

Children's Expectations for Ritual Performance and Cooperation

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Background

- Rituals are a pervasive feature of human social groups, ranging from elaborate religious ceremonies to rites of passage, to blowing out candles on a birthday cake.
- Rituals are prescribed by social norms, causally opaque, deliberate and symbolic actions.¹⁻⁴
- Rituals serve proposed functions to identify group members, demonstrate group commitment, facilitate cooperation, and maintain group cohesion.⁵⁻⁶
- Though ritual participation increases children's affiliation with in-group members⁷, there is little work examining the impact of ritual on children's group cognition and behavior.

Research Questions

- Do children use ritual performance as a cue to cooperativeness?**
 - Do they expect someone who performs a ritual well to be a better group member?
 - Share resources with the group
 - Be included by the group
 - Do they evaluate someone who performs a ritual well more positively and prefer to interact with them?
 - Attribute more positive behaviors
 - Attribute less negative behaviors
 - Preferable play partner

References

¹ Hove & Risen, 2009. *Social Cognition*. ² Kirschner & Tomasello, 2010. *Evolution & Human Behavior*. ³ Legare & Souza, 2012. *Cognition*. ⁴ Sorenson, 2007. *A Cognitive Theory of Magic*. ⁵ Legare & Watson-Jones, 2016. *The Handbook of Evolutionary Psychology*. ⁶ Watson-Jones & Legare, 2016. *Current Directions in Psychological Science*. ⁷ Wen, Herrmann, & Legare, 2015. *Evolution & Human Behavior*.

Acknowledgments

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Method

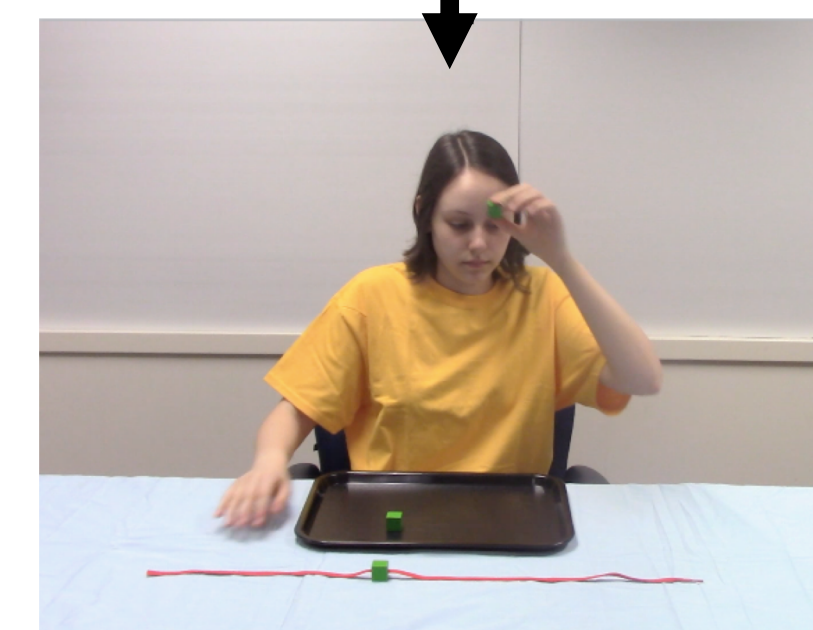
- Participants: $N = 75$ 5-9-year-olds

Group Introduction



Introduced to "Ferpies" who wear "tomas"

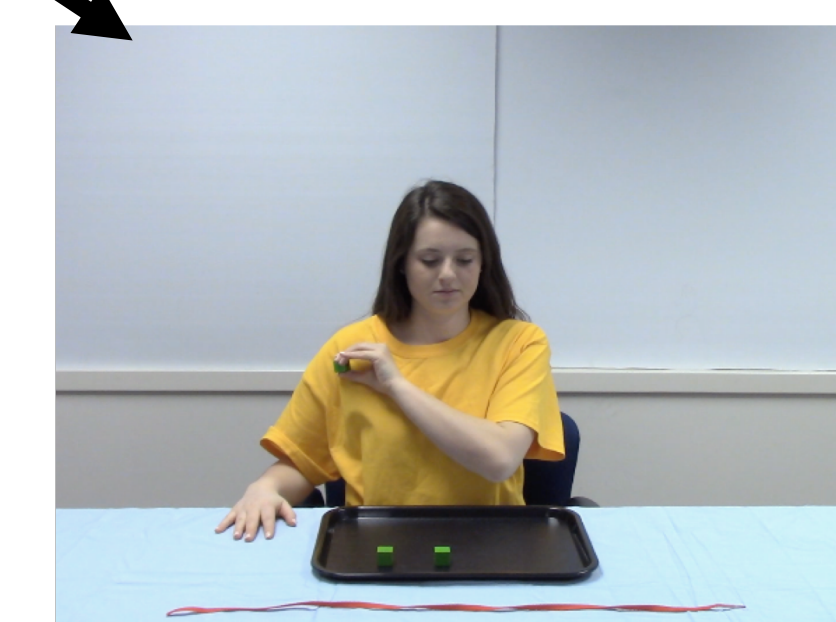
Ritual Expert



"This is Elizabeth. She's a Ferpie. She's going to show you how to make a toma."



