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## The Domestic Dogs' (*Canis Familiaris*) Understanding of Intentional and Goal Oriented Action

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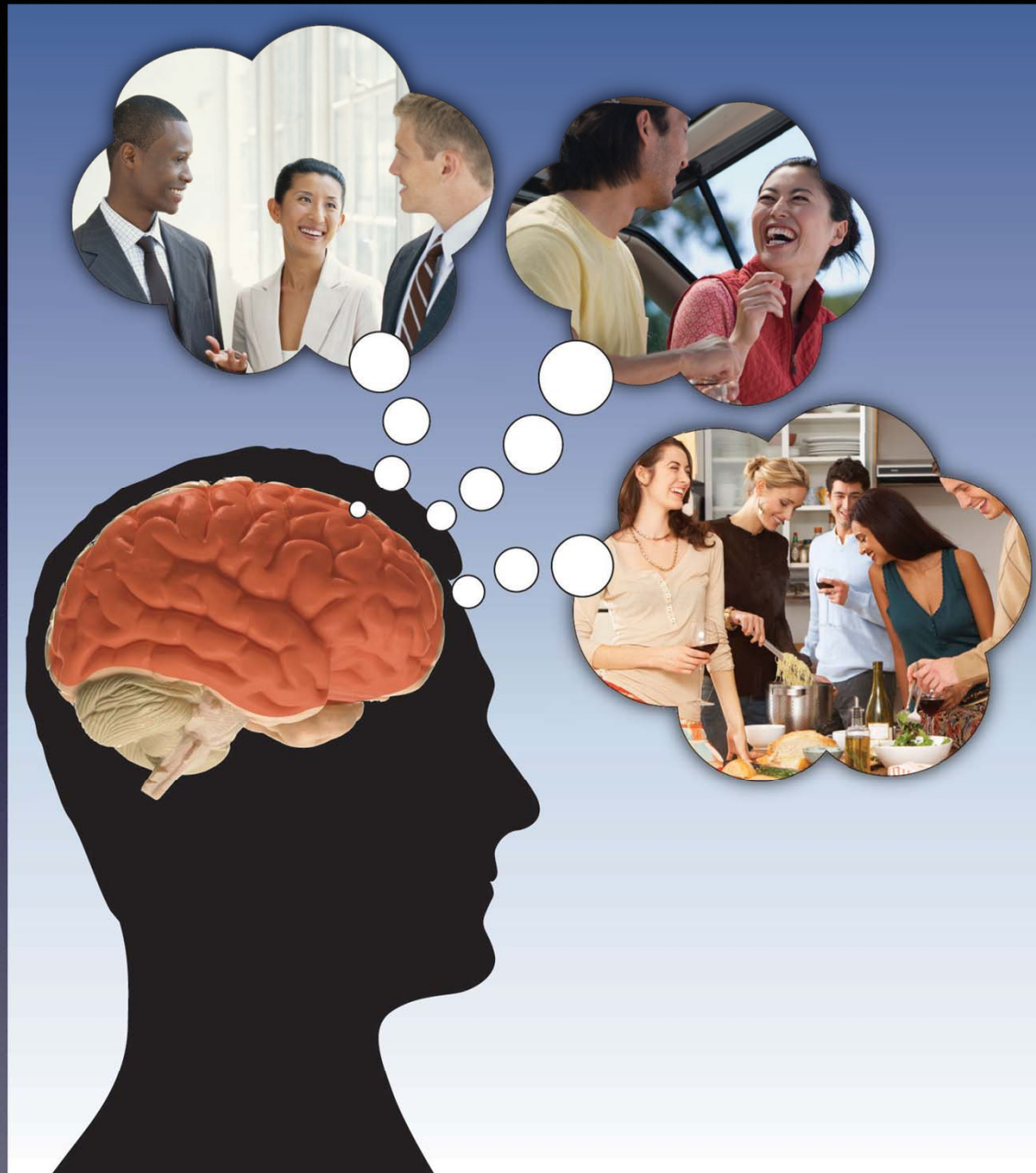
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# The Domestic Dogs' (*Canis lupis familiaris*) Understanding of Intentional and Goal Oriented Action

By: KiriLi Stauch, Stephanie AuBuchon, & Ellen Furlong



Picture: [http://catalog.flatworldknowledge.com/bookhub/2105?e=stangorsocial\\_1.0-ch01\\_s02](http://catalog.flatworldknowledge.com/bookhub/2105?e=stangorsocial_1.0-ch01_s02)

# Introduction



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Picture: [http://www.forbes.com/fdc/welcome\\_mjx.shtml](http://www.forbes.com/fdc/welcome_mjx.shtml)

