



STATISTICS AND METHODS

**SAM LAB**

ARIZONA STATE UNIVERSITY

# How to Present Your Research: Posters and Presentations

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# Research Posters

## INTRODUCTION

- Social media use (SMU) is associated with increased likelihood of poorer mental health outcomes (Berryman et al., 2017; Coyne et al., 2017)
- Yet there is also research indicating a more nuanced relationship between SMU and mental health
  - The ways in which an individual uses SM has been shown to moderate the relation between degree of SMU and mental health (Escobar-Viera et al., 2015; Hardy & Castonguay, 2018)
  - The degree to which SMU and mental health correlate with other online phenomena (e.g., cyberbullying) has been found to vary by gender (Schodt et al., 2021)

### Current Study

We investigated whether the relation between both passive SMU and active SMU and depression is moderated by gender

- **Active SMU** is direct engagement with content online, such as posting a status or sending a direct message to a friend
- **Passive SMU** is indirect engagement with content online, such as scrolling through social media and reading others' content

## METHOD

- Performed secondary data analysis of data collected from a sample of U.S. adults via Prolific.co ( $N = 462$ ; 56.3% cisgender women, 43.7% cisgender men; age:  $M = 31.0$ ,  $SD = 11.5$ )

### Key Variables

- **Gender:** measured with dichotomous grouping variable, with a focus in the present study on cisgender individuals (cisgender men = 202; cisgender women = 260)
- **Depression:** measured with the Center for Epidemiological Studies Depression Scale (CES-D)
- **SMU:** Passive & Active Social Media Use Scale (Escobar-Viera et al., 2018)

## REFERENCES

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Kim, S., Klabber, M., Boyle, M.H., & Georgiades, K. (2019). Sex differences in the association between cyberbullying victimization and mental health, substance use, and suicidal ideation in adolescents. *The Canadian Journal of Psychiatry*, 64, 128-139.

Schodt, K. B., Quatro, S. J., Bhaader, B., Hall, D. L., & Silva, Y. N. (2021). Cyberbullying and Mental Health in Adults: The Moderating Role of Social Media Use and Gender. *Frontiers in psychology*, 12, 674298. https://doi.org/10.3389/fpsyg.2021.674298

## RESULTS

- To investigate whether the relation between passive and active SMU and depression is moderated by gender, we tested separate moderation models using PROCESS (model 1) in SPSS (Igaruta & Hayes, 2021)
- In the first model, active SMU, gender, and their interaction were entered as predictors of depression.
  - There were no significant main or interaction effects for this model.
- In the second model, passive SMU, gender, and their interaction were entered as predictors of depression
  - There was a main effect for gender, with women reporting higher levels of depression than men,  $b = 0.40$ ,  $SE = 0.16$ ,  $t(461) = 2.55$ ,  $p = .011$ , that was qualified by a significant Passive SMU x Gender interaction,  $b = -0.07$ ,  $SE = 0.03$ ,  $t(461) = -2.37$ ,  $p = .018$ .
  - Greater passive SMU predicted higher levels of depression in men,  $b = 0.11$ ,  $SE = 0.05$ ,  $t(461) = 2.42$ ,  $p = .016$ , whereas passive SMU and depression were uncorrelated in women.

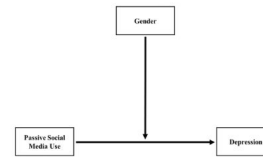


Figure 1. Conceptual diagram for moderation model with passive SMU, gender, and depression

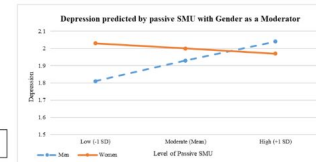


Figure 2. Simple slopes for relation between passive SMU and depression by gender

## DISCUSSION

- For cisgender men, higher levels of passive SMU corresponded with greater symptoms of depression. For cisgender women, however, there was no correlation between degree of passive social media use and depression.
- Interestingly, this pattern of moderation did not emerge for active SMU.
- These findings highlight the importance of investigating gender differences in the relation between SMU and mental health, broadly, as well as examining how different ways of using SM can yield crucial insights.

