

# **Research is for Everyone: Addressing Accessibility Barriers in Academic Presentations**



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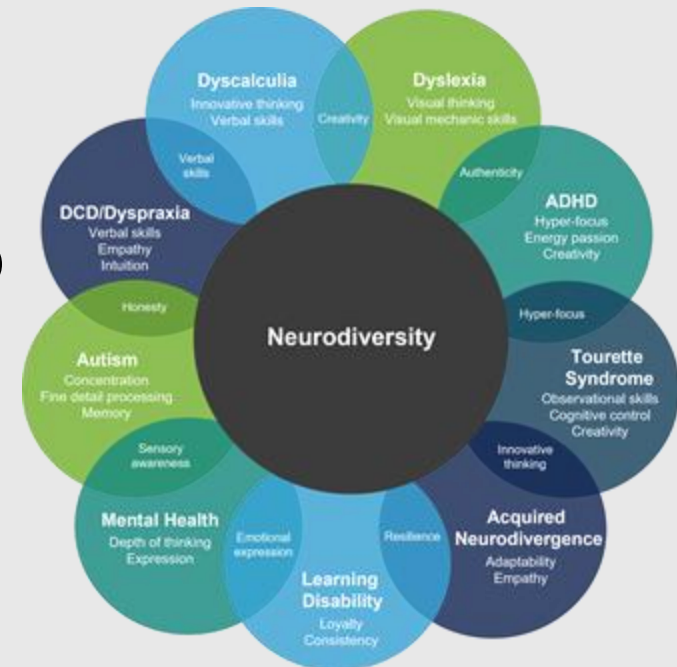


# Resources on Google Drive



# Terminology

- Screenreader: a computer program that reads text on a computer out loud.
  - Some individuals who use screenreaders are blind.
  - Some individuals who use screenreaders are not blind.
- Neurodivergent person: an umbrella term to describe people with a range of neuropsychological and psychological disabilities.



