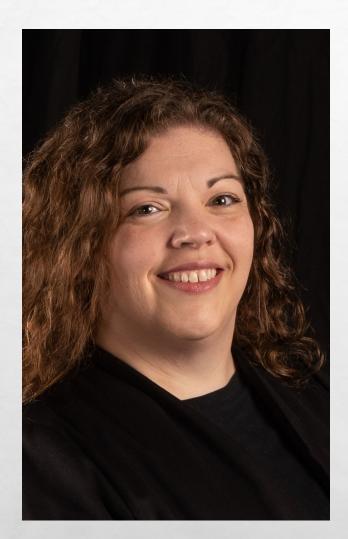
n on the Joke: Do Dogs Laugh? Shelly Volsche, PhD, CPDT-KA

APA Webinar | Dec. 14, 2023

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Who am I?

Assistant Professor,

Department of Animal and Food Science University of Wisconsin – River Falls Companion Animal Science/Management

Applied Ethology and Anthrozoologist Prior Experience as a Professional Dog Trainer Dog "Mom"



Do Dogs Laugh?

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That is the question...

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Tinbergen's Four Questions

Mechanism	Ontogeny	
Function	Phylogeny	

Defining Laughter

mechanism – diaphragm contracts to create bursts of exhalation that are associated with arousal.

function – a signal that induces or continues a play state while signaling a lack of malintent.

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Patricia Simonet

play pant – domain-specific vocalization in dog-dog play. "forced, breathy exhalation" \rightarrow diaphragm/mechanism



Patricia Simonet

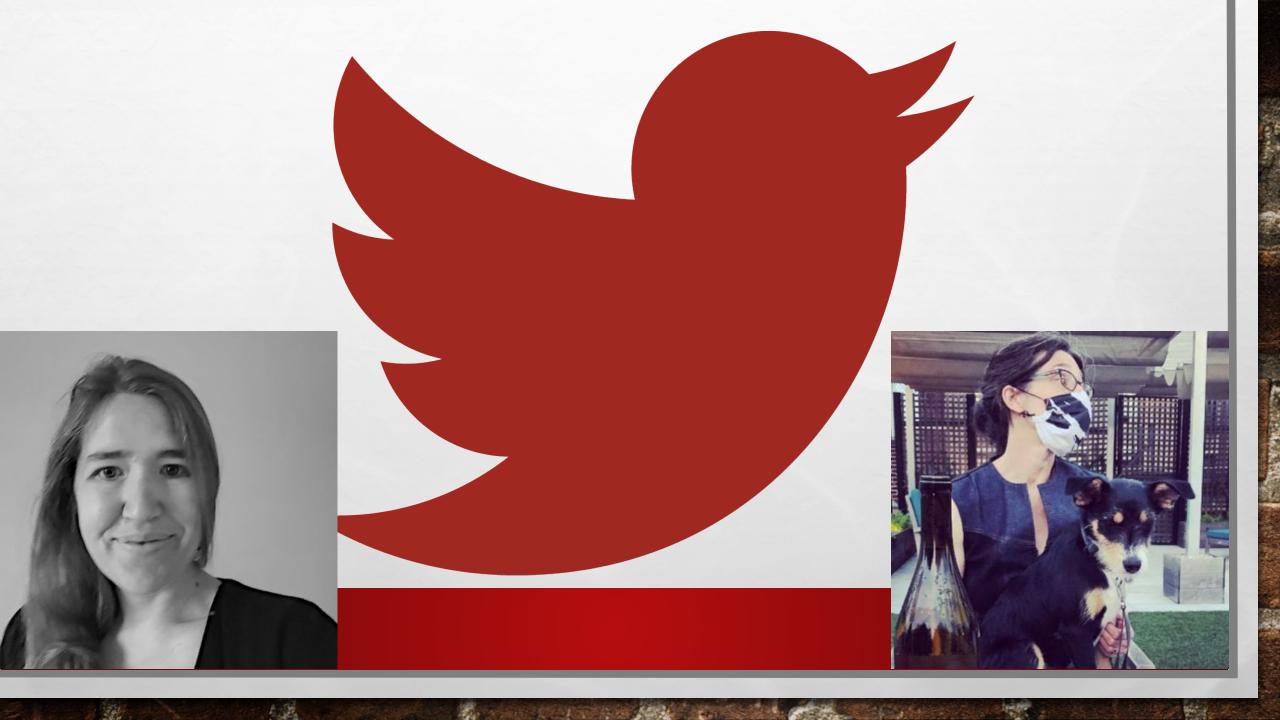
Simonet, P.R., Murphy, M., & Lance, A. (2001). <u>Laughing dog: vocalizations of domestic</u> <u>dogs during play encounters</u>. Paper presented at the Animal Behavior Society Conference in Corvallis, OR.