# Introduction

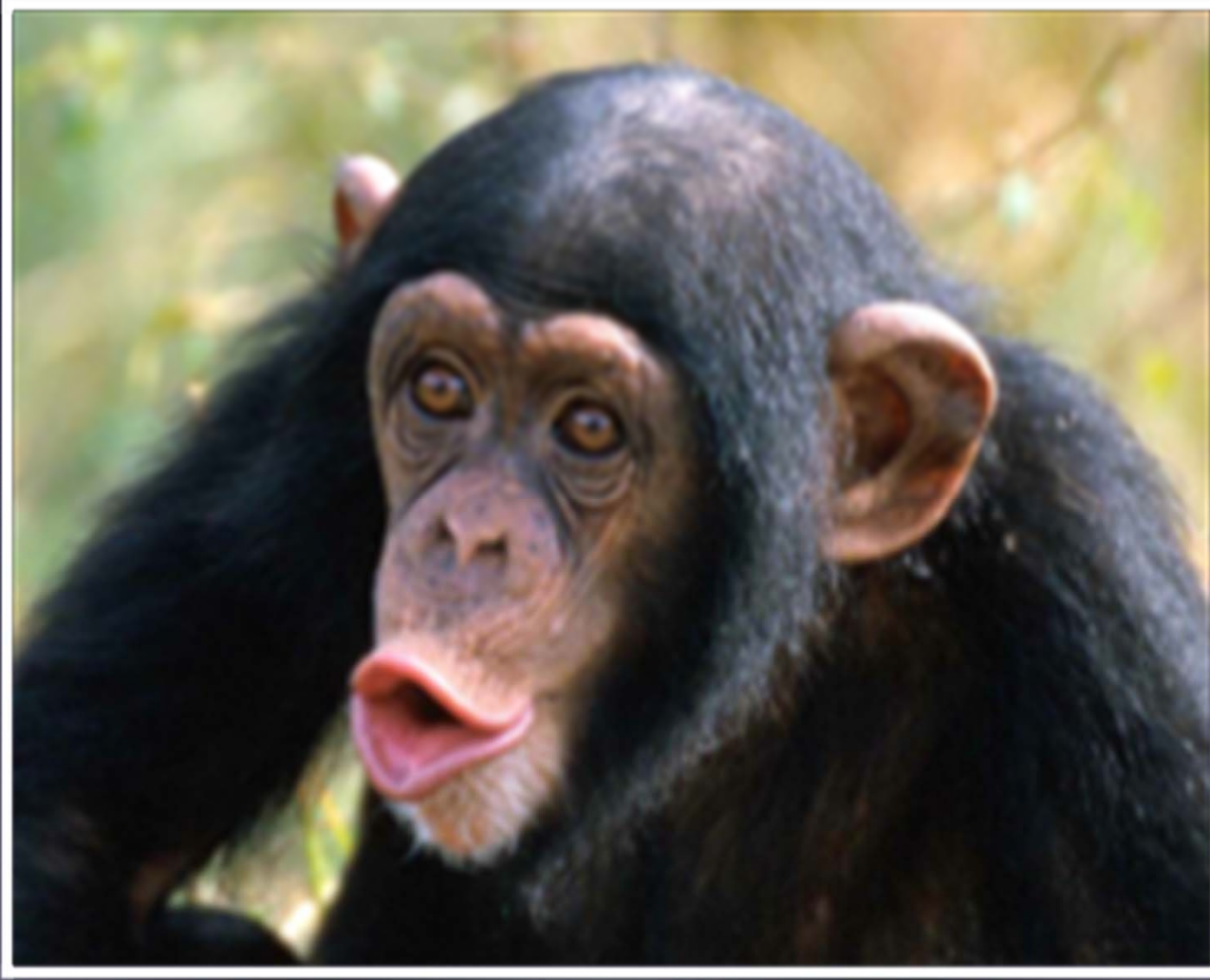


# Human Infants' Understanding of Goal Oriented Action



Woodward, 1998

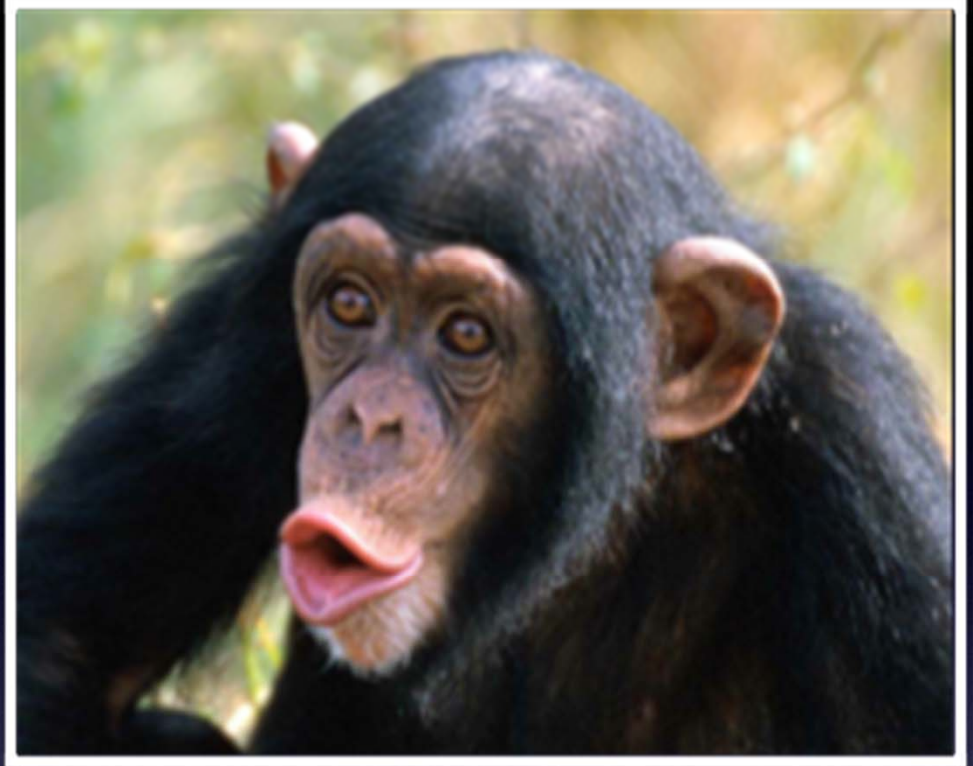
# Non-human Primates



# Chimpanzees Unwilling versus Unable



Picture: Call, Hare, Carpenter, & Tomasello, 2004



# What about dogs?



# Study 1: Intentions

	Tease Duo	Refuse Trio
Unwilling Trials	Unwilling- offer/pullback	Unwilling-box
Unable Trials	Unable-box	Unable-distracted
Unable Trials		Unable-drop

