# **Developing the Animacy Beliefs Scale:** A Counter to Western Environmental Worldview Rosemary Aviste, M.S., Janet K. Swim, Ph.D., & Jamie DeCoster, Ph.D.

# **INSERT A PICTURE HERE?**

# INTRODUCTION

We explore new ways of knowing nature, beyond Western philosophies, by studying an alternative philosophy of animacy, which is demonstrated with a newly developed measure of animacy beliefs.

Animacy: the belief and acknowledgment of more-than-human beings (e.g., animals, plants, land, water, earth, sky) as volitional and communicating subjects who exist in an equal and reciprocal relationship with humans (Barrett, 2011; Barrett & Wuetherick, 2012).

### STUDIES 1 & 2

- Created 48 scale items and validated with experts (S1)
- Confirmed a 4-factor structure with student respondents (animals, plants, land, water) and reduced scale to 28 items (S2)

### STUDY 3

• Sample: N = 654: 405 non-animists, 249 animists recruited on Prolific to replicate Study 2 and test the validity of the measure.

# **BROADER IMPACTS**

Theoretical: Provides a new theoretical lens and measurement tool to further theory on perceptions of and relationships with nature

Practical: Provides a measurement tool for practitioners to use in fieldwork (e.g., outdoor education)

# animate beings?

## . The 4-factor model remains the best fitting model and has strong internal reliability

Subscale Reliabilities

- Animal Subscale:  $\alpha$  = .88
- Plant Subscale:  $\alpha$  = .92
- Land Subscale:  $\alpha$  = .93
- Water Subscale:  $\alpha$  = .93

### Scale Items

- . Entities\* have a spirit.
- 2. Entities have a sacred energy.
- 3. Humans can learn a lot from the wisdom of entities.
- 4. Entities can consciously give us gifts, just like a friend would.
- 5. Entities should be treated as living beings rather than objects.
- 6. Each *entity* is an important individual.
- 7. Entities play an intentional role in creating the natural world.

\*In each subscale "entity" is replaced with animals, plants, land, or water

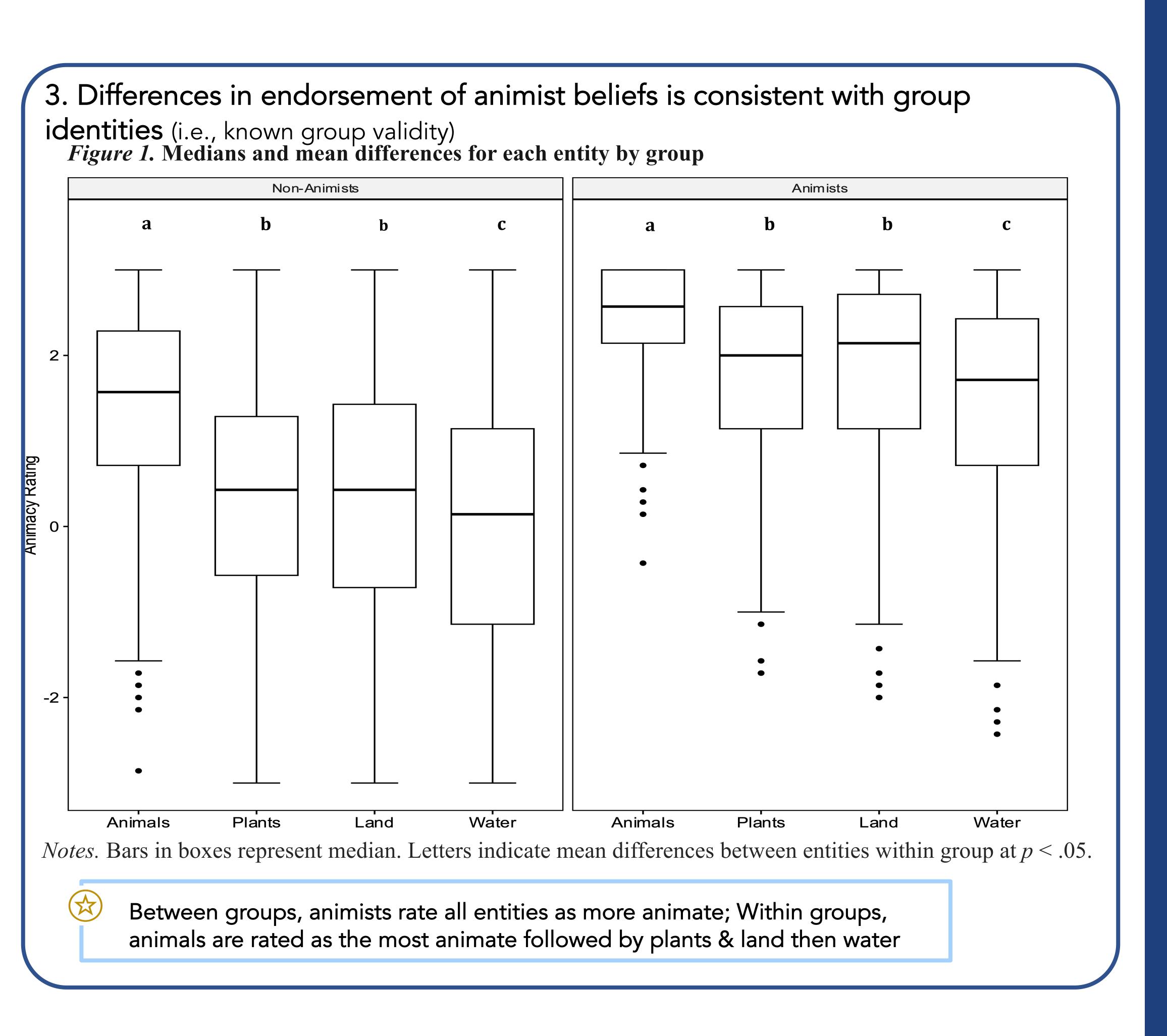
-3 "Strongly disagree" to 3 "Strongly agree"

2. The scale measures the same construct for non-animists and animists so it can be used for both groups (i.e., known group validity)

Configural, metric, and scalar invariance was met: factor loadings and beta coefficients were the same for non-animist and animist.



Do you believe that animals, plants, land, and water are



3. The scale associated with existing measures in expected ways. (i.e., predictive validity)

The more a person who endorse Animacy Beliefs, the more likely they also 1) endorse anthropocentric views of nature, r = .57, .65, .62, and .64. 2) report strong relationships with nature, r = .73, .75, .72, .703) feel interdependent with nature, r = .64, .64, .60, .594) Feel grief about the diminished state of nature, r = .49, .48, .43

Correlations are for animist beliefs about animals, plants, land and water, respectively)