## Advancing Inclusion for Disabled Wildlife Viewers: Findings from Virginia Tech

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#### Welcome!







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#### Inclusion for disabled wildlife viewers: A literature review

By Freya McGregor, Emily Sinkular and Ashley Dayer, Dayer Human Dimensions Lab, Virginia Tech















#### Literature Review now available!







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#### **Today's presentation**

Wildlife viewers with disabilities Models of disability used by disabled birders Using a strengthsbased approach to birding with a disability

Barriers to wildlife viewing with a disability

Supporting inclusive wildlife viewing



## What is Wildlife Viewing?

"Closely observing, feeding, and photographing wildlife; visiting parks or natural areas to observe, feed, or photograph wildlife; and maintaining plantings and natural areas for the benefit of wildlife."

(U.S. DOI et al. 2018)

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)

## Wildlife viewers with disabilities

## Nationwide survey of wildlife viewers

Ildlife Viewer Surve

#### 4,030 total respondents



# How many wildlife viewers experience accessibility challenges?



Of wildlife viewers reported having *somewhat*, *quite a bit*, or *a great deal* of accessibility challenges when wildlife viewing.

n = 1,556

#### What about hunters and anglers?



Of hunter-angler-viewers reported having *somewhat*, *quite a bit*, or *a great deal* of accessibility challenges when wildlife viewing.

### Who are wildlife viewers with disabilities?

With accessibility challenges

Without accessibility challenges





23% BIPOC



 60% Men

 39% Women

 0.6% Non-binary

\* p < .05

### Participation in wildlife viewing



### Wildlife viewing locations



Models of disability used by disabled birders

## Study: What models of disability do disabled birders invoke when talking about their facilitators to birding?



n = 148

(Sinkular, Dayer, McGregor & Karns, 2024)

## **Defining models of disability**

a set of guiding <u>assumptions</u>, <u>concerns</u>, and <u>propositions</u>... human-made tools for understanding and human-made guidelines for action



#### Models of disability



Medical Model









#### **Geographic Model**



**Identity Model** 

(Johnston, 1996; Retief & Letšosa, 2018; Smart, 2001; Zajadacz, 2015)



"Bird trips geared to specific disabilities would be helpful especially if the leader is knowledgeable about limitations."



Social Model

"How about a **trail designated for "big sit" birders**, where an accessible path or boardwalk leads to a quiet area (how nice if included a **bench** for those not using wheelchairs) near a good birding spot (off the main trail), where one could **stay for a while** and simply observe the birds?"

**Geographic Model** 

"Normalizing the idea that disabilities can be invisible and that younger people may have disabilities. Normalizing not "pitying" people with disabilities."





### Takeaways from this study

 $\rightarrow$  Use the social and geographic models to resonate with birders with disabilities.

→ Need to change attitudes, awareness, and physical designs of birding locations to increase accessibility and inclusion.



Photo: Scott Sinkular.

Using a strengthsbased approach to birding with a disability

## Disability

Historically viewed through a deficit-based lens.

- Medical model of disability aims to 'fix' something that is 'broken'.
- It's even embedded in our everyday language!
  - "Tim suffers from cerebral palsy."
  - "Diane is confined to a wheelchair."
  - $\circ\,$  "Jose lost the use of his legs."

(Gill et al., 2016; Mitter et al., 2019; World Health Organization, 2023.)

### **Strengths-based approach**

- We all have different strengths and weaknesses.
- Rather than focusing on remediating deficits, what if we leaned into our strengths?
  - Less exhausting
  - More empowering

# Using a strengths-based approach is not:

- **Toxic positivity:** Pressure to minimize reality and be unrealistically optimistic regardless of the situation.
- Inspiration porn: Viewing people with disabilities as "inspiring" just for doing everyday things.

#### Respondents



Mobility disability: 55%



Chronic illness: 30%



Hearing disability: 12%



Neurodivergent: 7%



Mental illness: 7%



Visual disability: 5%



Neurological or brain injury: 5%

#### Most common styles of birding



"Some people notice positives to having different abilities and experiences than others. For example, if they have to walk more slowly than others, they may see birds that others have rushed past and missed. Please tell us about any positives you've noticed because of your differences to other birders."





### Of respondents (n=87) reported positives to birding differently to others

### **Notices more details**

(31 respondents)



"Because I don't hear well, I've become a much better visual birder. I am more prone to noticing visual cues of a bird's presence – habitat, nest types, material they might use, food sources, etc than some of my birding friends with good hearing."

"My hearing is extremely sensitive. I can pick up and identify birds by sounds most people don't seem to hear. I'm especially good at picking up hummingbird buzzing."



