



Infant Learning and **Development Laboratory** The University of Chicago

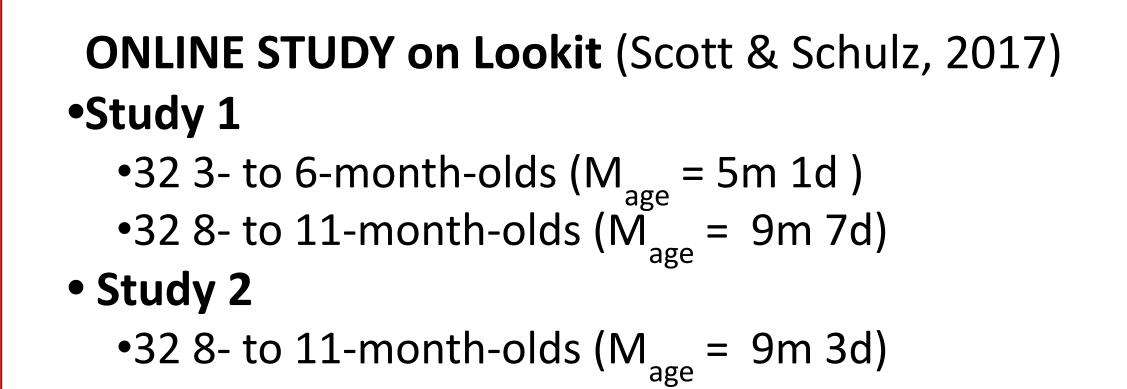
INTRODUCTION

- Five-month-olds prefer to look at people who speak their native language rather than a foreign language (Kinzler et al., 2007).
- In other social categories (e.g., race), the visual preference for members of the familiar category often disappears or reverses around 9 months of age (Liu et al., 2015).
- Past studies generalize from static stimuli (i.e., faces), but people are intentional agents who are constantly performing actions.

### **Research questions**

- Does the visual preference for native language speakers change through development?
- Does the type of stimuli used (static pictures vs **dynamic videos**) influence how infants attend to speakers of different languages?