## ACKNOWLEDGEMENTS

This research was supported by NSF Awards #1719722 and #2036127.



## Anti-Asian Prejudice on Twitter during the COVID-19 Pandemic

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### INTRODUCTION

- The COVID-19 pandemic is a global event that has been accompanied by a marked increase in prejudice and discrimination against those of Asian descent (Grover et al., 2020; Tessler et al., 2020).
- Anti-Asian prejudice in the U.S. has a historical basis, with much of the racism occurring in face-to-face interactions (AAPI Hate, 2020).
- Throughout the current pandemic, anti-Asian prejudice has also appeared to increase in communications via social media (Yang et al., 2020).

#### Proposed Study

- This study will examine the prevalence of anti-Asian content on Twitter since the start of COVID-19, with a primary objective of exploring spatial and temporal patterns in anti-Asian prejudice in relation to global events.

### DATA COLLECTION & PROPOSED ANALYSES

- We will analyze over 2 million tweets on Twitter posted between January 31, 2020 and January 6, 2021.
- Data were collected using the standard and premium Twitter API. Geolocation was generated using location information in the raw data, with approximate matches made using FuzzyWuzzy Python library and Levenshtein distance function.
  - Only user-reported data were used to collect geolocation information.
- For each date for which data were collected, we will examine the number of times the following hashtags and keywords reflecting anti-Asian prejudice appeared:
  - Racist hashtags:** #Chinavirus, #Chinesevirus, #Chinesepague, #Wuflu, #Kungflu, #Clangchong, #Makechinapay, #CCPvirus, #Chinadedpeopleid
  - Racist keywords:** Bat soup, go back to China, gook, bioweapon
- We will also examine the frequency of the following positive hashtags:
  - Positive hashtags:** #washdohate, #racismisavirus, #lanotavirus, #hateisavirus

#### Proposed Analyses

- Conditional growth curve modeling to estimate the frequency of each hashtag over time
- Content evolution to identify similar words and how the similarity changes over time
- Sentiment analysis to determine the most prevalent emotion shared by posters who use racist hashtags and posters who use positive hashtags.

### ACKNOWLEDGEMENTS

This research was supported by NSF Awards #1719722 and #2036127.

### PRELIMINARY FINDINGS

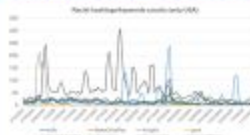


Figure 2 shows a frequency chart of all racist words/hashtags over the data collection period

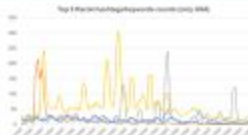


Figure 3 is a sample of the top 5 most frequently used racist words/hashtags over the data collection period

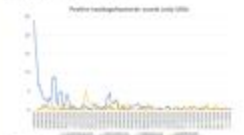


Figure 4 shows a frequency chart of all positive hashtags over the data collection period



Figure 5 shows the frequency of racist words/hashtags per state



Figure 6 shows a frequency chart of the combined frequency of racist and positive hashtags over the data collection period

- The data in these figures are comprised of tweets from June 12<sup>th</sup>, 2020 to November 15<sup>th</sup>, 2020
- Out of all the tweets collected 17,692 contained racist hashtags, 31,490 contained racist keywords, and 349 contained positive hashtags
- The prominent peaks included in the frequency charts coincide with real life COVID-19 related events (e.g., widely-shared tweets of political leaders).