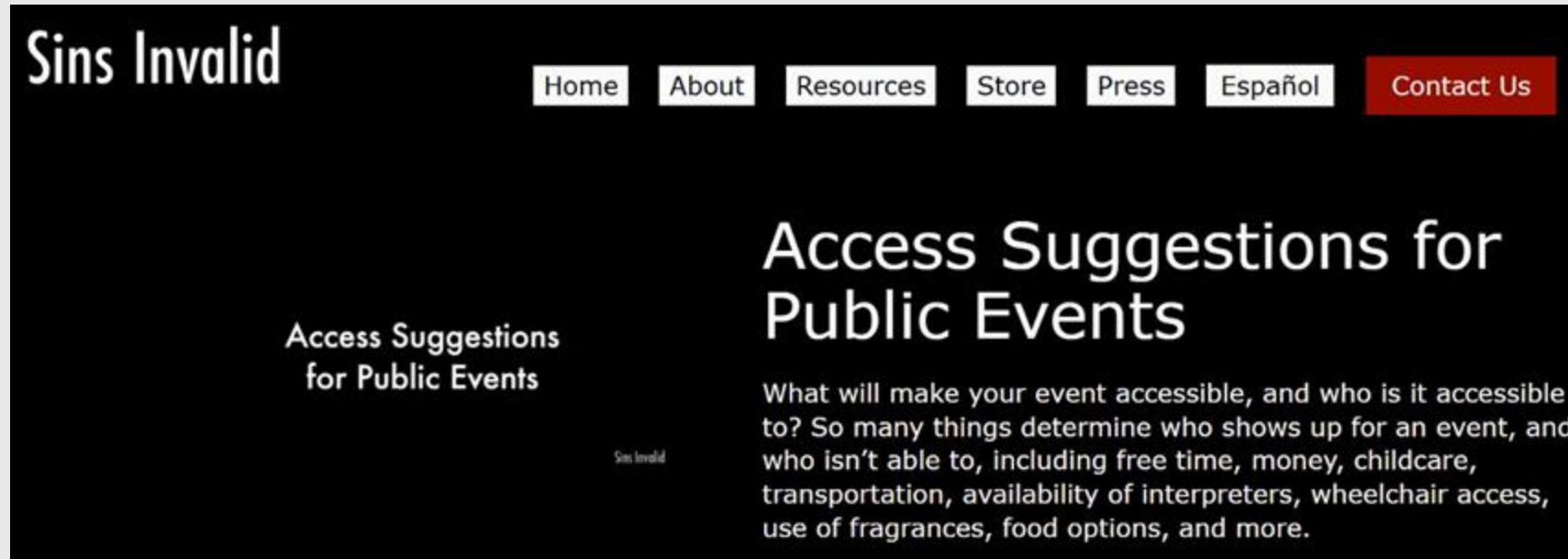
# Manifesto for Inclusive Research

1. Aim to make our lives better
2. Be about our issues and make sense to us
3. Reflect our experience
4. Support our campaigns
5. Have advocates and researchers standing together
6. **Make the research processes and findings accessible**

[International Association for the Scientific Study of Intellectual and Developmental Disabilities \(IASSIDD\) Inclusive Research SIG](#)

# What is your role in inclusive dissemination of research?

## 1. Conference organizers



The screenshot shows the Sins Invalid website with a black background and white text. The navigation menu at the top includes links for Home, About, Resources, Store, Press, Español, and Contact Us. The main content area features the title 'Access Suggestions for Public Events' and a paragraph of text discussing event accessibility factors.

**Sins Invalid**

[Home](#) [About](#) [Resources](#) [Store](#) [Press](#) [Español](#) [Contact Us](#)

### Access Suggestions for Public Events

What will make your event accessible, and who is it accessible to? So many things determine who shows up for an event, and who isn't able to, including free time, money, childcare, transportation, availability of interpreters, wheelchair access, use of fragrances, food options, and more.

[Sins Invalid](https://www.sinsinvalid.org/)

# What is your role in inclusive dissemination of research?

1. Conference organizers
2. Research teams

# What is your role in inclusive dissemination of research?

1. Conference organizers
2. Research teams
3. Individual researchers

# Creating an inclusive space

- Set the tone from the beginning
  - Introduce yourself with pronouns and a visual self-description
  - Invite audience members to get up, move, stim, etc.
  - For virtual events where audience camera can be on: don't require participants to turn their cameras on.



# What is the goal of conference presentation slides?

- Provide a visual support to your main talking points
- Show your results

The goal of conference presentation slides is to support your **entire** audience's understanding of your presentation topic!

# Multiple modalities of processing information

**Spoken  
Descriptions**



- Include spoken descriptions of relevant text or graphics that appear on your slide as part of your presentation.



**Written Text**



- Include visuals of important text on your slides.

# Multiple modalities of processing information

- Link and QR code to a downloadable public version of slides so someone can listen along or pull up in a way more accessible to them or have more processing time to think about your presentation.
- Allows one to revisit the presentation at their own pace, make any adjustments to format to make the presentation accessible to them, and listen to the slides with their screenreader\* if they use one.



\*Note: screenreader usage amongst neurodivergent individuals is way more common than most people realize.

# Captions



- Level 1: Live captioner
- Level 2: PowerPoint/  
Google Slides captions
  - consider a common-errors guide

# Tips for successful auto-captioning

- Speak clearly and at a moderate pace
  - 120-150 words per minute



Read by Speechify browser extension at 140 words per minute

# Tips for successful auto-captioning

- Speak clearly and at a moderate pace
- Avoid overlapping speech
- Use simple, direct language (avoid jargon when you can)
- Identify speakers
- Use a high quality microphone

# Slide content



- Keep slides relatively simple and avoid too much visual clutter.
- Graphics are engaging and can be used to help convey key information
  - Keep your graphics basic, but not childish



# Making graphics accessible

- How to create alt text:
  - Alt text in PPT: right click to pull up options for any individual text box -> view alt text -> write alt text that is the same as the table content, or, if appropriate, mark your image as decorative.
  - Alt text is particularly important if you are taking the highly recommended step of sharing a downloadable version of your PowerPoint.
- The background color of your graphic should match to the background color of your slide.





