



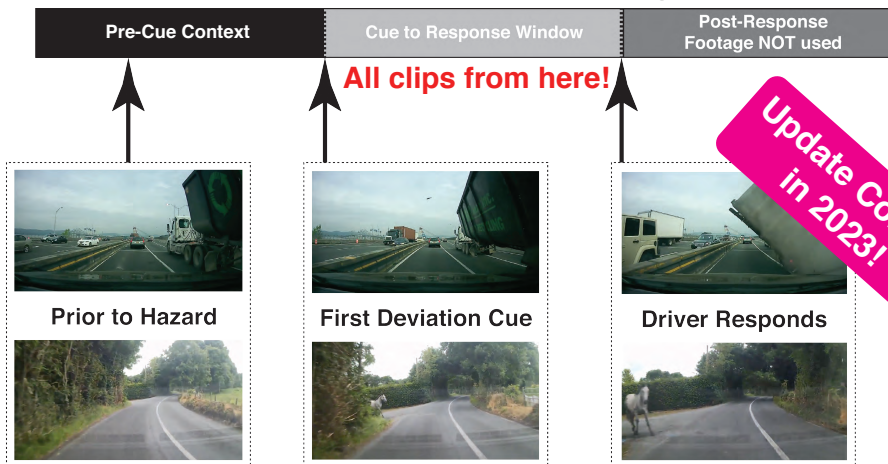
Detecting hazards is a key visual task in driving (Wolfe et al., 2019, JEP:General), but **when do we know where hazards are?** Studying this in the lab (or online) is safer, but does spatial scale impact our results?

## Road Hazard Stimuli (Wolfe 2019)

503 dashcam videos (253 hazardous events, 250 matched controls)

Available on OSF: <https://osf.io/uq6pc/>

Temporal Annotation: When did things happen?



## Three tasks, two spatial scales

Tasks and Scale Conditions are Blocked and Randomized

n = 24

### Detection Task

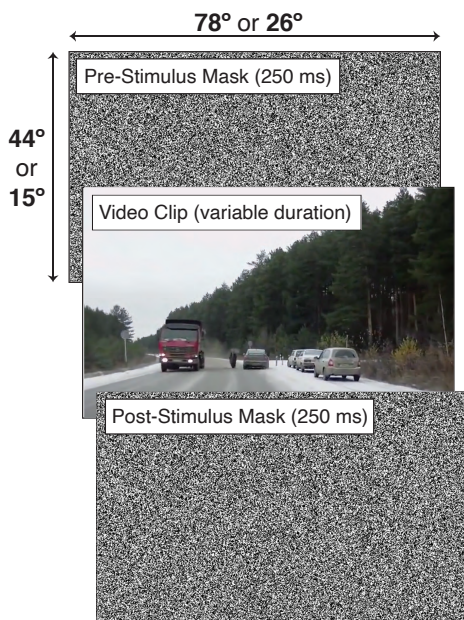
Variable Duration  
Staircased (33-1000 ms)

### Evasion Task

Variable Duration  
Staircased (33-1000 ms)

### Localization Task

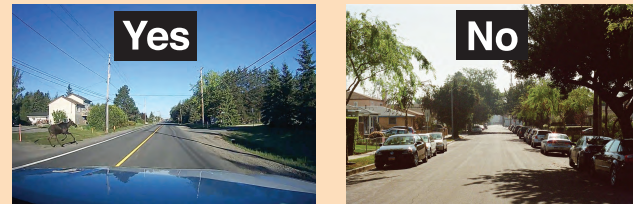
Fixed Duration  
(33, 66, 100, 166, 233, 333, 466, 600 ms)



Large: 78° x 44°; Small: 26° x 15°

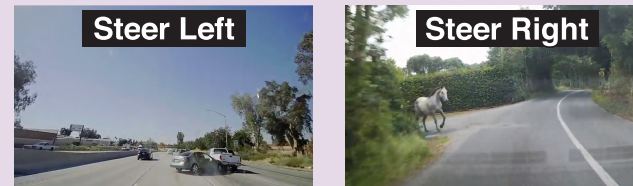
## Detection Task

Was there a hazard present that you would have needed to respond to?



