

Welcome!



Ashley Dayer, PhD Associate Professor Project PI



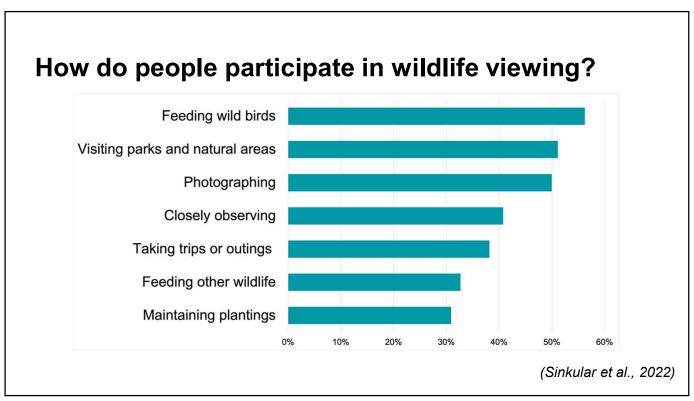
Freya McGregor, OTR, ADAC, CIG Research Associate Project Co-PI



Emily Sinkular
PhD Student



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What types of wildlife do people view?



The majority of respondents were interested in viewing wild birds (79%) and/or land mammals (68%).

(Sinkular et al., 2022)

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Do wildlife viewers engage in hunting and angling?



29%

only fish and view wildlife



3%

only hunt and view wildlife



14%

fish, hunt, and view wildlife



54%

only view wildlife

(Sinkular et al., 2022)

How is wildlife viewing impacted by disability?

39%

of wildlife viewers experience accessibility challenges.

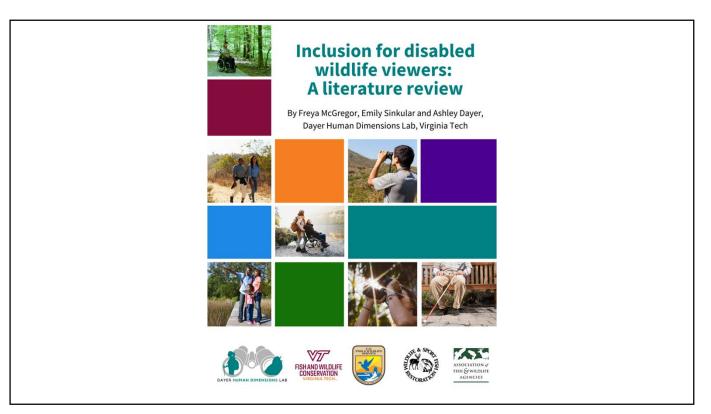
(Sinkular et al., 2024)

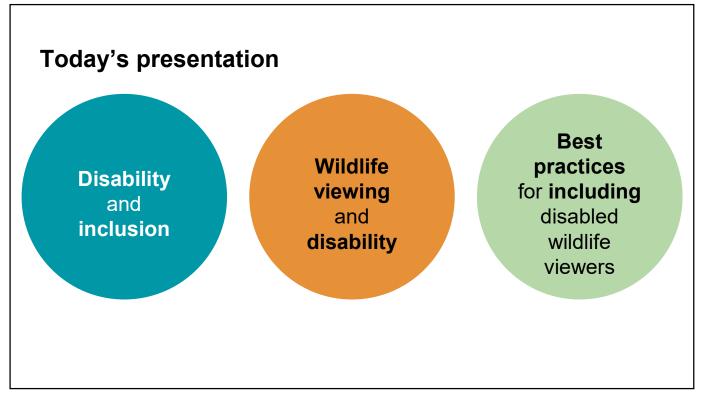
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Do agencies and organizations need to consider wildlife viewers with disabilities?

Agencies and organizations must ensure that people with disabilities have equal opportunities to participate in all programs they offer.

(Americans with Disabilities Act, 1990)







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What does it mean to have a disability?

Disability: "A physical or mental impairment that substantially limits one or more major life activities". May impact someone's:

- Mobility
- Cognition
- Hearing
- Vision
- Ability to live alone, and/or
- Self-care (bathing or dressing).

(ADA National Network, 2023)

How common is disability in the U.S.?

1 in 4

Americans have a disability.

1 in 50

Americans
have a
diagnosed
mental health
condition.

(Centers for Disease Control, 2020)

(Mental Health America, 2022)

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What is the difference between the ADA and inclusion of people with disabilities?

Americans with Disabilities Act, 1990:

- Federal civil rights law to prevent discrimination.
- State/local governments and businesses must comply.
- 2010 ADA Standards for Accessible Design:
 - Covers buildings, parking areas, recreation facilities.
 - Does not cover hiking trails.
 - → A trail cannot be "ADA accessible" or "ADA compliant".

