

Investigating Individual Differences in Risk-Taking Preferences Among Preschoolers

Introduction

- Although there is a large academic literature on adult and adolescent decision-making, little is known about how decision-making tendencies develop through childhood.
- Few studies have looked at decision-making strategies in preschool-aged children; those that have are often based off of adult tasks which do not take into account the cognitive limitations of young children.
- Past research has shown that children younger than 7 are likely to use a risk-taking strategy during gambling tasks. (Paulsen et al., 2012).
- However, few studies have looked at individual differences in strategies at this age.

Current Study

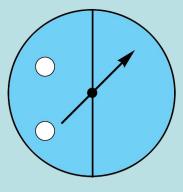
- We created a novel gambling paradigm for preschool aged children in which it took into consideration children cognitive limitations (e.g., difficulties with symbolic representation and object tracking).
- With this data, we used a latent mixture model with Bayesian inference to determine what strategies children were using.

Behavioral lask

Participants: 43, 3-to 5-year-old children from local preschools in Southern California (mean = 54.04 months, range = 38.4 - 76.3 months).

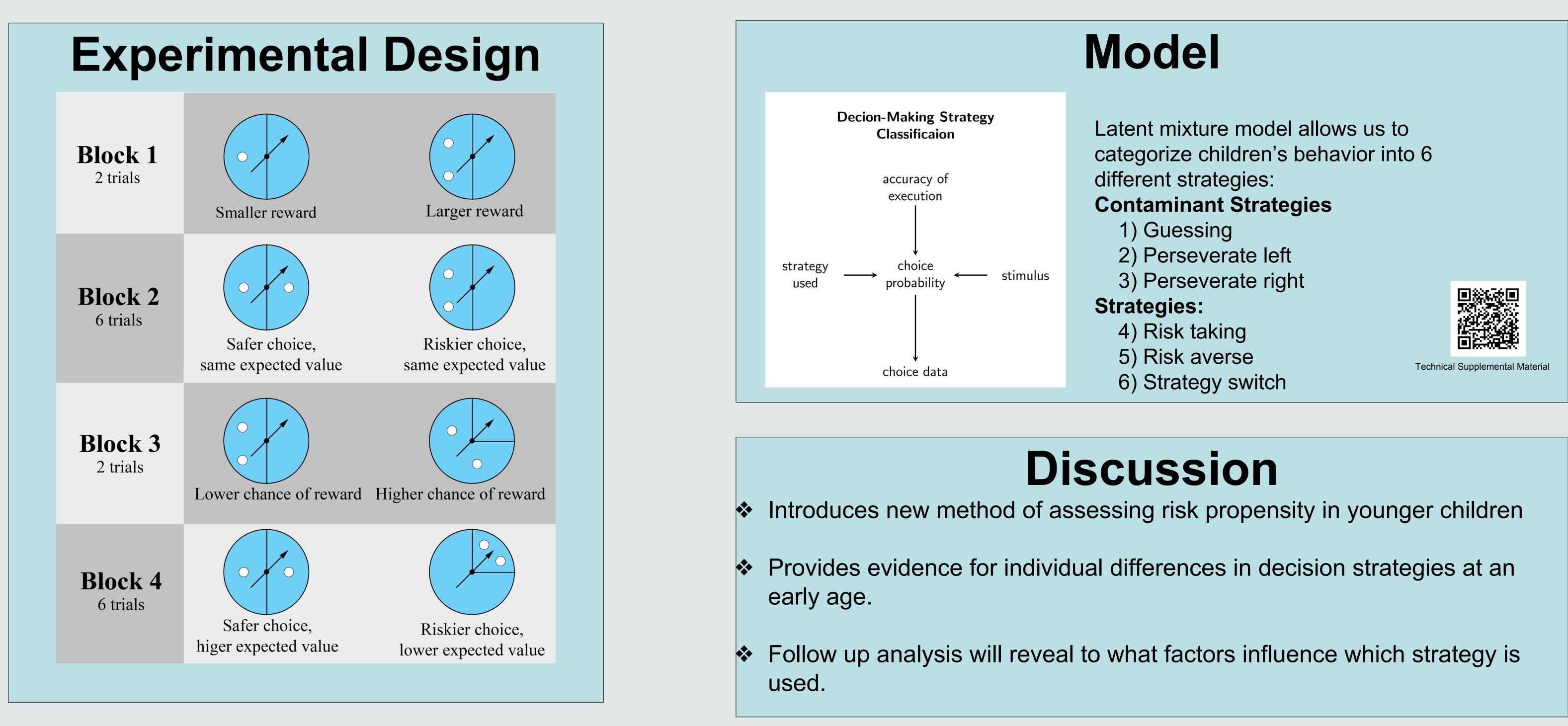
Procedure: Participants are told they are going to play a fun game to win stickers. Asked to make a series of decisions between two spinner wheels to win stickers to take home