Check Accessibility Font Color Text Highlight Color Shape Fill Shape Outline Inspect without Color Spelling Slide Title Reading Order Pane Alt Text Mark as Decorative Group Insert Header Row Link Text Always Use Subtitles Subtitle Settings Insert Captions Accessibility Help

Review Color & Contrast Screen Reader Captions & Subtitles Resources

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- 14 Slide content
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- 18 Be aware of AI bias!
- 19 Stats tables

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- The background color of your graphic should match to the background color of your slide.



### Alt Text

How would you describe this object and its context to someone who is blind or low vision?

- The subject(s) in detail
- The setting
- The actions or interactions
- Other relevant information

*(1-2 detailed sentences recommended)*

Content marked as decorative will not expose a description to screen readers.

Mark as decorative ⓘ

Powered by Office Services

# Make graphics inclusive

- Use graphics/images that reflect the population
- Disrupt stereotypes about who can be autistic
- Use graphics created by the disability community



Disability: In



Disability is Beautiful

# Be aware of AI biases!



“Clip art of a person presenting at a conference”



“Replace the speaker with a black woman”



“Replace with a black woman in a wheelchair”

# Stats tables

- Say what you mean in plain English without adding numbers or technical terms up front. Then dive in and get technical.
- Tables should have meaningful headers so they can be read by screen readers.

**Table 1. Dynamicity predicts microaggressions, anxiety symptoms and depressive symptoms.**

Predictors	Microaggressions	Discrimination	Anxiety symptoms	Depressive symptoms
	Beta	Beta	Beta	Beta
Dynamicity	0.28***	0.16	0.30***	0.20*
Visibility	0.32***	0.29**	0.21*	0.22*
Race/ethnicity (BIPOC=1)	0.03	0.30	0.03	-0.04
Gender (Woman=1)	0.06	-0.17*	-0.05	0.003
Sexual orientation (LGBQ+=1)	0.27***	0.27**	0.17	0.26**
Dynamicity x Visibility	-0.09	-0.13	-0.07	-0.02

# Contrast

- While maintaining a 4.5:1 color contrast ratio, avoid stark contrast (e.g. black text on a white background; bright color text/graphic on almost any background).
  - This is because strong contrast can create eyestrain.
  - Maintaining a 4.5:1 color contrast ratio is important because neurodivergent or not, a lot of people experience some level of visual impairment.
  - Check your work using [WebAim](#)



# Contrast: example

Which of these do you prefer to read?

**Which of these do you prefer to read?**

**Which of these do you prefer to read?**

# Contrast Checker

[Home](#) > [Resources](#) > Contrast Checker

**Foreground**

Hex Value  
#

Color Picker  Alpha

Lightness

**Background**

Hex Value  
#

Color Picker

Lightness

Contrast Ratio  
**8.59:1**

[permalink](#)

-  Related Resources
- [Contrast and Color Accessibility](#)
  - [Quick Reference: Testing Web Content for Accessibility](#)
  - [WebAIM Auditing & Evaluation Services](#)
  - [Web Accessibility for Designers](#)
  - [Link Contrast Checker](#)
  - [Contrast Checker Bookmarklet](#)

## Normal Text

WCAG AA: **Pass**  
WCAG AAA: **Pass**

The five boxing wizards jump quickly.