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Participants

Humans

• 18+ years of age

living with dogs for at least one year

Dogs

• not people reactive

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- likes to play
- not in estrous

N = 16 *II* = 14

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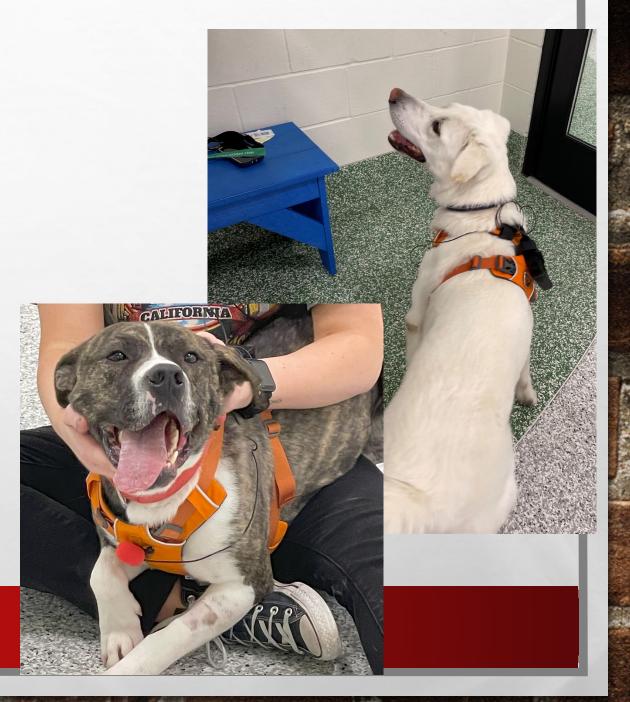
Methods

Audio and Video Recordings

- Human wireless mic pack
- Dogs harness w/wireless mic pack

Three interactions:

- Training
- Play
- Timed, shared rest



Results

Nearly all play pants occurred during play

- One-Way ANOVA
- F(2, 39) = 5.897, p = 0.006

Near perfect correlation/play pant

 \rightarrow play behaviors, activities, or direct contact between person + dog.

- Two-tailed Pearson's rho
- $r_s(42) = 0.998, p < 0.001$

Toldi: Play Pant

1:54.6

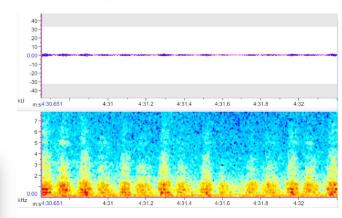
Cambridge Philosophical Society

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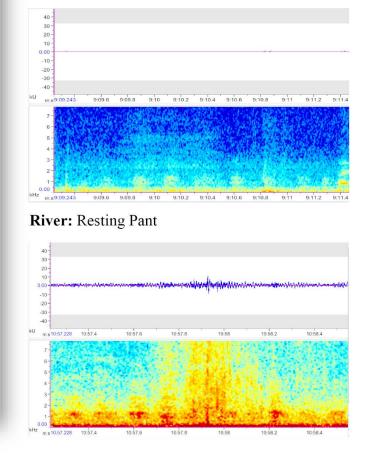
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421

Toldi: Resting Pant



Tula: Resting Pant



Results

BIOLOGICAL REVIEWS

Biol. Rev. (2023), **98**, pp. 421–433. doi: 10.1111/brv.12912

Centring individual animals to improve research and citation practices

Shelly Volsche¹, Holly Root-Gutteridge^{2,*}, Anna T. Korzeniowska^{3,4} and Alexandra Horowitz⁵

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ABSTRACT

Modern behavioural scientists have come to acknowledge that individual animals may respond differently to the same stimuli and that the quality of welfare and lived experience can affect behavioural responses. However, much of the foundational research in behavioural science lacked awareness of the effect of both welfare and individuality on data, bringing their results into question. This oversight is rarely addressed when citing seminal works as their findings are considered





Shelter Dogs

Humans

- Research assistants
 - \rightarrow primarily undergrads
- Unfamiliar to dog

Dogs

- not people reactive
- 6+ mos of age
- Min. 7 days post-op



Shelter Dogs

- Data collection is paused \rightarrow harnesses didn't work for many
- Changes planned in recording \rightarrow no harness, different mic
- Preliminary supports findings in the bonded partners

 → though certainly less frequent
- Seeking funding for ManyDogs-esque project

Do Dogs Laugh?