# Coding

Position 1



Position 2



Position 3



# Rowdie Refuse: Unable Drop

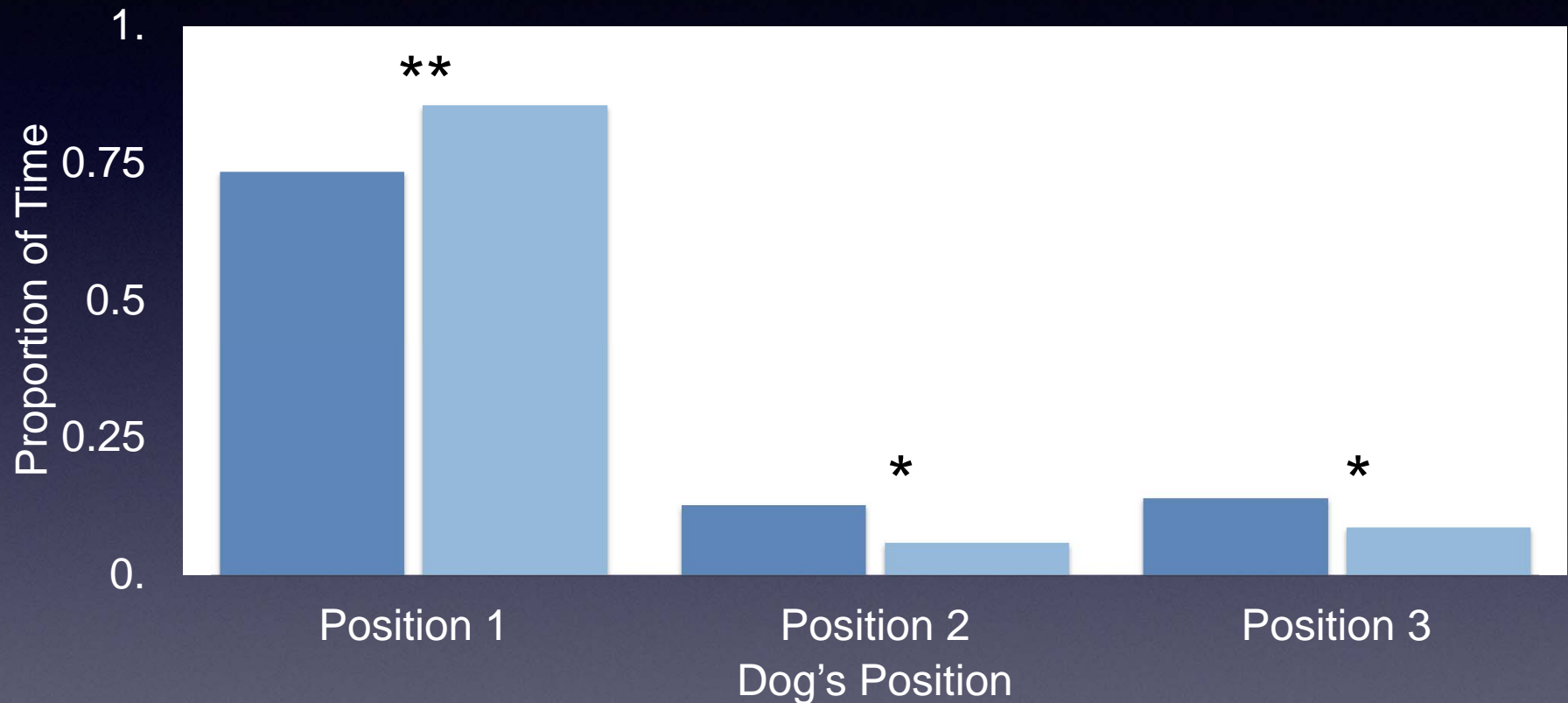


# Rowdie Tease: Unwilling- offer/pull back



# Study 1 Results

The Proportion of Time Domestic Dogs Spent in Three Positions



■ Unwilling

■ Unable

\*\* Significant Difference

\* Marginal Difference

Repeated Measure ANOVA ( $p < .05$ )