### REFERENCES

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# Powerpoint Presentations

# Slide Presentation

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StorySet (Icons; illustrations)	<a href="https://storyset.com/">https://storyset.com/</a>
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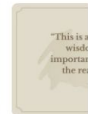
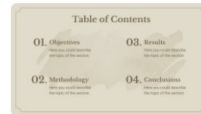
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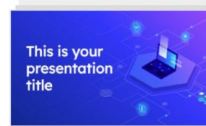
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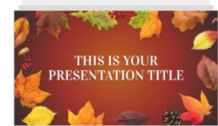
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The screenshot displays the StorySet interface for editing a cartoon illustration. At the top left, there is a "Copy URL" button. The main title of the illustration is "Biologist Cartoon Illustrations". To the right of the illustration is a dark blue button labeled "Animate it!".

The central illustration depicts a female biologist in a white lab coat, holding a small green plant. She is in a laboratory setting with a computer monitor, a microscope, and various lab equipment. The illustration is set against a light green circular background.

Below the main illustration, there is a section titled "Check out this illustration in other styles" with four style options: Rafiki, Bro, Amico, and Pana. The "Bro" style is currently selected.

On the right side, there are three main customization panels:

- COLOR:** A "Change color" button with a green circle icon.
- BACKGROUND:** Three options: "Hidden", "Simple" (selected), and "Detailed".
- LAYERS:** A list of layers: "Table", "Bottle", and "Microscope", each with a toggle icon. Below the list is a "Show all layers" link.

At the bottom right, there are two download buttons: a green "Download SVG" button and a white "Download PNG" button.

At the very bottom right, there is a "Freepik License" section with the text "Free for personal and commercial" and a link to the full license terms.

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Icons

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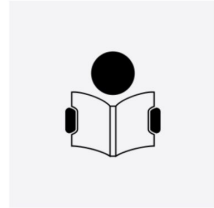
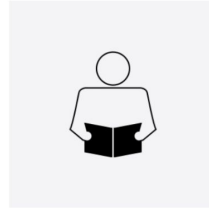
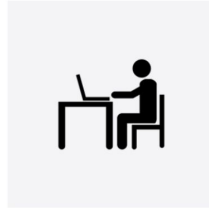
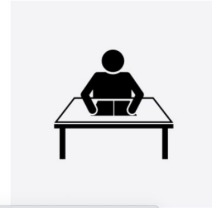
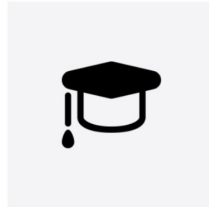


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# Examples



## Secondary Data Analysis from the MATCH Study

Mothers' and Their Children's Health Study

- Recruitment occurred at Dignity Health St. Joseph's Hospital and Medical Center