(U.S. Department of Justice, 1990; ADA National Network, 2023)

What is the difference between the ADA and inclusion of people with disabilities?

Inclusion: An active and ongoing effort to **intentionally welcome** and **incorporate** people of diverse backgrounds and life experiences.

- The social and cultural environment: how people interact with each other.
- Just because an entity complies with the ADA does not mean someone with a disability will feel included there.



Photo: Freya McGregor.

(The George Washington University, n.d.)

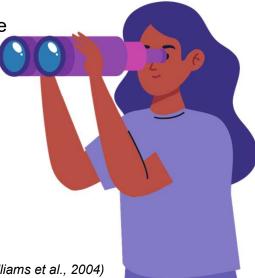
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To what extent do people with disabilities participate in outdoor recreation?

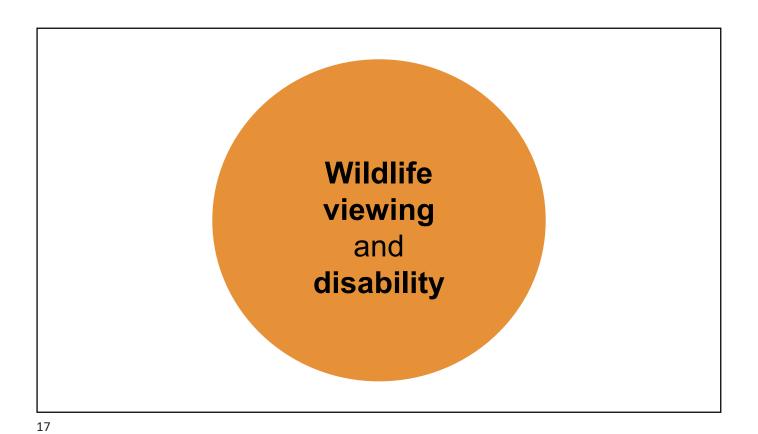
Having a disability ≠ not wanting to recreate

• 20% of public lands recreationists had a family member with a disability

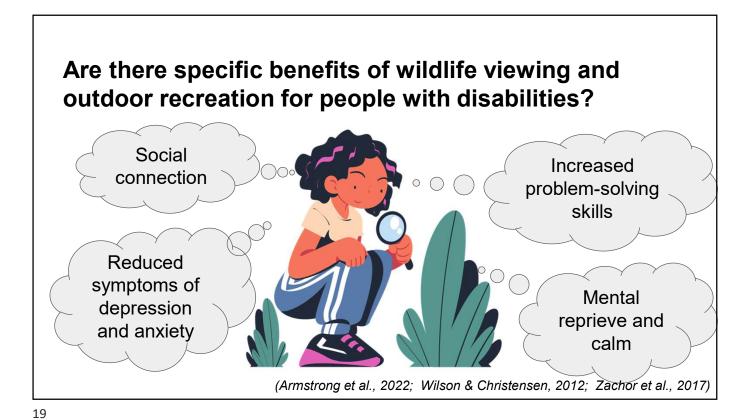
 People with and without disabilities are similarly likely to view wildlife



(Burns et al., 2023; Burns & Graefe, 2007; Sinkular, et al., 2024; Williams et al., 2004)



How do wildlife viewers benefit conservation? **Donating** money to Purchasing products support that **benefit wildlife** or conservation whose proceeds support conservation Collecting Participating in data on civic wildlife or engagement Enhancing habitat wildlife habitat (Cherry, 2018; Cooper et al., 2015; Williams et al., 2021)



What are the personal barriers to wildlife viewing with a disability?

- Lack of:
 - Time
 - Money
 - o Equipment
 - o Knowledge of where to go

*Not always within someone's control.



Photo: Patrick Oaks.

(Sinkular et al., 2024; Karns et al., 2023)

What are the interpersonal barriers to wildlife viewing with a disability?

- Lack of someone to go with
- Lack of other people supporting them to go
- Negative attitudes of others
- Crowds
- Safety concerns

(Sinkular et al., 2024; Karns et al., 2023)

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Lack of accessible features create barriers

to wildlife viewing with a disability

- Accessible trails
- Information about features
- Obstacles, eg. bollards, boulders, gates
- Benches/rest areas
- Accessible bathrooms
- Accessible parking
- Accessible public transport



Photo: Freya McGregor.

(Darcy, 2006; Dippenaar & Kotze, 2005; Karns et al., 2023; Mahmoudzadeh & Kourdi Sarjaz, 2018; Schahfer & Robison, n.d.; Sinkular et al., 2024;)

What are the programming barriers to wildlife viewing with a disability?

