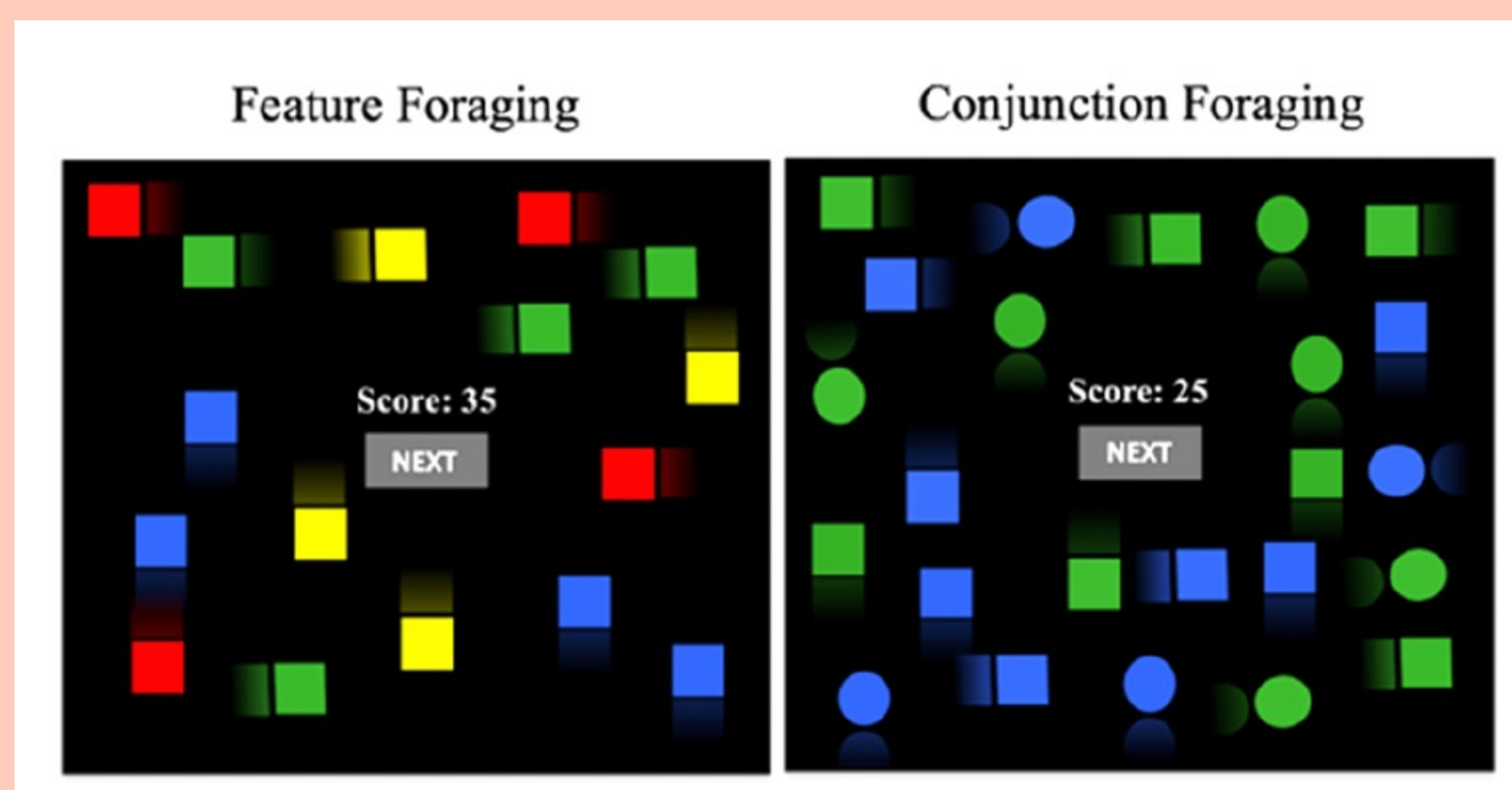


# The FORAGEKID Game: Using Hybrid Foraging to Study Executive Functions and Search Strategies During Development

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## Hybrid Foraging



Searching for multiple instances of multiple targets (e.g., looking for blue squares and green circles in conjunction foraging)