### PARTICIPANTS



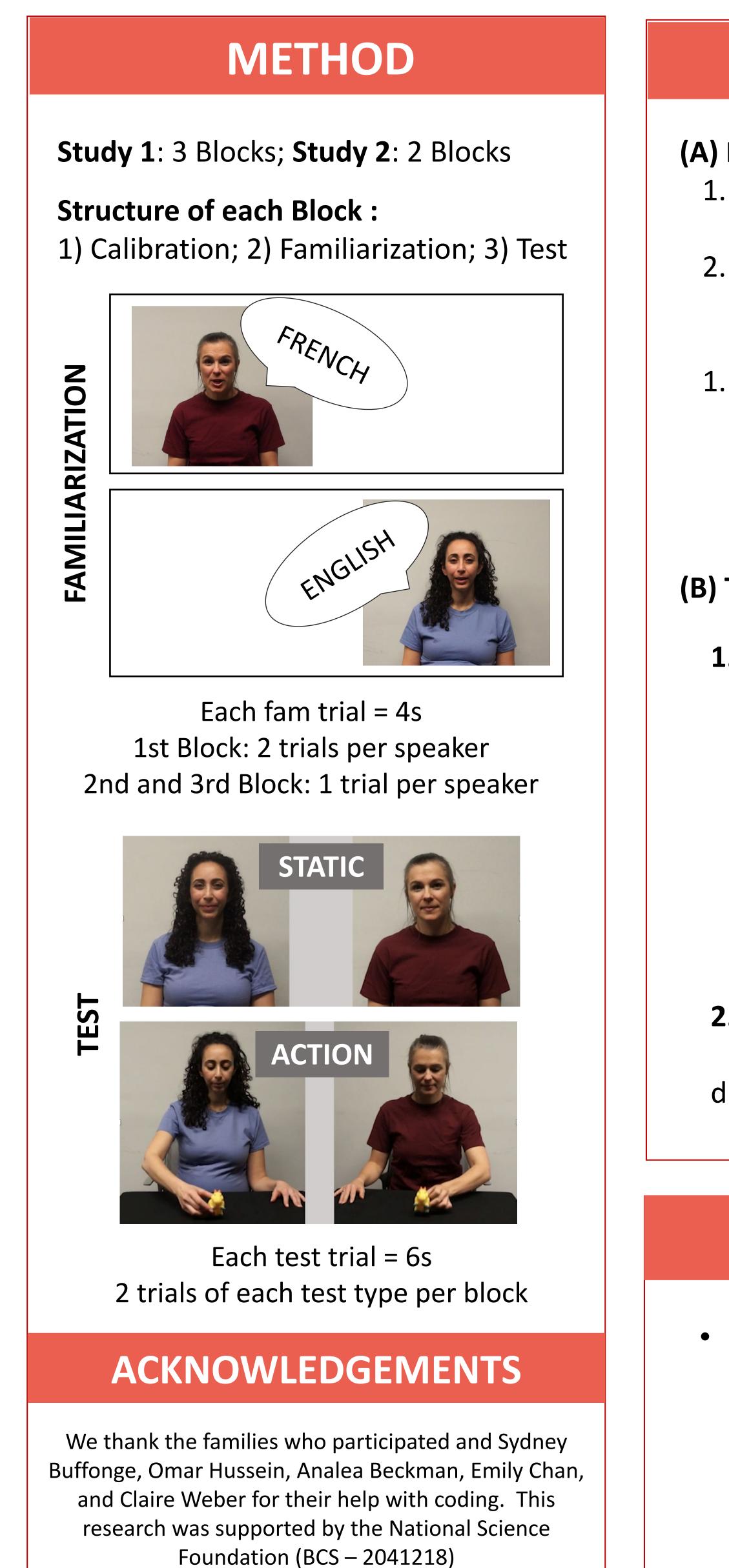
### REFERENCES

Kinzler, K. D., Dupoux, E., & Spelke, E. S. (2007). The native language of social cognition. *Proceedings of the National Academy of Sciences, 104*(30), 12577–12580. https://doi.org/10.1073/pnas.0705345104 Liu, S., Xiao, W. S., Xiao, N. G., Quinn, P. C., Zhang, Y., Chen, H., Ge, L., Pascalis, O., & Lee, K. (2015). Development of visual preference for own-versus other-race faces in infancy. *Developmental Psychology*, *51*(4), 500–511. https://doi.org/10.1037/a0038835 Scott, K., & Schulz, L. (2017). Lookit (Part 1): A New Online Platform for Developmental Research. *Open Mind*, 1(1), 4–14. https://doi.org/10.1162/OPMI\_A\_00002