## Large Text

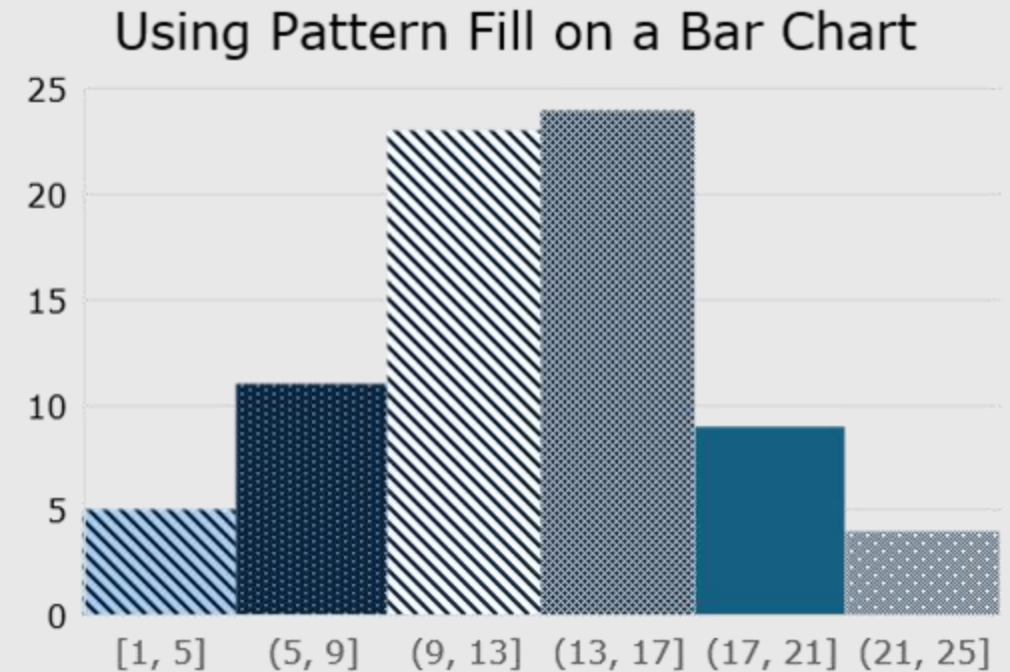
WCAG AA: **Pass**  
WCAG AAA: **Pass**

The five boxing wizards jump quickly.



# Color to convey meaning

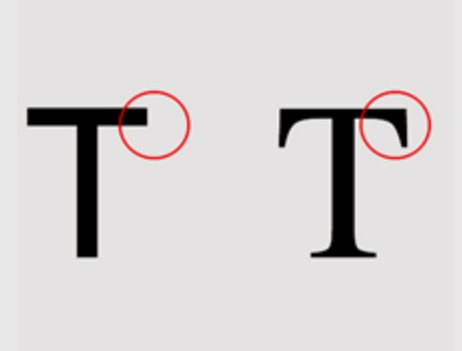
- Use an additional modality other than color to convey meaning.
  - E.g., different patterns or labels on your graph.
  - This is because a lot of people are color blind.
  - This is especially important for red and green as a significant proportion of the population is red-green colorblind.
    - 8% of people assigned male at birth!



# Font & text size

- Must have: a sans-serif font.
  - Sans serif font: a typeface that doesn't have decorative lines or tapers at the ends of letters.
  - Best practice: verdana or calibri.
    - In addition to being sans serif, these fonts have good letter and word spacing for people with dyslexia.
- Font size should be at least 18 point.
  - Bigger, as long as it does not impair readability (e.g., 100 point font) is better.
- Use left-aligned text when possible.
  - Left-aligned text is easier for many people with dyslexia and other neurodivergences to read than center or right-aligned text.

## Sans serif vs. serif



# Readability: Case usage

- Avoid blocks of all caps.
  - The equal height of all letters makes them more difficult to differentiate from each other.
- Title case vs. sentence case
  - Many people find sentence case easier to read than title case.

## All caps vs. lowercase example



The image shows two rows of text. The first row contains the words 'Orange', 'Apple', and 'Pear' in lowercase, with each word highlighted by a yellow rectangular box. The second row contains the words 'ORANGE', 'APPLE', and 'PEAR' in all caps, also with each word highlighted by a yellow rectangular box. The boxes in the all caps row are wider than those in the lowercase row, illustrating how uniform letter height in all caps makes individual words harder to distinguish.

Orange Apple Pear

ORANGE APPLE PEAR

# Readability: Spacing

- Use 1.5 spacing.
  - Increases readability. 1.15 is also better than the default 1.0 spacing, but it will create barriers for more people than 1.5 will.
  - 2.0 is technically best practice, but many neurodivergent people find the lines to be too far apart.

# Plain language

- There is an increasing focus on community-engagement with research-especially in the autism field
- Researchers need to explain their work in a way everyone can understand.
- General rule of thumb is 6th to 8th grade reading level.

