#### Western University

#### Scholarship@Western

Community, Equity, Gender

Western Heads East

11-15-2017

## Ecotourists Don't Bug Wildlife: Good News for a Premier African Protected Area

Badru Mugerwa

Michael Clinchy

**David Macdonald** 

Liana Y. Zanette

Follow this and additional works at: https://ir.lib.uwo.ca/wheceg

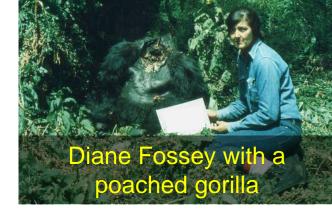
# ECOTOURISTS DON'T BUG WILDLIFE: GOOD NEWS FOR A PREMIER AFRICAN PROTECTED AREA

Badru Mugerwa<sup>1,2,3\*</sup>, Michael Clinchy<sup>1</sup>, David Macdonald<sup>2</sup>, Liana Y. Zanette<sup>1</sup>

## Background: Does Wildlife Perceive All Humans as Predators?

- Fear of predators is a bad thing as it can dramatically reduce the reproduction and survival of wildlife, and cause cascading effects through ecosystems and down food webs (Zanette et al. 2011, **Science** 334:1398).
- Humans are a "super-predator" who kills wildlife disproportionately (Darimont et al. 2015, Science 349: 858).
- Ecotourists are assumed to be benign, but can have potentially averse effects if wildlife perceive ecotourists as predators.



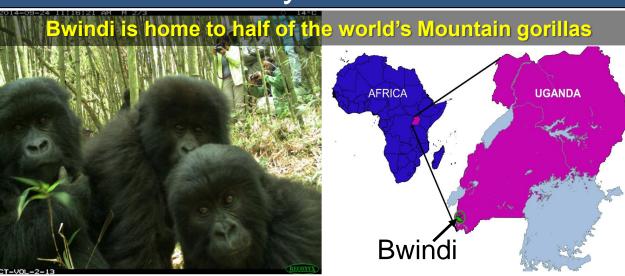


Ecotourists add value to wildlife

Poachers reduce value to wildlife

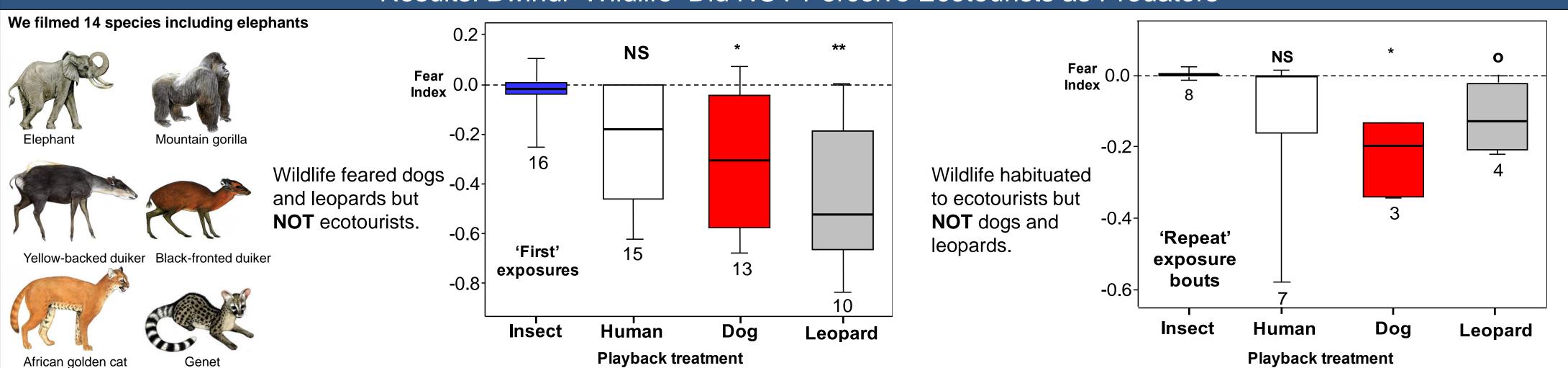
### Methods: Filmed Reactions of Wildlife to Audio Playbacks

- Animals know their enemies and flee to sounds of their predators.
- We compared reactions of wildlife to known predators (poaching dogs and leopards), humans and insects.
- We conducted this research in Uganda's Bwindi Impenetrable National Park (Bwindi) a premier African protected area for mountain gorilla ecotourism and main source of Uganda's ecotourism revenue.





#### Results: Bwindi Wildlife Did NOT Perceive Ecotourists as Predators



## Conclusion: No Ecological Downsides to Ecotourism Revenue

- Bwindi wildlife did not perceive ecotourists as a threat, which is good news for gorilla ecotourism revenue and the Uganda Wildlife Authority.
- Bwindi wildlife perceive dogs as a threat consistent with their use for poaching. The fear of dogs is bad for wildlife and wildlife management.
- Bwindi wildlife most feared their native predator, the leopard even though its been extinct in the park for over 40 years.

#### Affiliations & Acknowledgements

<sup>1</sup> Department of Biology, Western University, <sup>2</sup> Wildlife Conservation Research Unit (WildCRU), University of Oxford, <sup>3</sup> Institute of Tropical Forest Conservation, Mbarara University of Science and Technology