- Staff lacking an understanding of disability
- Lack of inclusive programming
- Lack of wheelchair accessible tour vehicles
- Lack of awareness of the impacts of intersectionality

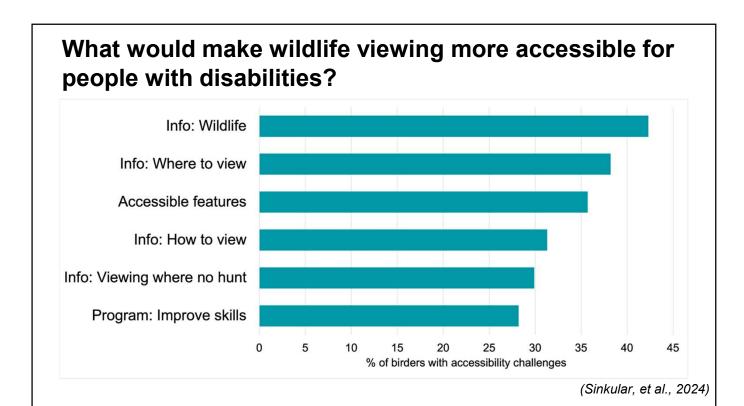


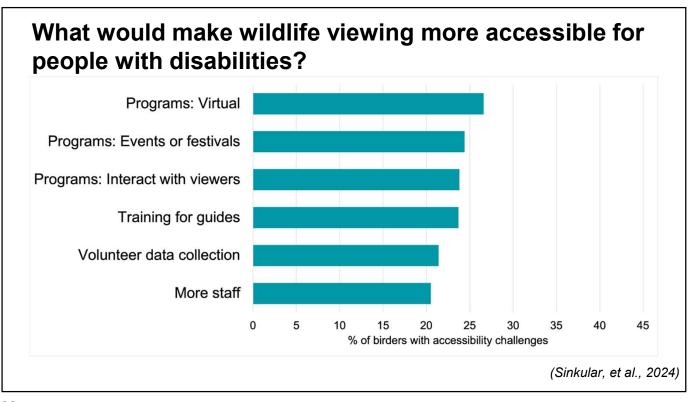
Photo: Freya McGregor.

(Dippenaar & Kotze, 2005; Ghimire et al., 2014; Green et al., 2009; Karns et al., 2023; Sinkular et al., 2024.)

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Best practices for including disabled wildlife viewers





How should we design trails for people with disabilities?

Various guidelines including:

- Outdoor Developed Areas, United States Access Board, 2014.
- Design Guidelines for Accessible Outdoor Recreation Facilities, Parks Canada, 1994.
- Accessibility Design Standards for all Future Projects, Oregon Parks and Recreation Department, 2023.



Photo: Freya McGregor.

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How should we design trails for people with disabilities?

- Surfaces: Firm, stable and slip-resistant.
- Length: Any.
- Width: 36-48".
- Slope: Up to 5%.
- Cross slope: No steeper than 2%.
- Benches: Every 150-200'.



Photo: Freya McGregor.

(United States Access Board, 2014; Parks Canada, 1994; Oregon Parks and Recreation Department, 2023.)

What are the best practices for designing accessible interpretive signs?

Various guidelines including:

- 2010 ADA Standards for Accessible Design, Section 703.
- Wayside Exhibits, National Park Service, 2009.
- Design Guidelines for Media Accessibility, Parks Canada, 1994.
- Smithsonian Guidelines for Accessible Exhibition Design, no date.



Photo: Freya McGregor.

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What are the best practices for designing accessible interpretive signs?

Largest font size __possible for layout

Main points understood in 45 seconds of reading

Strong contrast between text and background colors

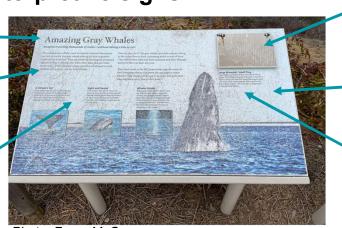


Photo: Freya McGregor.

Provide information in alternative formats

Not a white background (it creates glare)

Text left justified

Use plain language

Sans serif fonts

(ADA Standards for Accessible Design, 2010; National Park Service, 2009 and 2017; Parks Canada, 1994; Smithsonian Institution, no date.)

How do we best communicate with people with disabilities when marketing programs?

- Use up-to-date disability-related language
- In any written communication use plain language:
 - Using headings
 - Organize content logically
 - Write short paragraphs
 - Write short sentences
 - Choose familiar words

- Avoid jargon
- Remove unnecessary words
- Use lists to break up text
- Use bold text (not ALL CAPS) if you need to emphasize

(Federal Plain Language Guidelines, 2011.)