# Some guidelines for writing in plain language

- Use simple and familiar words
- Keep sentences short and direct
- Use active voice
- Avoid jargon and technical language
- Use clear formatting
- Be concise
- Use examples when needed

# Check readability

- [Hemingway Editor](#)
  - Highlights complex sentences and suggests simpler alternatives.
  - Provides a readability grade level.
- [Microsoft Word](#)
  - Click File > Options > Proofing.
  - Run Spelling & Grammar Check.

# Offer options for audience Q&A

- Provide options for your audience to ask questions
- Zoom has built in chat and Q&A features
  - Anonymous Q&A option
- Live presentations
  - Fancy tech: Live polling/Q&A apps like [Slido](#), [Mentimeter](#)
  - Simple tech: Google forms, Padlet
  - No tech: Sticky notes, notecards



# Let's try it out

What is your suggestion for alt text for this image?



Join at  
**slido.com**  
**#3517 249**

slido

Please download and install the Slido app on all computers you use



**What is good alt text for this image?**

① Start presenting to display the poll results on this slide.

# Conference Posters

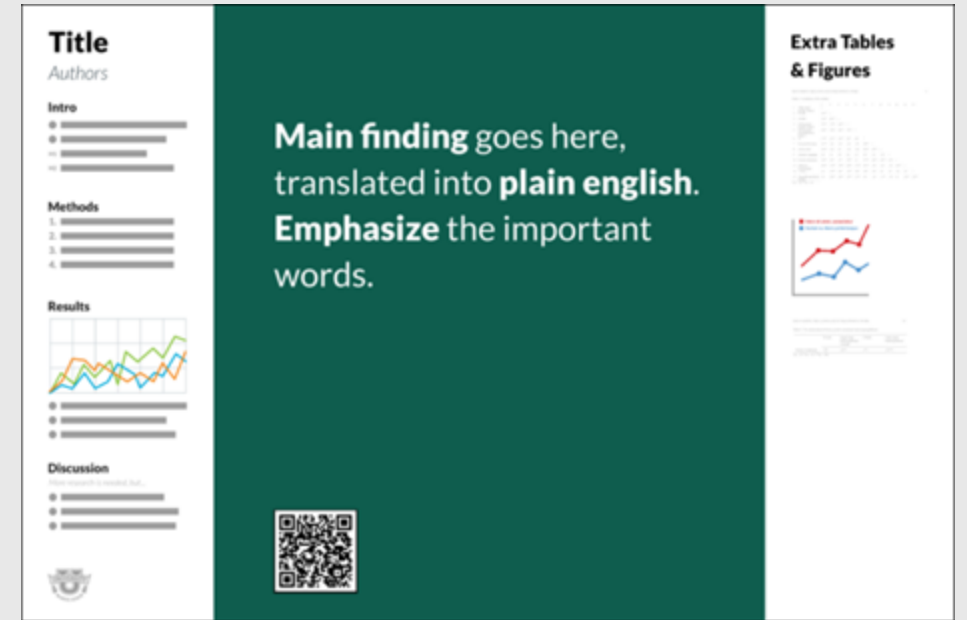
# Formatting posters

- General guidelines are similar to oral presentations
  - ✓ Multiple modalities of processing information
  - ✓ Content should be informative but not busy
  - ✓ Tables should be clear
  - ✓ Contrast should be adequate but not jarring
  - ✓ Use a modality other than color to convey meaning
  - ✓ Sans serif fonts using left-aligned text
  - ✓ Alt text for images/graphics

# Formatting posters

- Be ready to describe your poster in plain language
- Spacing may be trickier (when in doubt, space it out!)
- #Betterposter format is helpful for imparting a main takeaway
  - And makes more people stop to at least read your poster title!