High Competency



Low Competency

Forced Choice Task

Measure	Example
1. Expectations for generosity	Who will share a snack with another Ferpie?
2. Expectations for inclusion	If the Ferpies were making a sports team, who would they pick to be on their team?
3. Preferred play partner	Who would you rather play a game with?
4. Positive attributions	Who made cookies for all of their friends?
5. Negative attributions	Who made a mess and didn't clean up?

Resource Allocation Task

Does Sally give none, some, or all of her cookies to the Ferpie cookie sale?

Olivia

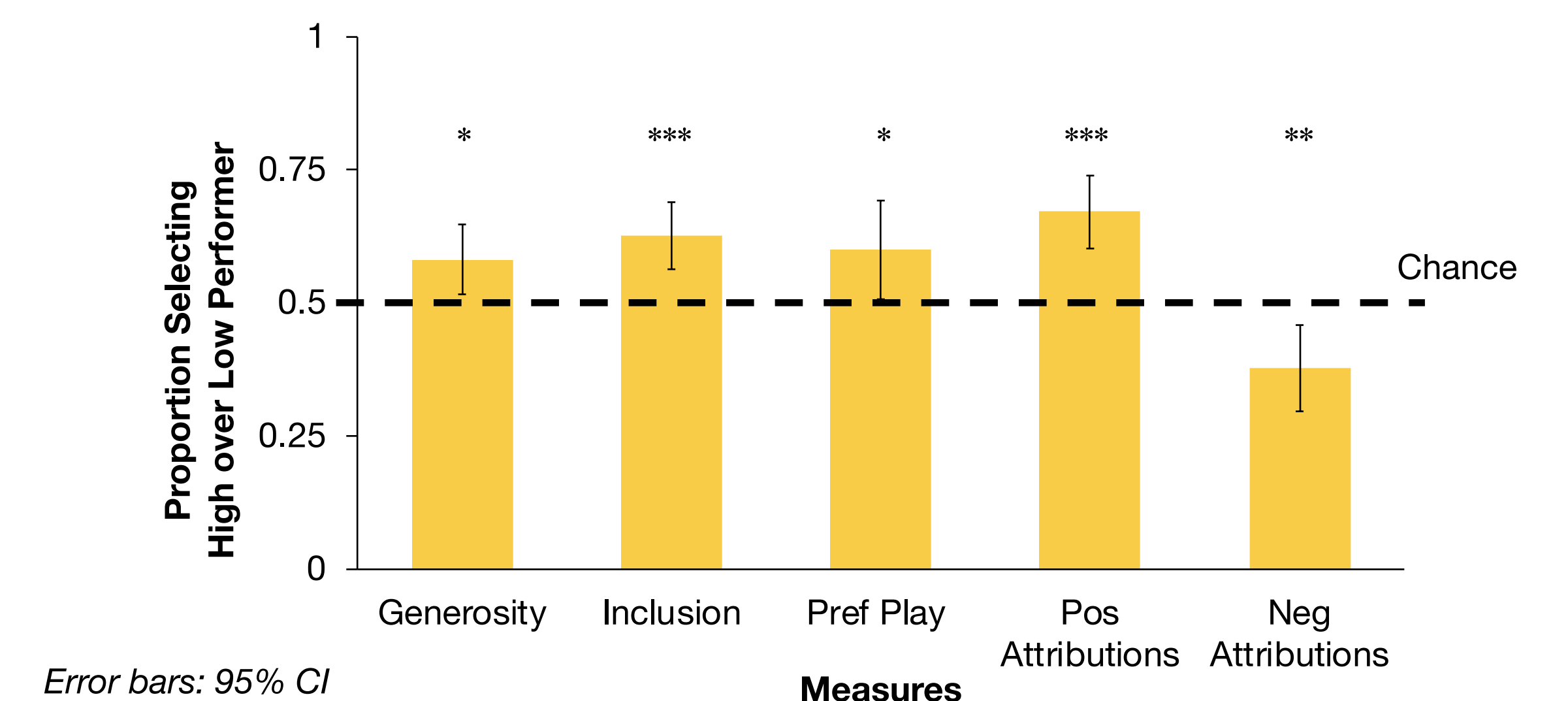


Sally



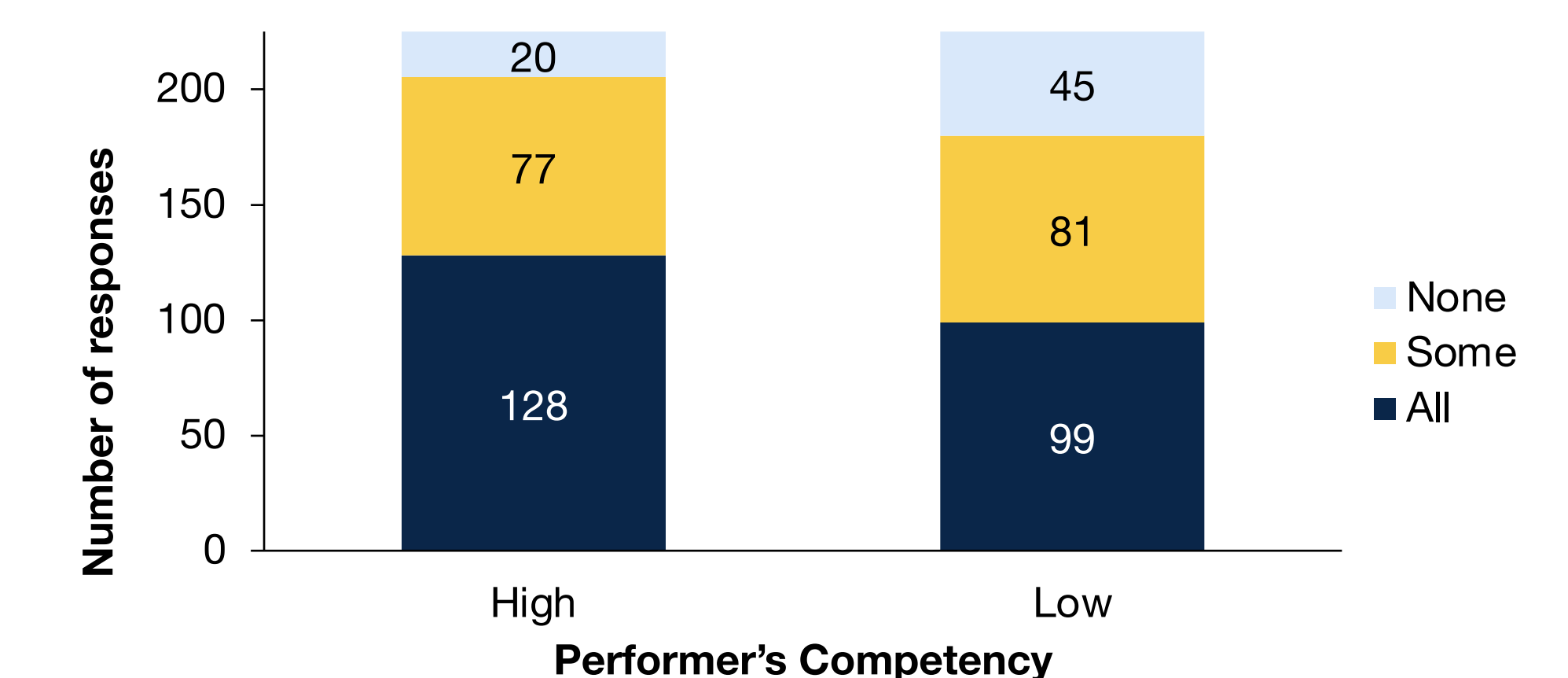
Results

Forced Choice Task



- Children's evaluation of the high competency performer:
 - Will **share resources** with the group. $t(74)=2.50, p = .015, d = 0.29$
 - Will be **included** by the group. $t(74)=4.01, p < .001, d = 0.46$
 - Is a **preferable** play partner. $t(74)=2.15, p = .035, d = 0.25$
 - More **positive attributions**. $t(74)=4.98, p < .001, d = 0.57$
 - Fewer **negative attributions**. $t(74)=-3.00, p = .004, d = 0.35$

Resource Allocation Task



- Children expect the high competency performer to be **more generous** than low competency performers. $\chi^2(2, N=75)=13.42, p=.001$
- Standardized residuals show children expected the high competency performer to **give all of their resources** (1.36) and less likely to **give none of their resources** (-2.19).

Discussion

- Children use ritual performance as a marker of cooperation.
- They expect someone who performs a ritual well to be a better group member, evaluate them more positively, and prefer to interact with them.
- In an ongoing study, we test whether children differentiate competency in ritual vs. instrumental learning.