# Study 2: Goals



Example of session: Same Side Condition

# Brennan Same Side Trial

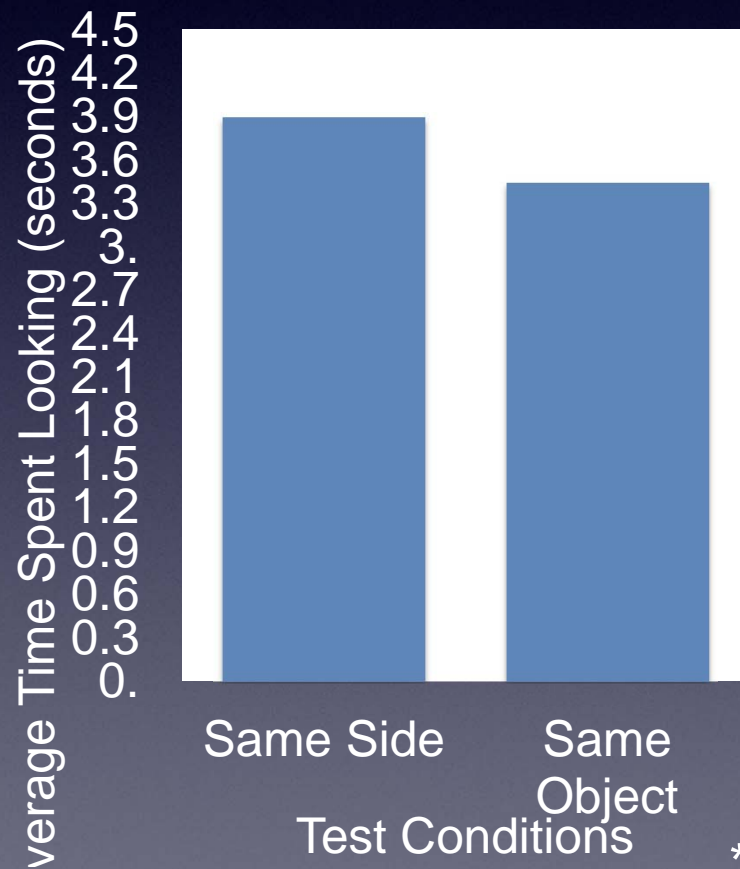


# Brennan Same Object Trial

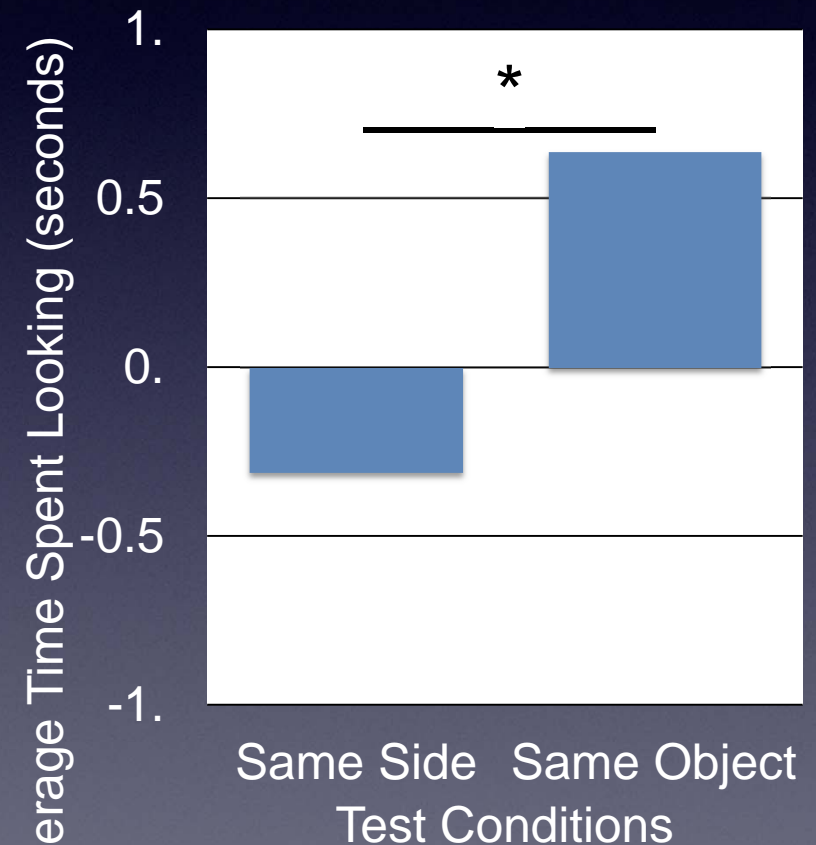


# Study 2 Results

The Average Amount of  
Time (seconds)  
Domestic Dogs Looked  
After the Event



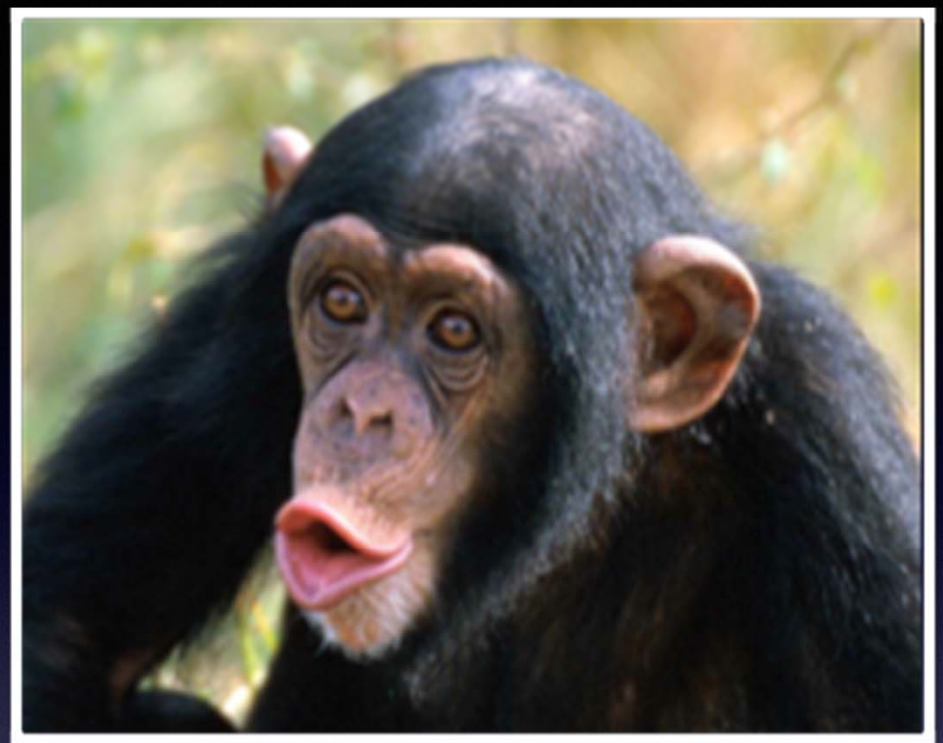
Average Familiarization  
Looking Time (seconds)  
Minus Test Looking Time  
(seconds)



\* Marginal Difference  
One-tailed t-test ( $p < .05$ )

# Conclusions/Implications





# Future Directions



# Implications





**IWU**  
**Dog**  
**Scientists**

# Acknowledgments

collecting data for *Study 1*. We would like to thank the dog owners for allowing

# References

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