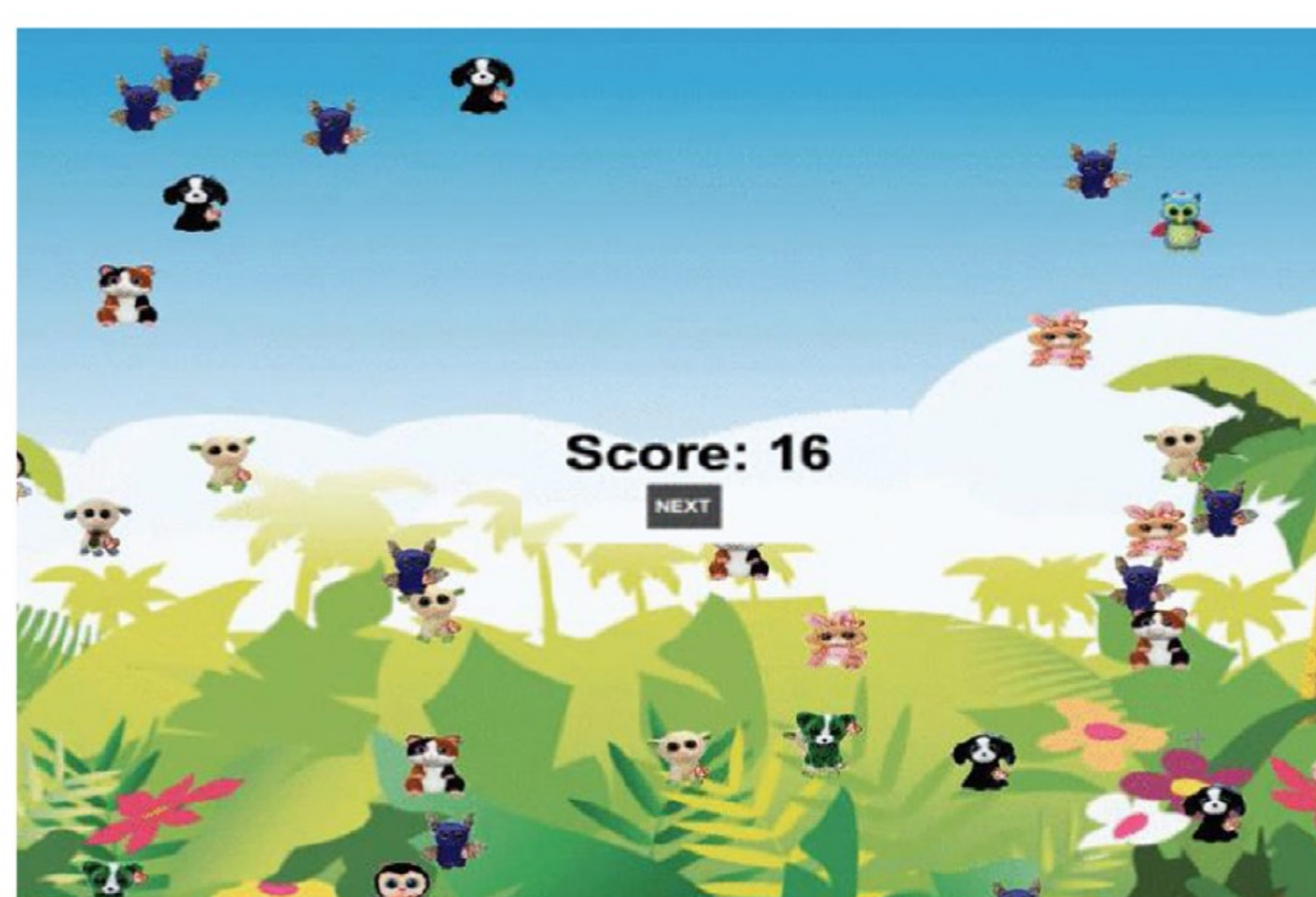
Allows us to study different aspects of Cognitive Development within a single task...