# #betterposters



How to create a better research poster in less time

Templates

# Font size

- Should be designed to be read up to 10 feet away
- Main title: 72 point (minimum) - 158 point (ideal)
- Section headings: 42 point (minimum) - 56 point (ideal)
- Body text: 24 point (minimum) - 36 point (ideal)
- Captions: 18 point (minimum) - 24 point (ideal)

# Creating readable versions of posters

- Include a QR code on the poster, so people can download it
- Offer your poster in alternative formats online
  - PPT vs. PDF



# Why object order matters

22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22

## Associations of Dynamic Versus Static Disability with Experiences of Stigma and Mental Health

Elodie Carel<sup>1</sup>, Allecia Reid<sup>2</sup>, & Ashley Woodman<sup>2</sup>  
<sup>1</sup>Children's National Hospital, Washington D.C., <sup>2</sup>University of Massachusetts Amherst, Amherst, MA

### Background

- Dynamic disability, a term introduced in the media, reflects that some people experience fluctuation in their impairments.
- Visible disability is associated with increased reports of experienced microaggressions and symptoms of anxiety and depression.
- People with sporadic impairments may face exclusion from others due to the nature of their symptoms.
- Little is known about the associations of dynamicity with anxiety symptoms, and depression symptoms.
- Objective: Examine whether microaggressions and discrimination mediate the relationship between dynamic disability and symptoms of anxiety and depression.

### Dynamic disability is associated with more symptoms of anxiety and depression and operates via increased experiences of discrimination.

Figure 1. Mediation models for associations of dynamic disability with depressive and anxiety symptoms

### Results

Table 3. Dynamicity as a predictor of microaggressions, anxiety symptoms, and depression symptoms

Predictors	Microaggressions		Anxiety symptoms		Depressive symptoms	
	Beta	SE	Beta	SE	Beta	SE
Dynamicity	0.28***	0.03*	0.21**	0.05*	0.22**	0.07*
Visible	0.02***	0.01**	0.02*	0.01*	0.02*	0.01*
Non-impairment	0.05	0.05	0.05	0.05	-0.04	0.05
Female	0.06	0.07	-0.09	0.08		
Race	0.21***	0.07**	0.17*	0.07*	0.24**	0.09*
Dynamicity × Visible	-0.08	0.18	-0.07	0.16		

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05; \*\*p < 0.01

### Methods

**Participants**

- 127 people with self-reported disabilities.
- On average, participants were 41 years old, White (71.6%), woman-identifying (58.2%), and working full-time (60.5%).

**Measures**

- Ableist Microaggression Scale
- Everyday Discrimination Scale
- Generalized Anxiety Disorder Screener-7
- Center for Epidemiological Studies Depression Scale
- Dynamic Disability Questions: rated 1 (definitely no) to 5 (definitely yes); items were summed

1. Is your impairment more disabling on some days than others?
2. Are you more disabled some days than others?
3. Would you say that your level of disability fluctuates on a regular basis?
4. To what degree does your ability to do the following activities fluctuate? (seeing, hearing, walking, lifting, concentrating)
5. Do you experience periods of time where you rely on your accommodations and/or assistive technology more heavily than others?
6. Are there periods of time where people notice your disability more than others?
7. Are there periods of time where you experience more stigma than usual because of your disability?

### Discussion

- Dynamicity as a significant predictor of microaggressions, depression symptoms, and anxiety symptoms suggests this dimension of disability is related to experienced stigma and symptoms of anxiety and depression.
- The Everyday Discrimination Scale as a mediator of dynamic disability and depression and anxiety symptoms suggests that general discrimination is salient to understanding the association between dynamic disability and symptoms of anxiety and depression.
- Limitations of this study include the need for additional psychometric validation of dynamicity items and longitudinal mediation to confirm findings, and lack of racial/ethnic diversity in the sample.

### Citations

Carel, E. (2022). The role of dynamic disability in mental health. *Journal of Social Issues, 78*(2), 171-188.

Reid, A. L. (2020). Visible microaggressions and the mental health of disabled adults. *Community mental health journal, 55*(1), 173-179.

Carel, E., Woodman, A. S., & Reid, A. L. (2021). The experience of microaggressions, general stigma, and visible disability. *Journal of Social Issues, 77*(2), 171-188.

