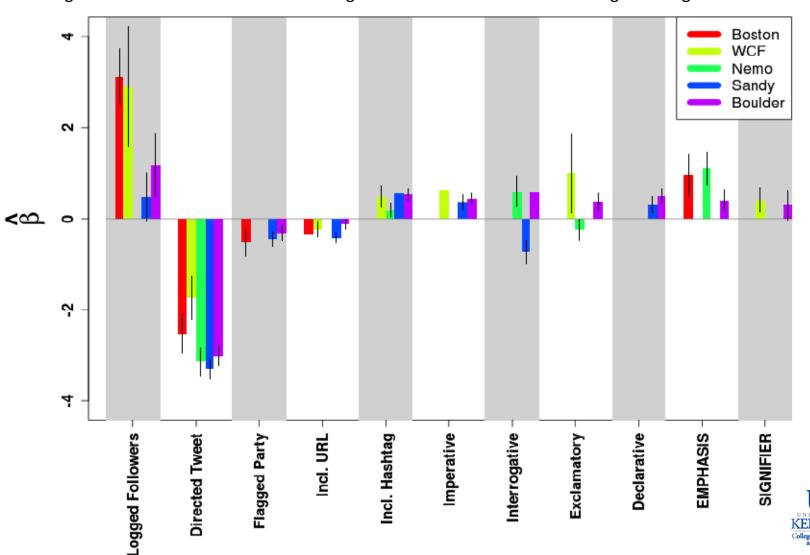
Strategies to employ when sending 140 character messages

STYLE MATTERS



Effects of followers and style on predicted retransmission

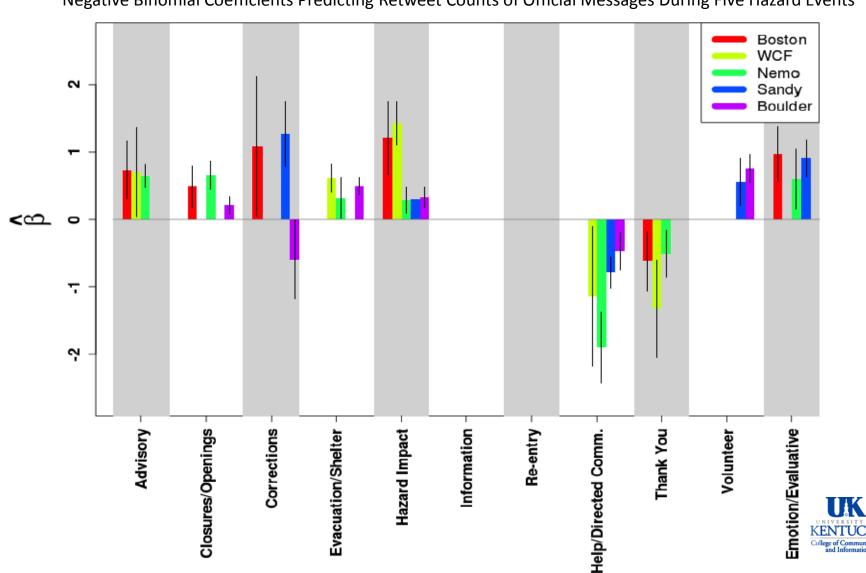
Negative Binomial Coefficients Predicting Retweet Counts of Official Messages During Five Hazard Events





Effects of message content on predicted retransmission

Negative Binomial Coefficients Predicting Retweet Counts of Official Messages During Five Hazard Events