- Data says \rightarrow they play pant \rightarrow mechanism
- Observation says → humans can induce the pant with our behavior
 → function (? Maybe)
- The play pant definitely suggests they are enjoying themselves

Play Pant in Clinic

- Animal Assisted Play Therapy
 - \rightarrow One more indication of whether dog is enjoying the interaction
 - \rightarrow Can possibly induce a more positive affect in humans
 - \rightarrow Marker of welfare?
- If audio playback helps calm dogs, does it help us?
 → Is this the next "Zen"?

Play Pant in Broader AAI

- Teach subtle social attention in children?
- Play with courthouse dogs?
- Psychiatric service dogs? Is this part of why they help?
- The list of questions goes on...

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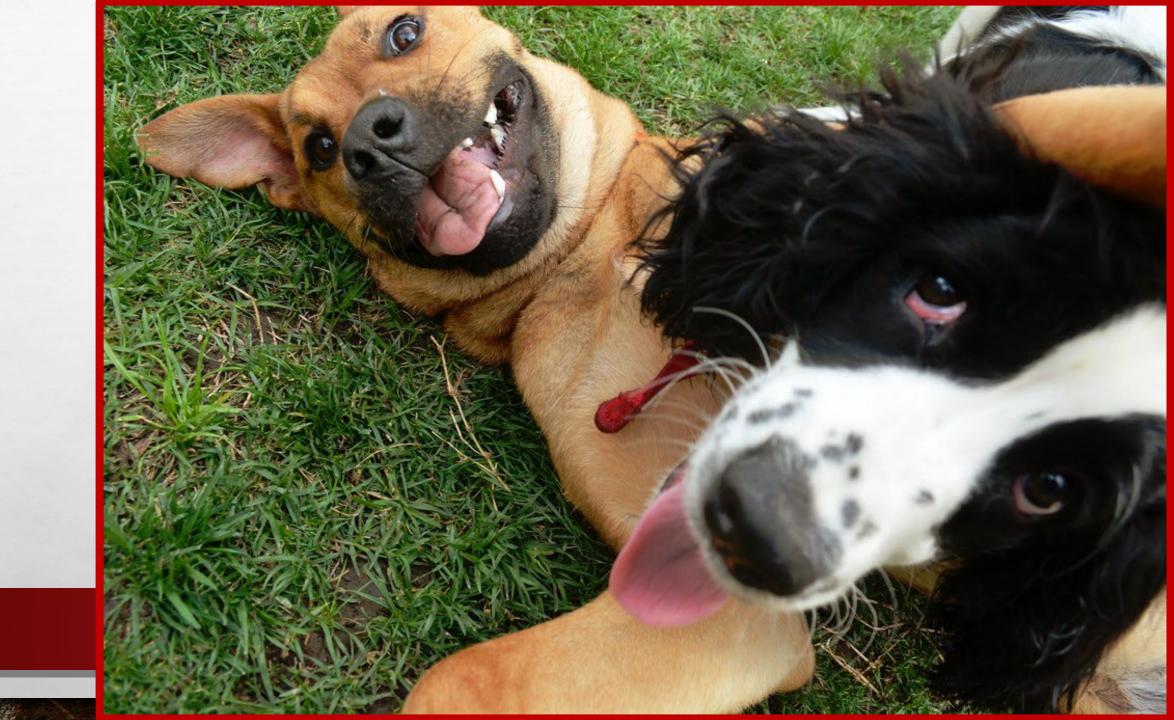
Play Pant in Broader AAI

Dogs are individuals, like us!

Be sure you have someone suited to the job.

Learn the signals – play pant is just one of many!





Thank you!

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1 This has been

• Questions?

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