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How do we best communicate with people with disabilities when marketing programs?

- Include disabled wildlife viewers in your marketing materials.
- Explicitly welcome people with disabilities to participate.
- Follow best practices for visual accessibility of any graphics.
- Ensure websites follow the Web Content Accessibility Guidelines.



Photo: Freya McGregor. (Schahfer & Robinson, n.d.)

How do we best communicate with people with disabilities when marketing programs?

For programs held on trails, include:

- Contact information
- Parking and public transport availability
- Availability of toilets and drinking water
- Trail surface, width, maximum and average gradient and cross slope
- Frequency of benches/resting areas
- Obstacles
- Any other trail users



Photo: Freya McGregor.

(Access Recreation, 2013)

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How do we ensure programs are inclusive for people with disabilities?

Staff and volunteers educated on disability inclusion, including:

- Viewing disabled people as "a normal person"
- Cultural humility
- Disability-related language
- Modifying the program or activity
- Soft skills, e.g. patience



Photo: Renee DePrato.

(Anderson & Heyne, 2000; Chikuta et al., 2018, p.9; Schleien et al., 1997; Armstrong et al., 2022)

How do we ensure programs are inclusive for people with disabilities?

- Hold wildlife viewing programs at locations:
 - Serviced by public transportation
 - Physically accessible
- Modify wildlife viewing programs by:
 - o Building in more breaks
 - Moving at a slower pace
 - Creating stationary viewing opportunities
- Provide accurate information about the program's and location's accessibility.

(James et al., 2018; Karns et al., 2023; Schleien et al., 1997; Brown, 2017)

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How do we ensure programs are inclusive for people with disabilities?

- Co-design programs
 - → Increased engagement
- Build relationships and then "provide conditions so they can grow themselves"
 - Network with disability organizations
 - Develop an advisory board of disabled wildlife users

(Charlton, 1998; National Recreation and Park Association, 2018; Sutton-Long et al., 2016; Schleien et al., 1997)

How can we practice allyship to disabled wildlife viewers?

Allyship: Actively and intentionally supporting, uplifting and advocating for a person or group that you do not belong to, often using your privilege to help dismantle systems of oppression and promote social change.

Allyship pushes back against the "poor, tragic disabled people" narrative.



Photo: Freya McGregor.

(Kutlaca & Radke, 2022; Wolbring & Lillywhite, 2023.)

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How can organizations practice allyship to disabled wildlife viewers?

- Use up-to-date language around disability.
- Provide accessibility features proactively, not reactively.
- Develop a Code of Conduct on expected behavior. Uphold it.
- Co-design programs with the disability community.
 - Ask how you can support, rather than assuming you know.
 - Share the community's own work, rather than rephrasing it.
- Introduce disability organizations to your networks and resources.
- Learn how to apologize without being defensive.
- Keep learning! Allyship is a journey, not a destination.

(National Recreation and Park Association, 2018; Phillips & Bledsoe, 2021; Sutton-Long et al., 2016.)

What do we still need to know?

- How many disabled wildlife viewers there are? What kind of wildlife viewing do they engage in?
 - Include a disability-related question in surveys.
- Preferences of disabled wildlife viewers, eg. trail surfaces, design of safety barriers at viewpoints.
- Best practices for designing inclusive programming.

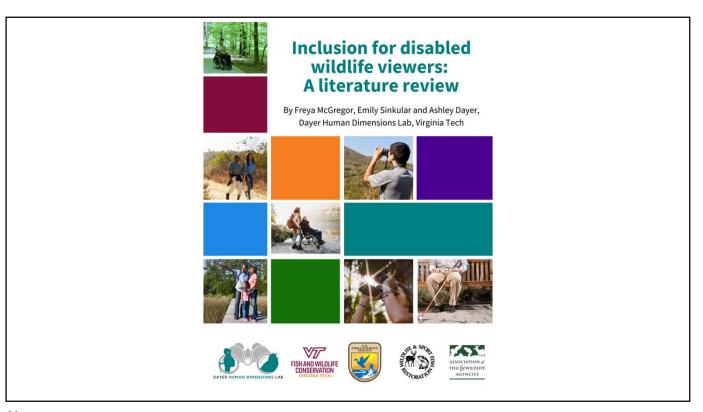


Photo: Freya McGregor.

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What is next?







Thank you for joining us today!

Thank you to our Steering Committee

See you on May 29!

Questions?

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Want more information? https://viewing.fishwild.vt.edu/







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