## THE FORAGEKID GAME

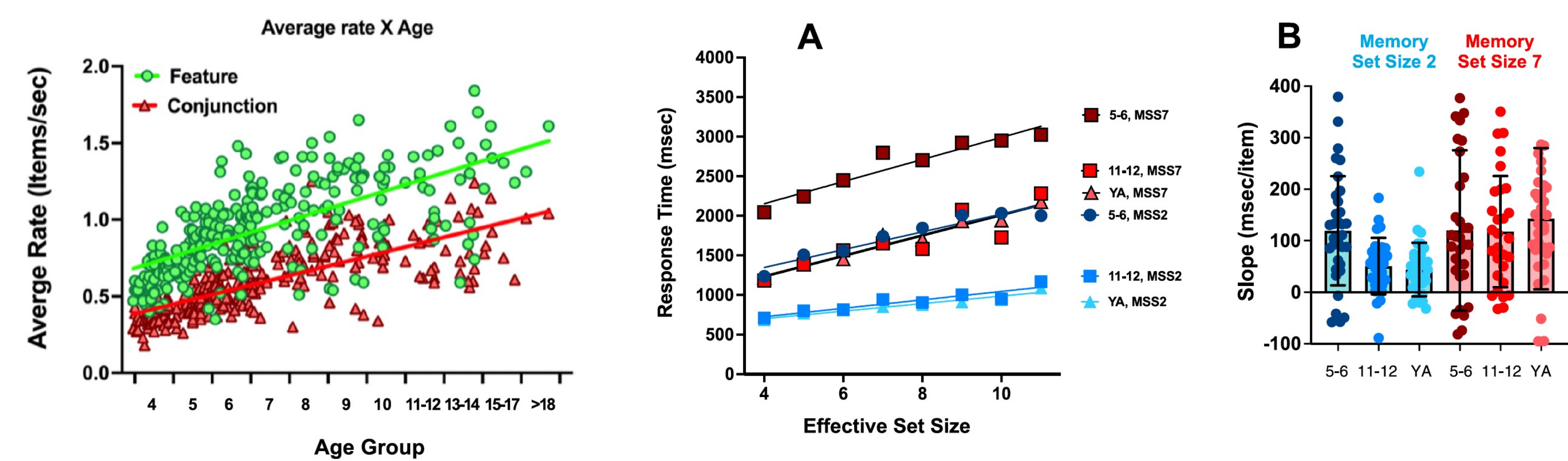
Remember these Targets



...and look for them as they move around