### Selection

⌵ ✕

Show All

Hide All

⌶ ⌵

Google Shape;100;p1

Google Shape;99;p1

Google Shape;95;p1

Google Shape;92;p1

Google Shape;96;p1

Table 6

Google Shape;96;p1

Google Shape;91;p1

Google Shape;94;p1

Google Shape;90;p1

Google Shape;93;p1

Google Shape;89;p1

Google Shape;95;p1

Picture 8

Picture 10

Google Shape;96;p1

⌶ ⌵

# How this poster would be read by a screen reader

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7. Are there periods of time where you experience more stigma than usual because of your disability?

**Dynamic disability is associated with more symptoms of anxiety and depression and operates via increased experiences of discrimination.**

**Figure 1. Mediation models for associations of dynamic disability with depressive and anxiety symptoms**

Mediation by discrimination for anxiety symptoms = 1.24, 95% CI [0.12, 2.45]  
Mediation by discrimination for depression symptoms = 2.96, 95% CI [0.42, 5.92]  
\*\*\*p < .001; \*\*p < .05; \*p < 0.06

**Results**

**Table 1. Dynamicity as a predictor of microaggressions, anxiety symptoms, and depression symptoms**

Predictor	Micro-aggressions	Discrimination	Anxiety symptoms	Depressive symptoms
	Beta	Beta	Beta	Beta
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Visibility	0.32***	0.29**	0.21*	0.22*
Race/ethnicity (BIPOC+1)	0.03	0.30	0.03	-0.04
Gender (Woman+1)	0.06	-0.17*	-0.06	0.003
Social identification (LGBQ+1)	0.23***	0.23**	0.17*	0.26**
Dynamicity x Visibility	-0.09	-0.13	-0.07	-0.02

\*\*\*p < 0.001; \*\*p < 0.01; \*p < 0.05; +p < 0.06

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- Limitations of this study include the need for additional psychometric validation of dynamicity items and longitudinal mediation to confirm findings, and lack of racial/ethnic diversity in the sample.

**Citations**

Berenson, B. (2020, June 13). My Disability Is Dynamic. <https://medium.com/@ps-awareness/my-disability-is-dynamic-1e242594e5>

Katlyn, S. K. (2020). Ableist microaggressions and the mental health of disabled adults. *Community mental health journal*, 56(6), 1170-1174.

Olson, R., Hayward, H. S., Johnson, W. S., & Vanhook, G. (2019). The experiences of microaggressions against women with visible and invisible disabilities. *Journal of Social Issues*, 75(3), 757-785.

Test your own documents by downloading NVDA for free

NV Access

# Silence decorative objects!



# Templates save time

**ACADEMIC RESEARCH POSTER TEMPLATE**  
Subtitle for Academic Research Poster (48x36 inches)  
Your names and the names of the people who contributed to the presentation

**Introduction**  
Maurs orci mi, varius id diam id, egestas auctor enim. Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue. Donec semper lorem vitae uma pulvinar, in congue massa tristique. Sed in risus nibh. In nisl quam, aliquet sed nibh sit amet, faucibus.

**Methods**  
Maurs orci mi, varius id diam id, egestas auctor enim. Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue. Donec semper lorem vitae uma pulvinar, in congue massa tristique.

**MAURS ORCI MI VARIUS ID DIAM**

- Sed in risus nibh. In nisl quam, aliquet sed nibh sit amet, faucibus.
- Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue.

**ELUMMO AUITO VITAE PURUS**

- Proin semper quam donec semper praesent.
- Finitibus quam tempus, vitae consectetur.

**Data Analysis**  
Maurs orci mi, varius id diam id, egestas auctor enim. Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue. Donec semper lorem vitae uma pulvinar, in congue massa tristique.

**Chart A - Title**

• Series 1 - Series 2 - Series 3

**Chart B - Title**

• Series 1 - Series 2 - Series 3

**Chart C - Title**

• Series 1 - Series 2 - Series 3

**Table 1 - Title**

	1	2	3	4
1	0.91	7.98	3.77	0.44
2	4.88	3.17	0.88	1.12
3	6.16	0.98	0.18	3.88
4	8.21	2.18	0.17	7.17
5	3.88	0.78	10.88	4.48

**Chart D - Title**

• Series 1 - Series 2 - Series 3

**Results**  
Maurs orci mi, varius id diam id, egestas auctor enim. Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue. Donec semper lorem vitae uma pulvinar, in congue massa tristique.