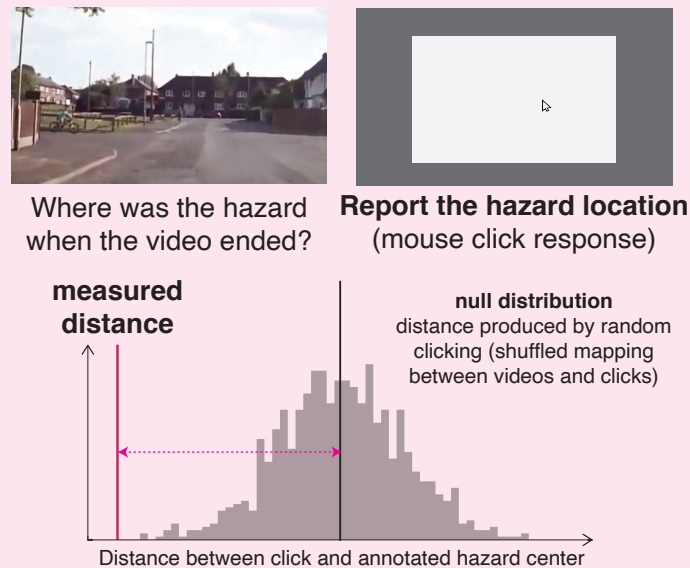
## Evasion Task

Would you steer left or right to evade the hazard that was present?

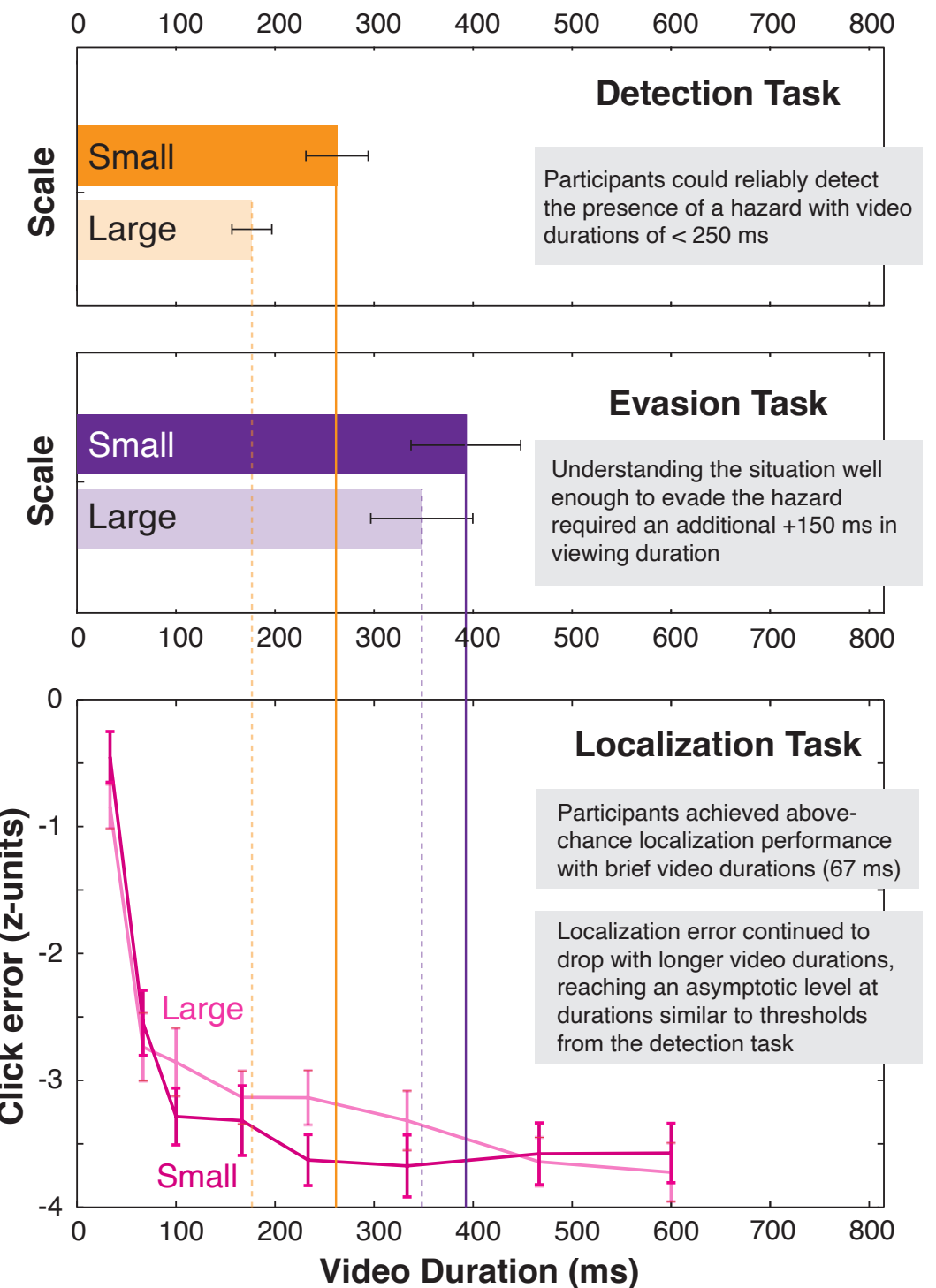


## Localization Task

Where did you perceive the hazard?



## Duration thresholds for 80% accuracy (ms)



Duration thresholds are comparable across different spatial scales and localization builds on the same timescale as scene understanding