# **Development of infants' attention to speakers of different languages** in static and dynamic scenes

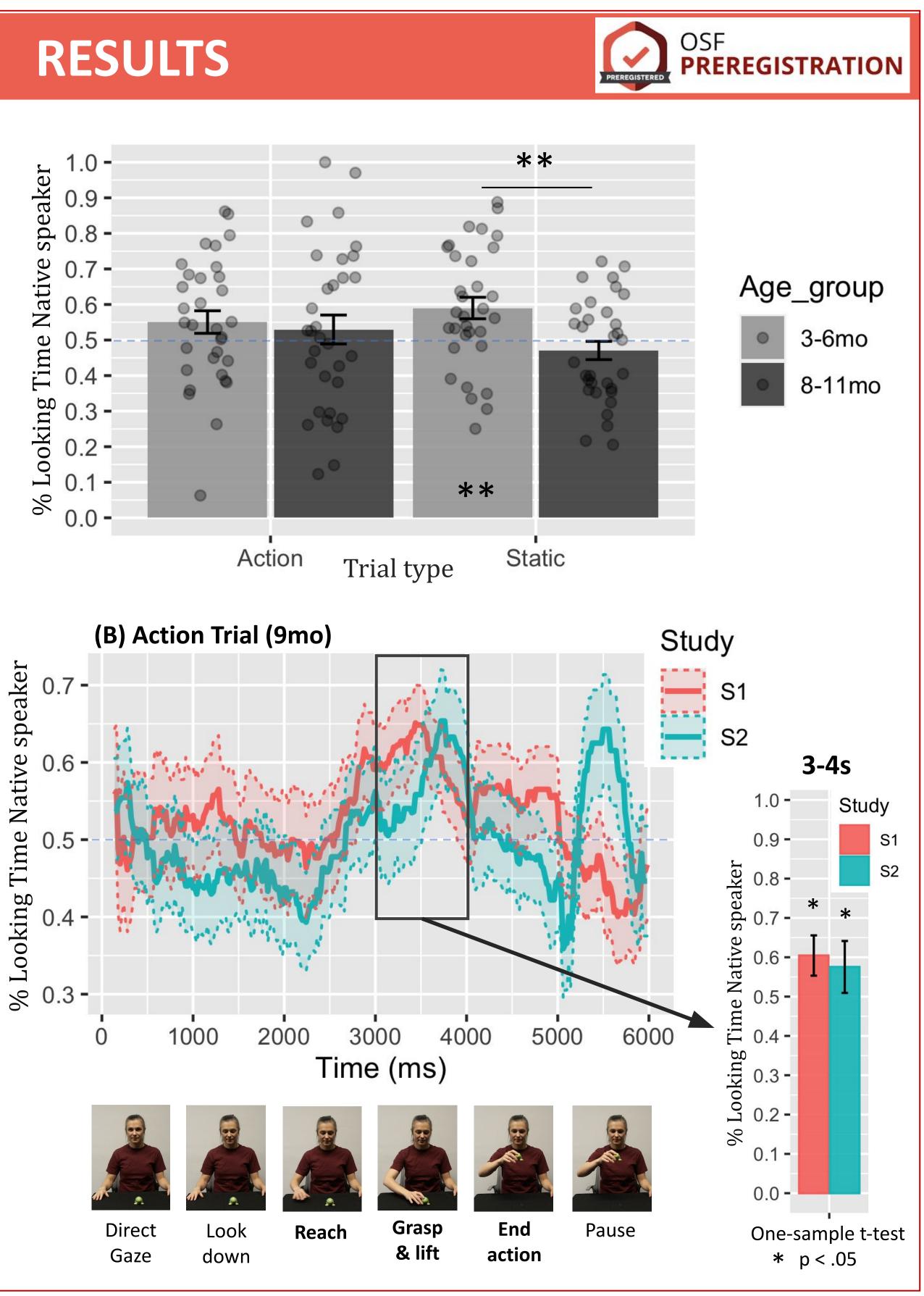
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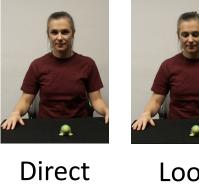
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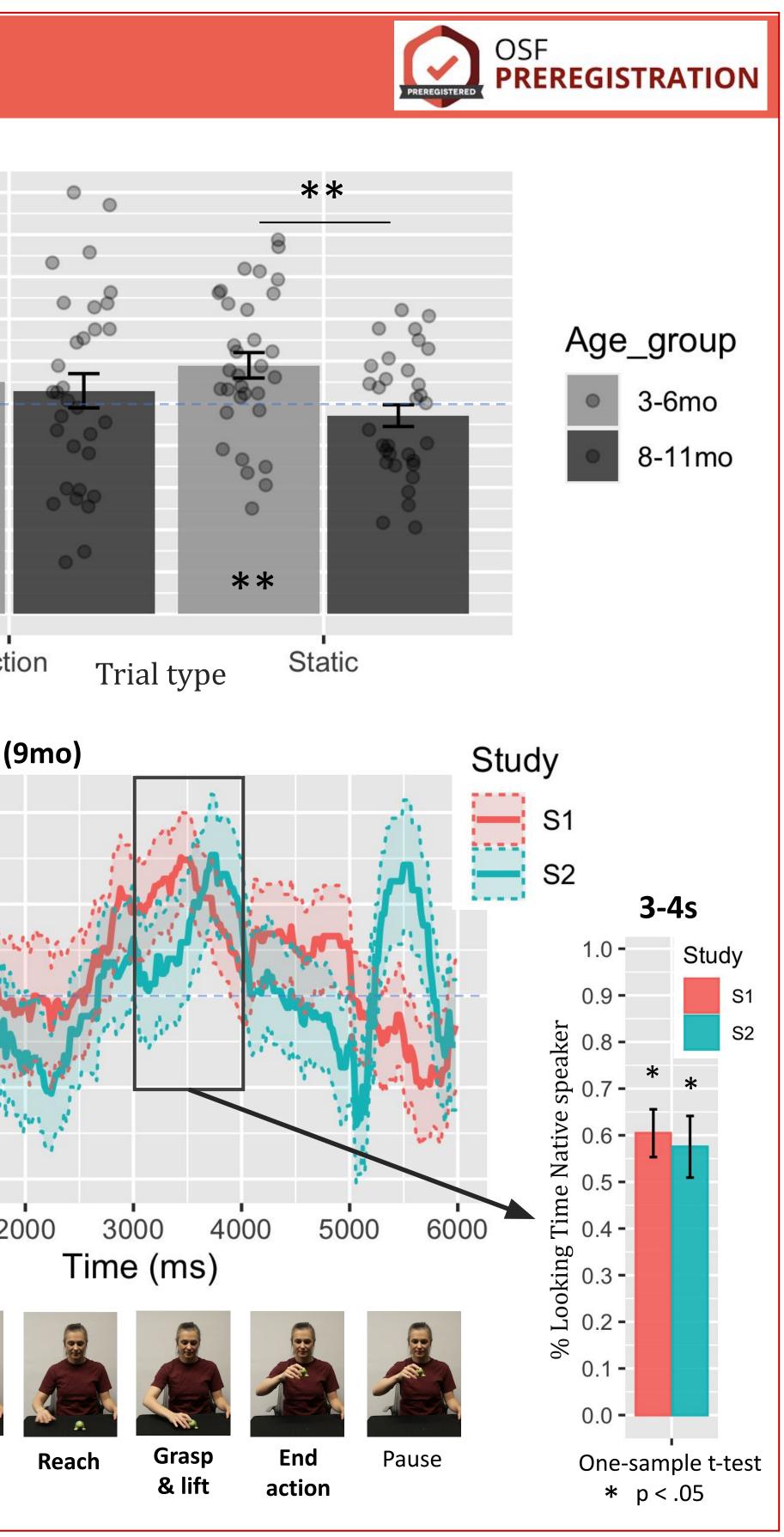


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## DISCUSSION

- There is a **developmental change** in infants' visual preference for native language speakers. Infants at 5 months, but not at 9 months, preferred to look at native language over foreign
  - language speakers when presented with static stimuli. • At 9 months, infants' selective attention may be more strategic and nuanced: they showed a bias for native language speakers when tracking others' goals, but not in other situations that were less informative or relevant.

### (A) Main analysis (pre-registered) Age \* Trial type (p = .04).

Age differences only in Static trials (p < .01).

Static trials: Native speaker bias at 5 months (*p* < .01), but not at 9 months.

### (B) Time Course for Action trials

#### **1. Study 1: Exploratory analysis** 1.1. 9 mo: Native speaker bias that was time-locked to the moment when speakers grasped and lifted the toy (3-4s window).

1.2. **5 mo**: No clear time-locked preference (and no difference between static and action trials).

### 2. Study 2 (9 mo): Pre-registered

1.1. Replicated Native speaker bias during 3-4s of Action trials.





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