

UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

What will they choose? Adults' and children's intuitive predictions of others' numerical decisions

Permalink

<https://escholarship.org/uc/item/2qr452zx>

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 44(44)

Authors

Mbarki, Rahma

Kampis, Dora

Wang, Jinjing (Jenny)

Publication Date

2022

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at <https://creativecommons.org/licenses/by/4.0/>

Peer reviewed

What will they choose? Adults' and children's intuitive predictions of others' numerical decisions

Rahma Mbarki

Rutgers University-New Brunswick, New Brunswick, New Jersey, United States

Dora Kampis

University of Copenhagen, Copenhagen, Denmark

Jinjing (Jenny) Wang

Rutgers University - New Brunswick, Piscataway, New Jersey, United States

Abstract

We constantly interpret and predict others' decisions and behaviors when interacting with the world. Do our predictions of others' decisions differ depending on whose behavior we are trying to predict? In four experiments, we probed how adults and children (N = 144, 6- to 8-years old) predict different agents' intuitive numerical decisions. We varied the phylogenetic and ontogenetic history of the agents: an adult, a child, an infant, a chimpanzee, and an ant. We found that both adult and child participants predicted the adult and child agents to reliably choose the larger amount. Both adult and child participants predicted the infant and ant to choose at random. However, while adult participants attribute numerical decisions similar to adults and children to chimpanzees, children seem to think chimpanzees behave similarly to infants and ants. Overall, these results suggest that adults and children share similar intuitions about others' numerical decisions based on agent identity.