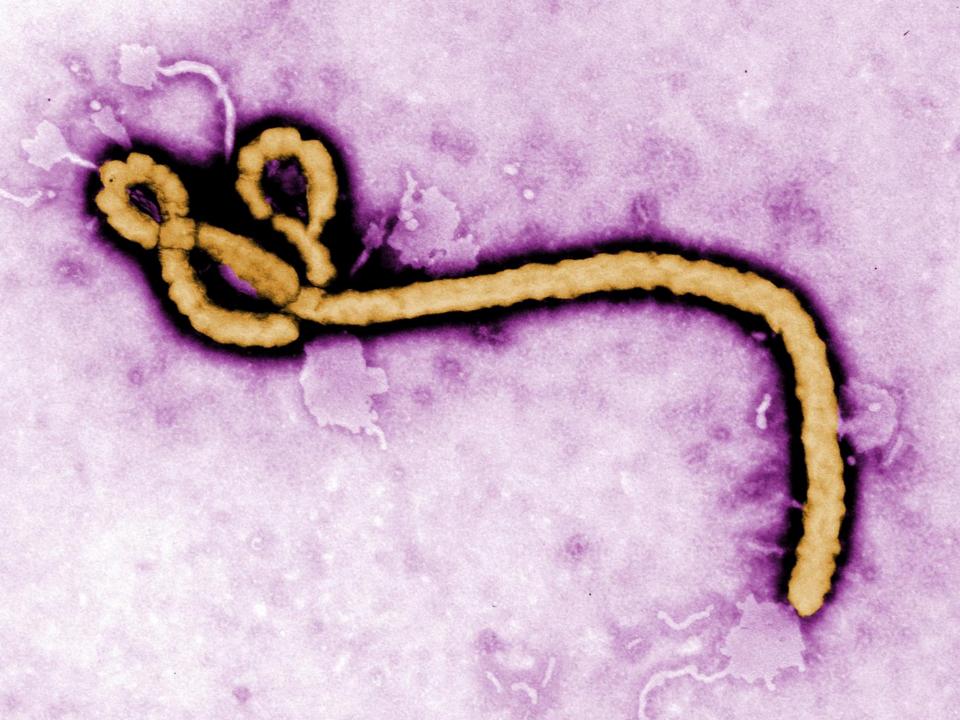
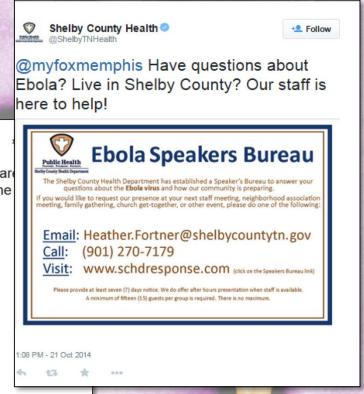


Image Effects on Retransmission









Future Research

Applied

 More case based, comparative events (Zika, and weather based events)

Theoretical

- Developing theory on visual risk communication
 - Borrowing from scholarship on visualizing uncertainty information and the extended parallel processing model (EPPM)



Strategies to employ when sending 140 character messages

SIZE MATTERS



We use this model to examine sociobehavioral responses to warning messages.



Shift from perception of safety to perception of risk

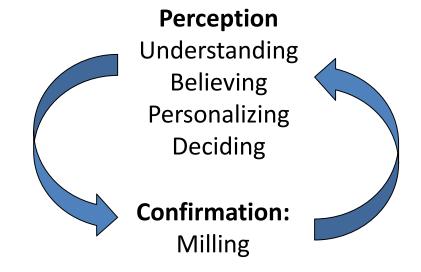


Style

Clear, specific, certain, accurate & consistent

Content

Hazard, time, location, source & guidance











Saturday, July 25



EMERGENCY ALERT

NWS EUREKA, CA TSUNAMI WARNING. A MAGNITUDE 8.9 EARTHQUAKE OCCURRED NEAR JAPAN AT 11:46 PM PST JUL 24, 2015 INITIAL WAVES WERE DETECTED AT 0830 AM PDT JUL 25, 2015. DOCKS HAVE BEEN DESTROYED AT CRESCENT CITY HARBOR.

DAMAGING WAVES HAVE BEEN SIGHTED IN HUMBOLDT BAY AND MOVING UP THE MAD RIVER. OTHER WAVES WILL STRIKE OVER MANY HOURS AND MAY BE DEADLY.

THE TSUNAMI WARNING IS INEFFECT FOR DEL NOTRE, HUMBOLDT AND MENDOCINO COUNTY COASTAL AREAS INCUDING CRESCENT CITY, KLAMATH, EUREKA & ARCATA.

IF YOU ARE IN AN IMPACT AREA AND CANNOT REACH HIGH GROUND, GO TO AN UPPER FLOOR OF A TALL BUILDING. STAY OFF BEACHES. DO NOT USE WATERCRAFT. TSUNAMI WAVES MAY BE FILLED WITH DEBRIS, WHICH CAN INJURE OR KILL PEOPLE AND WEAKEN OR DESTROY STRUCTURES.

IF YOU SEE THE OCEAN WATER PULL BACK AND EXPOSE THE SEA FLOOR, RUN TO HIGHER GROUND AS FAST AS YOU CAN BECAUSE A TSUNAMI IS ABOUT TO STRIKE.