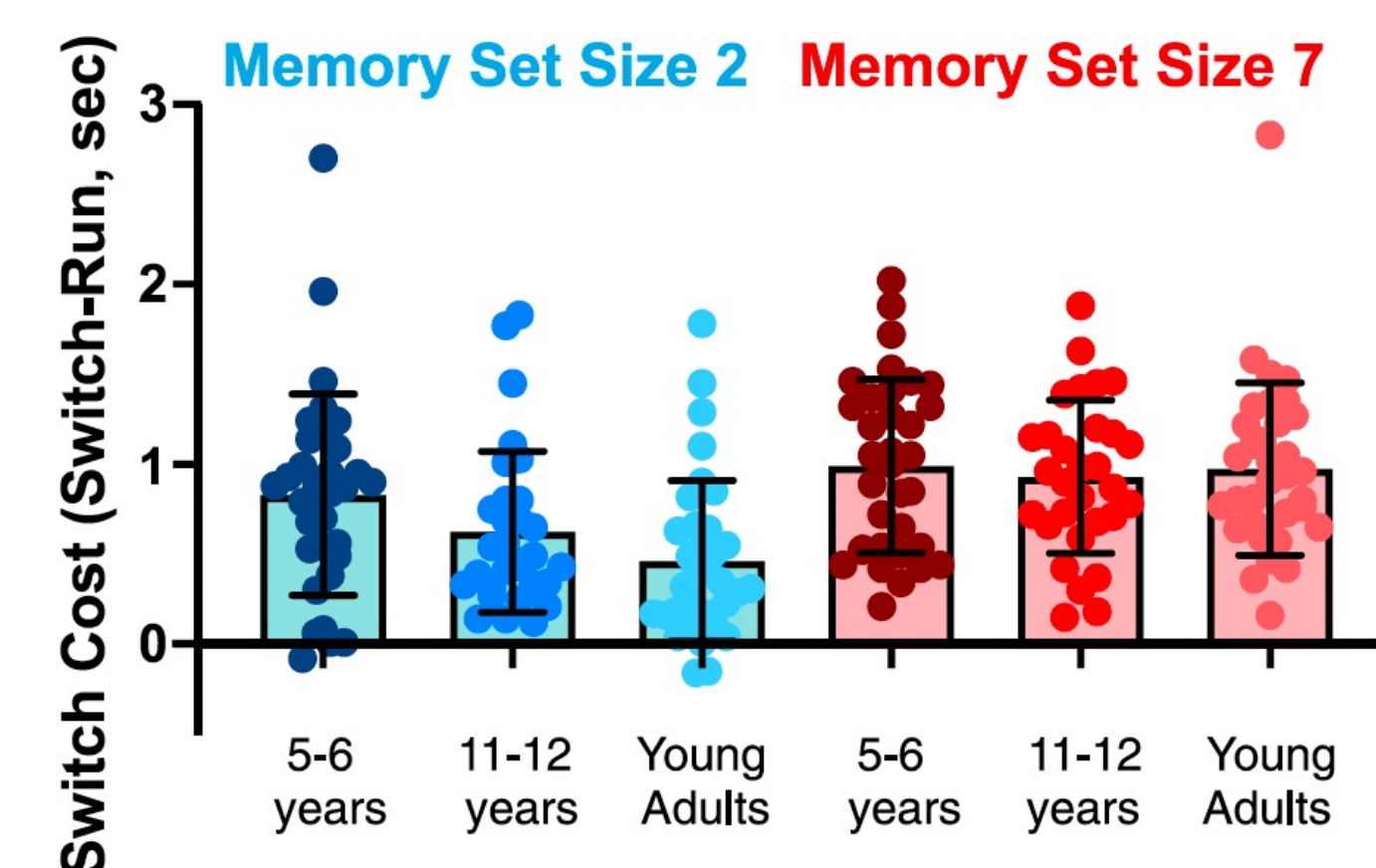


## Studying Selective Attention



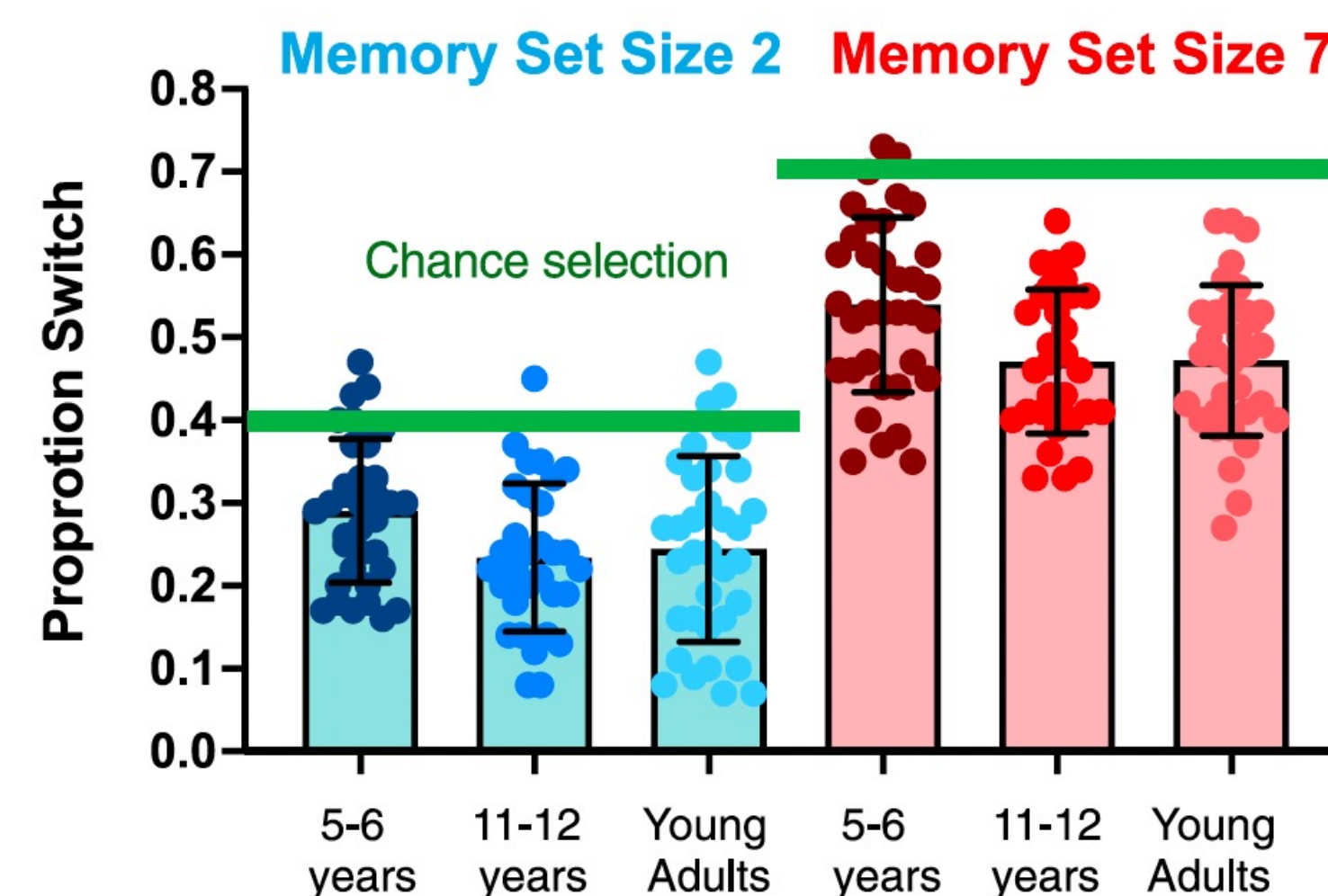
