

## Translation, Outreach & Education

"From Sounds to Sentences: How Everyday Interactions Support Language Development"

## Early Experiences Matter

- Infants' exposure to language in the womb is the beginning of language learning (Moon, Lagercrantz & Kuhl, 2013)
- By 10- to 12-months of age, infants have begun to specialize in hearing the sounds of their native language (*Kuhl et al., 2006*)



## From Sounds to Sentences



- Infants detect when event components reliably occur together and label this event (climbing – descending – dismounting = sliding)
- Word learning is best in social interactions in which live, familiar humans provide scaffolding, use eye gaze and follow the child's lead

familiar e child's lead

## Early Experiences Set the Stage for Learning

(Brooks & Meltzoff, 2002; Kuhl et al., 2003; Roseberry et al., 2011)

7 mo.	2 yr.	4 yr.	5 yr.	6 yr.	4 <sup>th</sup> grade	
Gray matter 🚽 Vocabulary	•					
Reading social vocab	cues → later					
Hearing infant-directed speech → later vocab						
Speech percep language grow		Links to reading	at age 5			
		Sophistic	ated words	s 🔶 readir	ng comp.	

We are beginning to understand early predictors of language:

- Following a speaker's eye gaze and using pointing gestures predicts children's vocabulary at 2 years of age (Brooks & Meltzoff, 2008)
  - Becoming attuned to native speech sounds in the first year predicts language at 24- and 30-months of age...and may even link to reading readiness at age 5

(Kuhl et al., 2005; Lebedeva et al., 2010)

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