**Graphic Elements**

**References**

- Placeholder text ipsum dolor sit amet, consectetur adipiscing elit.
- Maurs orci mi, varius id diam id, egestas auctor enim.
- Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue.
- Donec semper lorem vitae uma pulvinar, in congue massa tristique.
- Proin semper quam donec semper praesent.
- Maurs orci mi, varius id diam id, egestas auctor enim.
- Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue.

**Conclusion**  
Maurs orci mi, varius id diam id, egestas auctor enim. Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue. Donec semper lorem vitae uma pulvinar, in congue massa tristique.

- Red Head Note:** Con nisl quam, aliquet sed nibh sit amet, faucibus.
- Consectetur Ansemper Nibh:** Praesent at massa nibh. Duis purus neque, facilis curius ultrices vel, ullamcorper ac augue.
- Elementum Cui Dignissim:** Proin semper quam donec semper praesent, vitae consectetur.

**References**

Department of Office name goes here  
School, College or Division name goes here  
buffalo.edu

Interactive sidebar elements:  
Show All Hide All  
Bullet C  
Vertical Section Divider  
Chart B  
Bullet B  
Horizontal Section Divider  
Note  
Arrow  
Chart A  
Bullet A  
Data Analysis Textbox  
Picture Placeholder 1 Ca...  
Picture Placeholder 1  
Methods Textbox  
Horizontal Section Divider  
Introduction Textbox  
Poster Title

## University of Buffalo Poster Templates

# Creating readable versions of posters

- Include a QR code on the poster, so people can download it
- Offer your poster in alternative formats online
  - PPT vs. PDF
  - HTML

# HTML version of poster

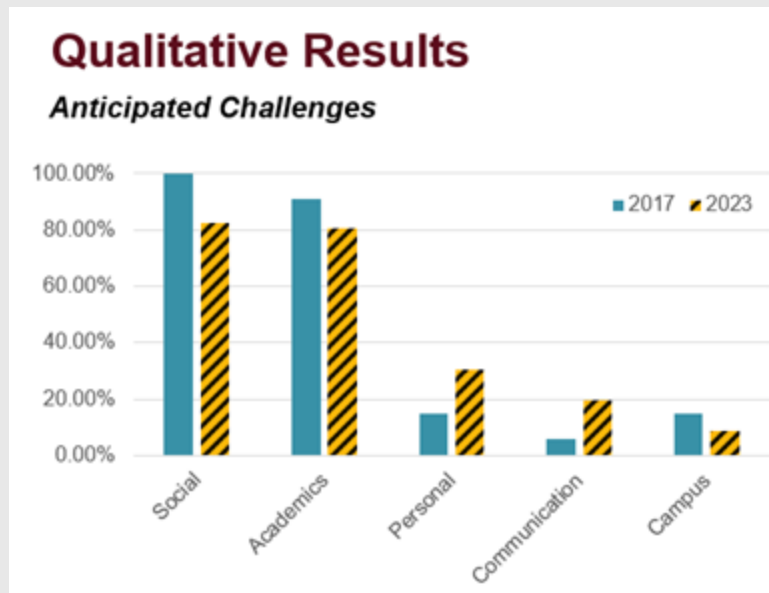
- [Google doc template](#)
- [HTML website](#)
- Use title, subtitle, headings, etc. for easy screen reader navigation
- Explain graphics in a way that makes sense when read aloud without the visual



Access the  
template

# Reformat content

## Printed poster



## HTML poster

Theme	Percentage of participants 2017	Percentage of participants 2023
Social	100.00%	82.61%
Academics	90.85%	80.43%
Personal	14.79%	30.43%
Communication	5.63%	19.57%
Campus	14.79%	8.70%
Parents	1.41%	0.00%

So, this seems like a lot...



# Audience Q&A

# **What are tangible/realistic ways neurodivergent researchers can advocate for being first-person author while not being taken advantage of?**

- Find good mentors.
- Ask explicit questions about authorship at the start of a project.
- Lean on explicit guidelines around authorship (e.g., APA, your institution).