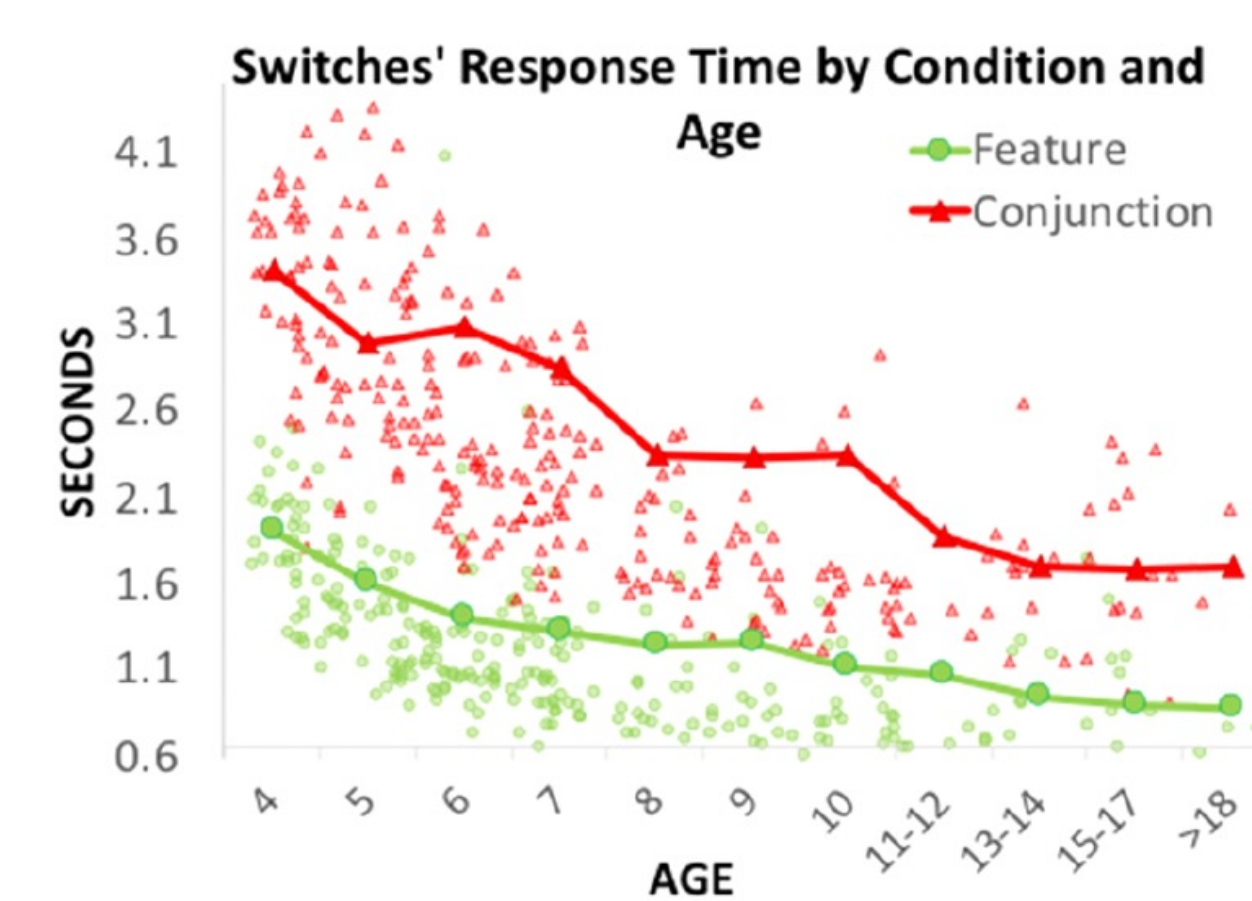
Faster foraging in feature conditions. Larger RTs for children but similar slopes of Search functions.