### **Notices more birds**

(22 respondents)

"Having to stop and take breaks means I spend time settled down and catch more birds."

## Adapting birding style/s

(19 respondents)

"My chronic illness has taught me to be very patient and remain still and quiet for longer periods of time."

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## **Interpersonal connection**

(11 respondents)

"I get to interact with usually really enjoyable people as I ask for help with an ID if my brain fog is acting up."



## Gratitude for birding

(7 respondents)

"Being grateful for ANY birds I see, even very common ones, since I can't get out to see them much."



## Adaptive equipment as a facilitator

(6 respondents)

"My power [wheel]chair has a very long range so I can bird for a very long time without getting fatigued!" "Sitting in a chair with a neck rest, I can look up into trees a bit easier than most people standing or walking."

## Health and wellness benefits

(2 respondents)

"My disability is what inspired me to start birding, because it is a quiet and slow task. I find them [birds] joyful and can forget about my grief over my illness."



### Takeaways

- Reframe disability using a strengths-based approach.
   → What might a participant gain from wildlife viewing?
- Offer programs that support various styles of wildlife viewing.
  - Allow participants to choose what works for them.

Barriers to wildlife viewing with a disability Wildlife viewers with accessibility challenges (n= 1,556) were <u>more limited</u>

by all surveyed barriers.

#### **Most limiting barriers**







Distance to viewing locations (76%) Own or other's accessibility challenges (76%)

Cost (70%)

# Wildlife viewers with accessibility challenges were more limited by a lack of:

- Wildlife viewing skills
- Wildlife viewing equipment
- Transportation to wildlife viewing locations
- People who support viewing
- People to go viewing with
- Organized viewing opportunities
- Free time
- Facilities at wildlife viewing locations

# Wildlife viewers with accessibility challenges were more limited by:

- Accessibility challenges
- Safety concerns
- Not knowing where to go wildlife viewing

### The same sample of birders with disabilities (n= 148) who found positives to birding differently than others were asked more about the barriers they experience while birding.



### **Difficulty navigating the trail** (62%)



"I have a chronic illness that affects how much I can do/how far I can travel and for how long. If the trail is uneven, muddy, in a slope of any sort or does not have places to stop... I consider it inaccessible to me."

# Getting information ahead of time about the trail's accessibility (60%)

"Websites for parks and trails seldom have accessibility information. When I call, often the person gives poor or wrong information." "Limited information about trail accessibility causes me to keep returning to tried and true trails and avoid exploring new sites."

# **Accessing the trailhead (including parking availability)** (48%)

"Sometimes parking is strictly for cars and not for wheelchair vans with ramps. I've also been to places that are completely doable for my chair but the parking lot has one step up to the boardwalk entrance and therefore I'm cut off from the whole preserve!"



#### Access to bathrooms (48%)

"Everyone needs to pee, including people who use wheelchairs." "If I don't have bathroom access, I have to limit liquid intake and risk dehydration, or more likely, not go at all."

#### Access to regular rest stops (like benches) (47%)

"It's important for there to be benches, and for their locations to be clear, so we can plan our energy expenditure and breaks." "There are rarely benches to sit, so I have to choose to cut my trip short or injure myself by continuing."

Supporting inclusive wildlife viewing

#### Facilitators to wildlife viewing







Access to more places to view wildlife

(41% of wildlife viewers accessibility challenges)

More info about wildlife in state

(40% of wildlife viewers accessibility challenges)

More info about where to see wildlife

(37% of wildlife viewers accessibility challenges)

#### Facilitators to wildlife viewing



\* p < .05

#### Facilitators to wildlife viewing



\* p < .05

### The same sample of birders with disabilities (n= 148) who found positives to birding differently than others were asked about the factors that impact their choice to go birding.



# I can access information about the trail in advance (72%)

"If it is listed as accessible what does that mean? Are trails paved or what material is used for them. Are bathrooms available and WC [wheelchair] accessible?" "It's fabulous when centers post photos of their parking areas, buildings, trailheads, etc., which can offer a lot of valuable info."



## I am not singled out because of my abilities or differences (unless there is a good reason for it) (39%)



"I find that people generally don't understand the challenges that I face, even if they think they do. That makes it uncomfortable when I'm singled out knowing that the person doing it likely doesn't understand and will make assumptions based on that false understanding."

## I am part of a group that includes other people who also have accessibility challenges (30%)

"Being in a group with others who share my condition or other challenges would be helpful because I feel we'd have a better understanding of each other's needs and how to help."

#### **Ongoing research project: Findings this winter**



## Thank you for joining us today!



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Want more information? viewing.fishwild.vt.edu/inclusion

Questions?

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