IF YOU ARE NOT IN A TSUNAMI IMPACT AREA, STAY AWAY. ONCE YOU ARE IN A SAFE LOCATION, STAY THERE UNTIL OFFICIALS ADVISE IT IS SAFE TO LEAVE.

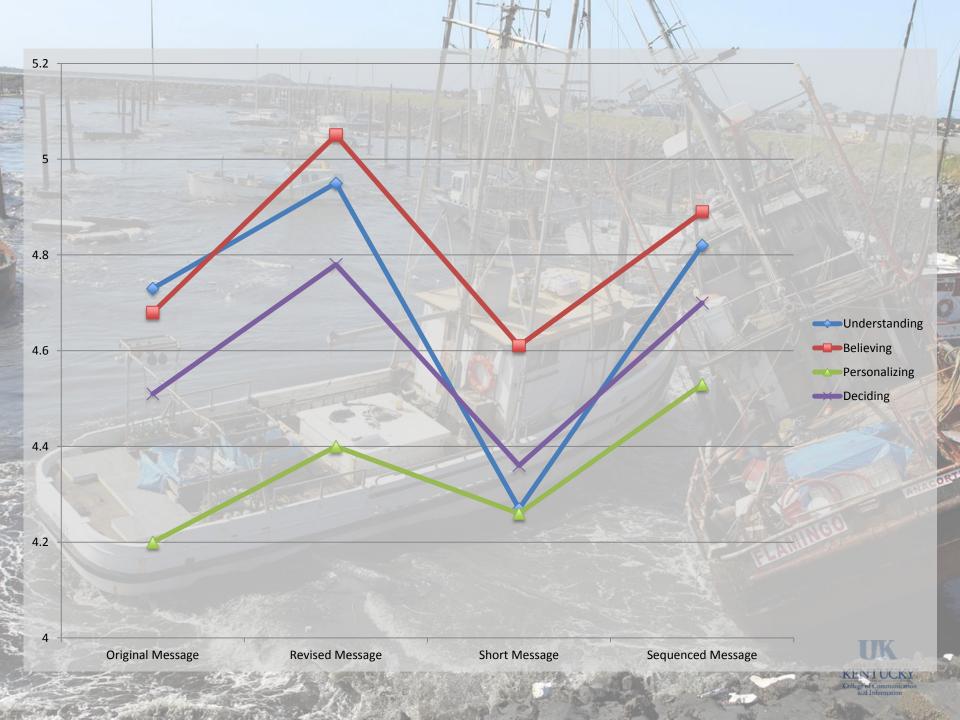
LISTEN TO YOUR LOCAL MEDIA AND EMERGENCY OFFICIALS FOR ADDITIONAL TSUNAMI UPDATES. IF AVAILABLE, REFER TO TSUNAMI.GOV FOR MORE INFORMATION.

TSUNAMI WARNING MESSAGES WILL BE UPDATED EVERY 30 MINUTES OR SOONER.









Future Research

Applied

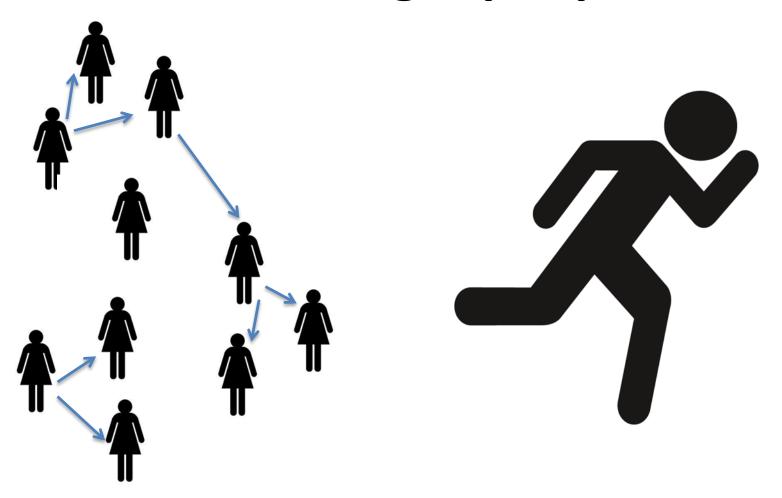
- Online experiments on effective messaging
 - Disordered/Random order sequenced messages
 - Short messages with multi-media content
 - Identifying key message content

Theoretical

Linking theory to empirically developed models



Conclusion: To get people to...



Share: style matters

Protect: size matters





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