

Success does not imply knowledge: Preschoolers believe that accurate predictions imply knowledge, but accurate observations do not Rosie Aboody^a, Holly Huey^b, & Julian Jara-Ettinger^a ^aYale University, ^bNew York University

Introduction

To effectively learn from others, we must decide who is knowledgeable. Past research suggests that children can solve this problem based on the accuracy of informants' prior testimony (e.g. Pasquini et al, 2007). However, agents can be knowledgeable but incompetent, or ignorant but accurate. How does our understanding of the link between accuracy and knowledge develop?



Observer

What animal is under the cup?



Across three experiments, 4- and 5-year-olds distinguished between knowledge and accuracy. Specifically, while accurate predictions were taken to imply knowledge, accurate observations were not.

Future Directions:

One of our friends peeked under all the cups, but we don't know who!



General Discussion & Conclusion

• In the first three studies, we saw that children understand that accuracy does not always imply knowledge • However, it is also true that *inaccuracy* does not always imply *ignorance*. If an agent is *wrong* (in the right kind of way), will children infer that this agent is actually knowledgeable?



Summary:

- In Study 1, children attributed more knowledge to the predictor, and also thought this knowledge should generalize to the third remaining cup.
- In Study 2, children understood that the predictor was more knowledgeable, but that this prior knowledge *shouldn't* generalize to the cup whose contents were switched out.
- In Study 3, children went beyond reasoning about knowledge explicitly. When the puppets disagreed, children spontaneously endorsed the testimony of the predicting agent.

questions:	
/ho	<u>peeked</u> ?
/ho	knows?

References & Related Work: Einav & Robinson (2011). Psych Science. Pasquini, Corriveau, Koenig & Harris (2007). Dev. Psychology