## Studying Memory modulations



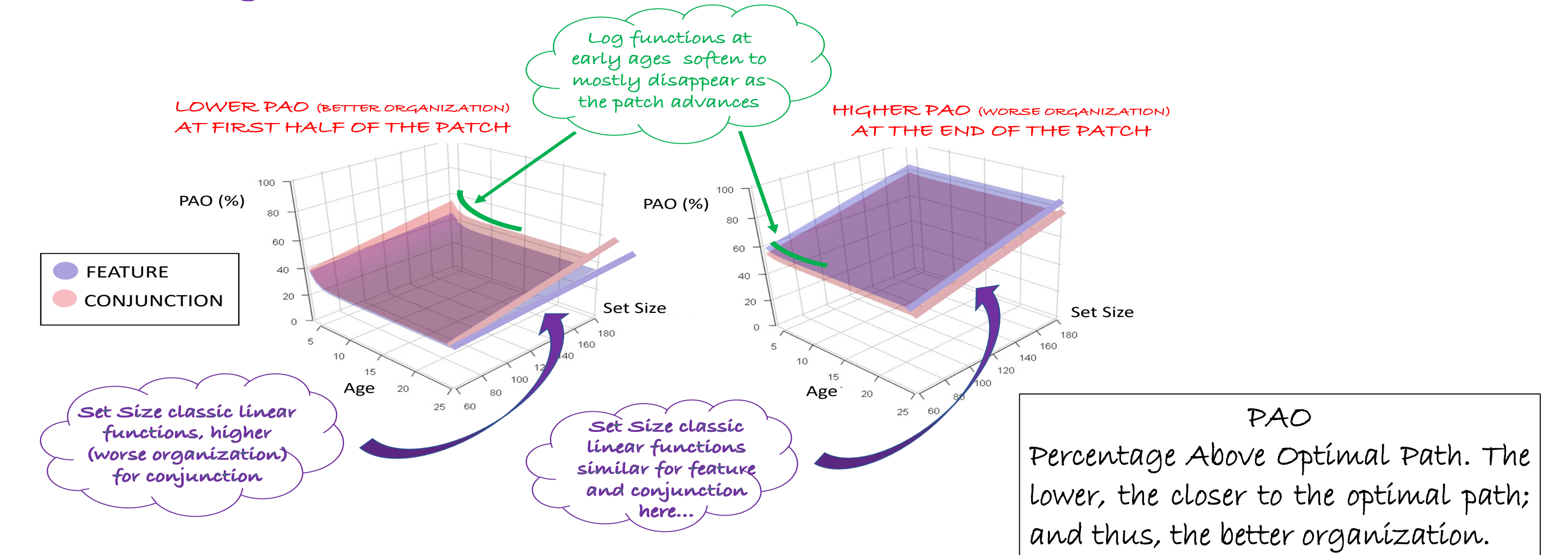
Costs of memory load elevated for children in low memory load conditions; not at high memory load ones.