Electronic Survey



In-person Interview



Prenatal and Birth Outcome Data

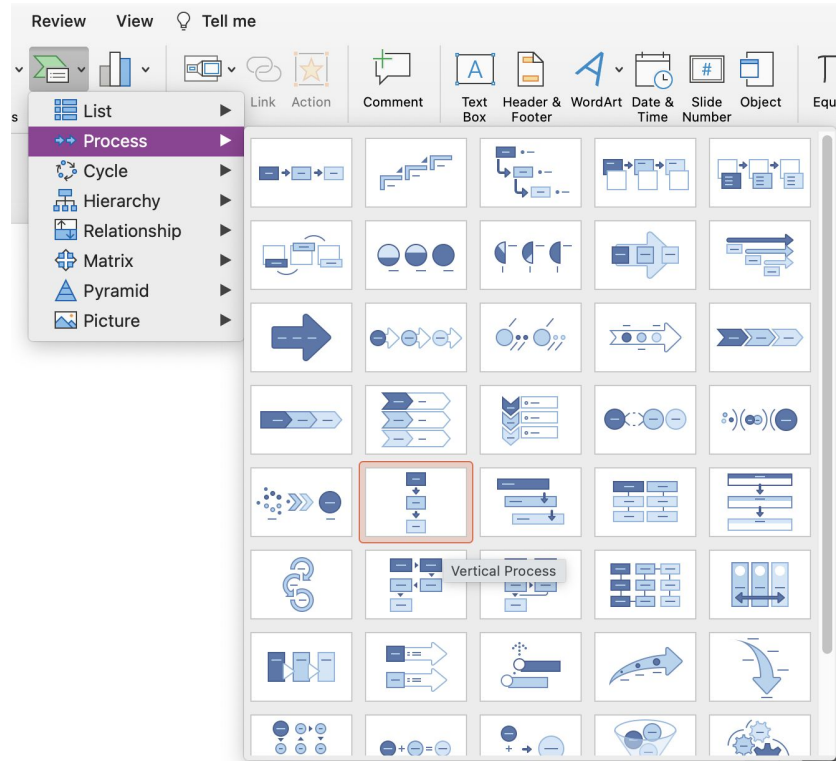


# What information should be included on a slide?



# Other Considerations

- Charts and Graphs
- Smartart



## Title Page

Include title of research, your name, and your faculty advisor's name (and any other faculty who worked with you on the project)

## Background

Include information about variables in study and any previous research

## Proposed Analyses

Include a diagram to map out your hypotheses

## Method

Include information about the participants, measures used, and procedures

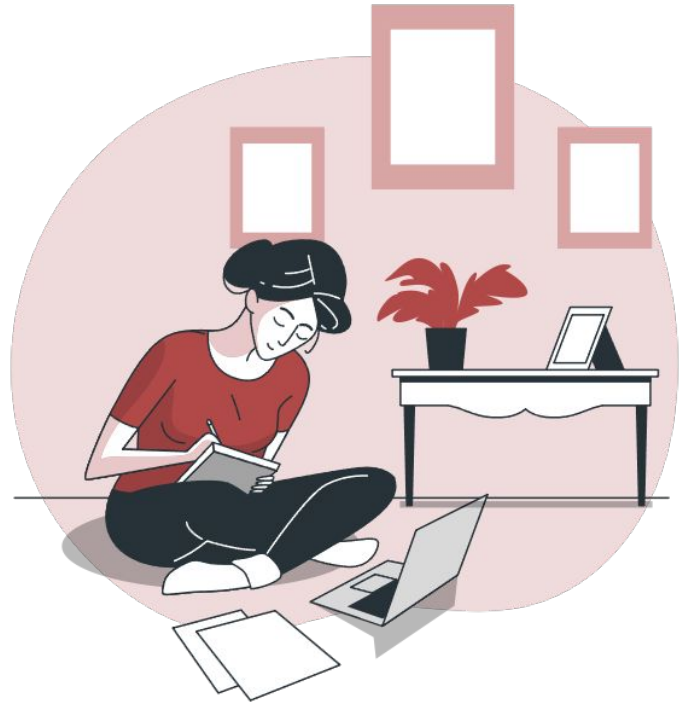
## Results and Discussion

Conclude the findings and future direction of research

# How to give a talk

# Before the Talk

- Prepare
- Practice
- Time Yourself
- Record
- Review
- Modify





# During the talk

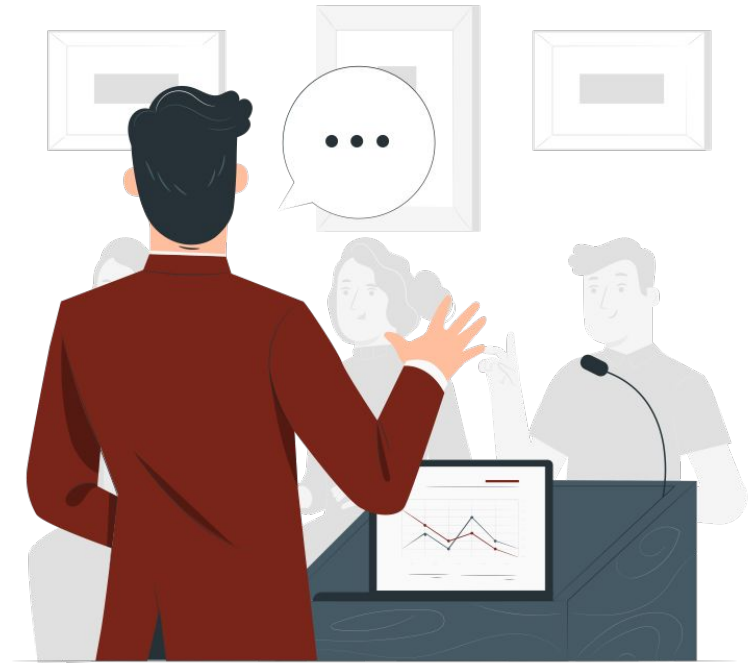
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## Do:

- Present professionally
- Have notes nearby
- Introduce yourself and advisor
- Make eye contact
- Speak loudly and clearly

## Don't

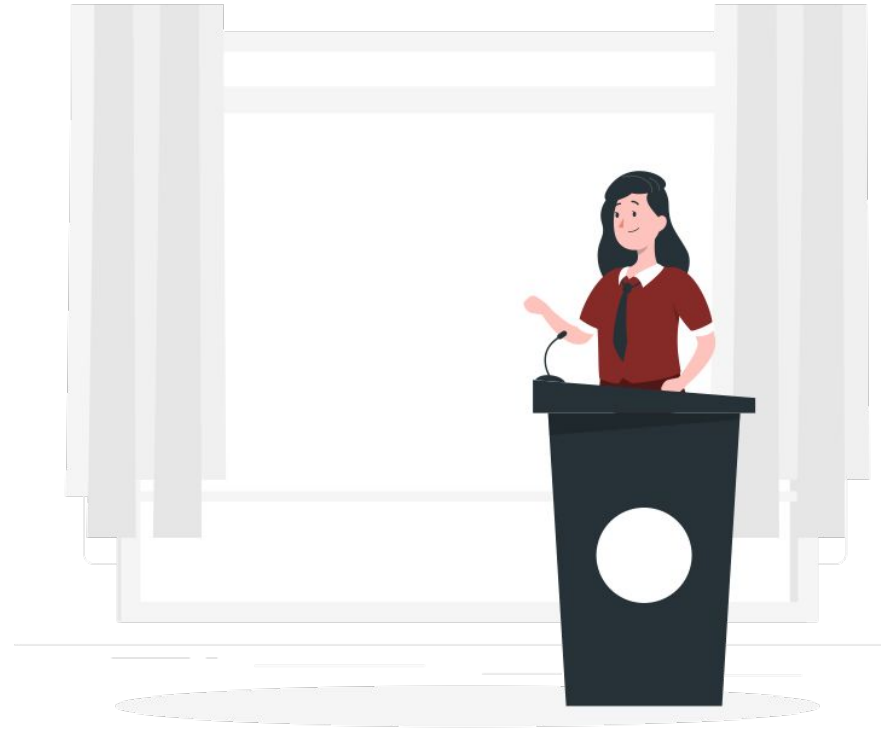
- Look at notes or slides the whole time
- Wear inappropriate clothing
- Stop presentation if a mistake is made



# After the talk

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- Thank audience
- Ask audience if there are any questions
- Answer questions one by one until time is up



# Conferences

# Considerations

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What type of research are you conducting?

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What are the costs associated with attending?

---

Do you want to attend virtually or in-person?

---

Do you want to present research or just attend as a guest?

---

What type of submission do you want to make?

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**\*A note: networking\***

# Opportunities

— — —

- Attending as a guest
- Attending as a presenter
  - Posters
  - Symposia
  - Talks
  - Workshops
- In-person vs online

# Submission Requirements for Posters

— — —

- Title of the project
- Authors (and author order)
- Abstract
  - Sometimes there are multiple abstracts
- Subject Area
- Type of submission
  - Proposal
  - Data collection