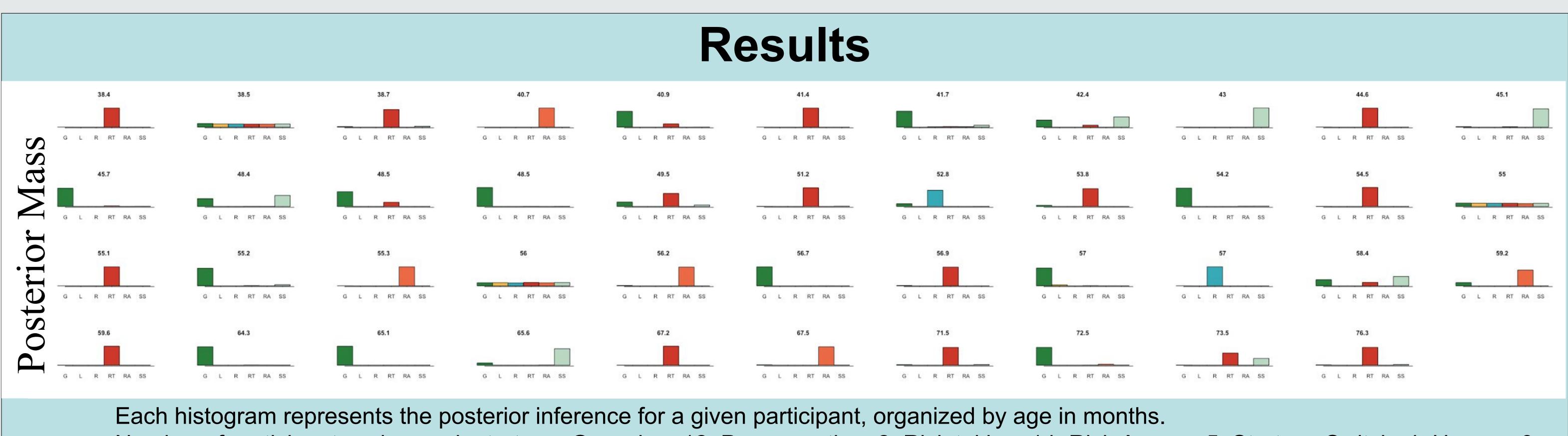
"You get to keep the stickers the arrow points to."



"You can only spin one, which spinner should we spin?"

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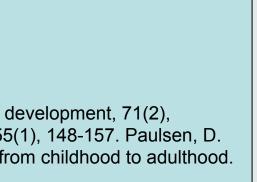




Number of participants using each strategy: Guessing: 12, Perseveration: 2, Risk taking: 14, Risk Averse: 5, Strategy Switch: 4, Unsure: 6



329-338. Kerr, A., & Zelazo, P. D. (2004). Development of "hot" executive function: The children's gambling task. Brain and c J., Platt, M. L., Huettel, S. A., & Brannon, E. M. (2012). From risk-seeking to risk-averse: the development of economic risk preference from Front. Psychol, 3(313), 10-3389





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