## Studying Search Strategies



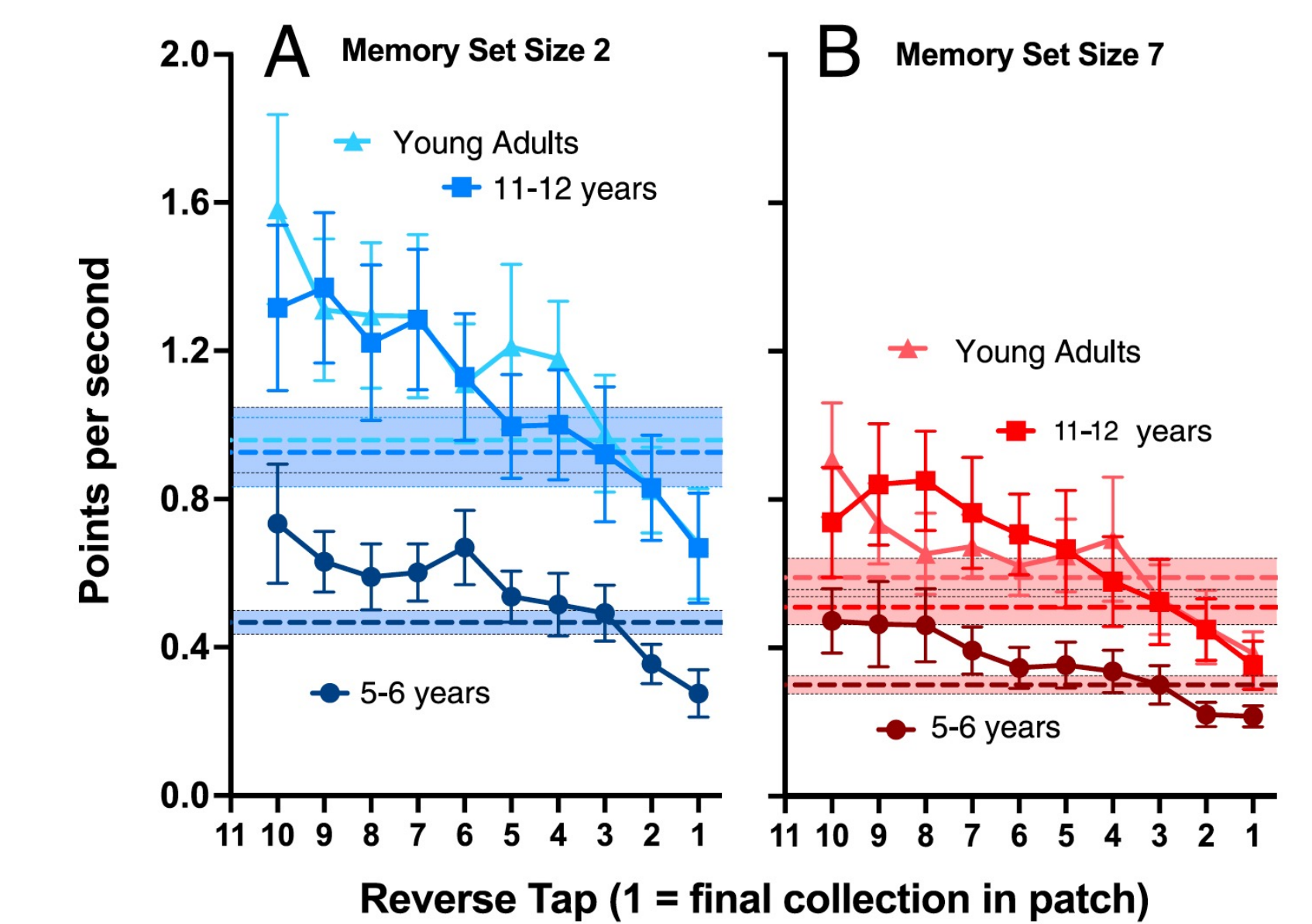
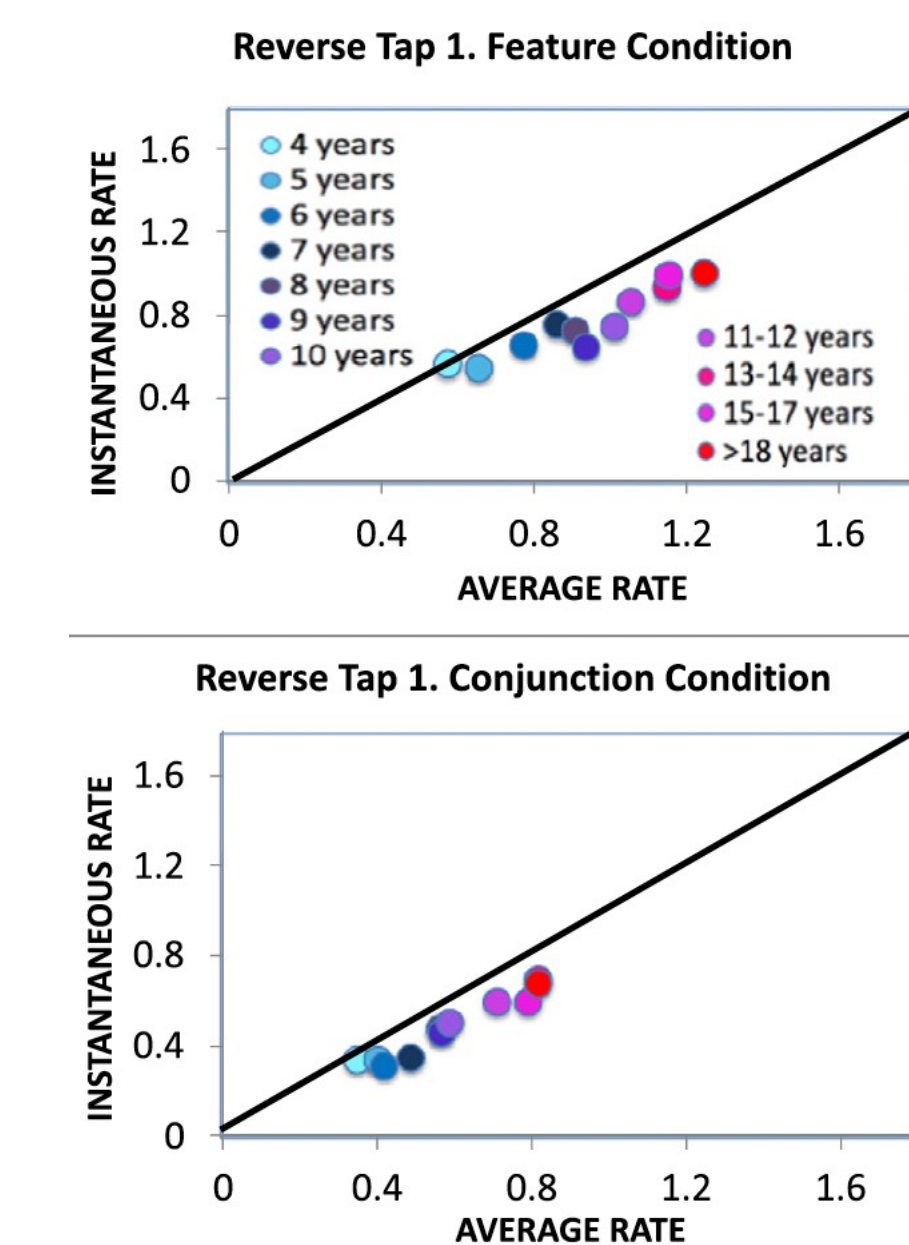
Shorter RTs as age increases. Higher target switching costs for children in both memory load conditions.

## Studying Spatial Organization of search



The FORAGEKID is sensitive to spatial organization

## Studying Optimal Decision-Making in Search Quitting Times



Our foraging game show similar patterns of "patch leaving" decision-making in search quitting rules among age groups.

## CONCLUSION

The data indicate that our FORAGEKID GAME is an enjoyable tool for effectively assessing a range of attentional and executive functions over the lifespan.

Download our papers here!



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