Impacts on the early language environments of



deaf children with hearing parents





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Background

- Most deaf children are born to hearing parents who know little-to-no sign language when their child is born.
- Access to spoken language depends on factors like device use/efficacy, residual hearing levels, and environment.
- As a result, deaf children are at a high risk for early language deprivation.
 - This carries long-term effects on social, cognitive, and academic development.

Results

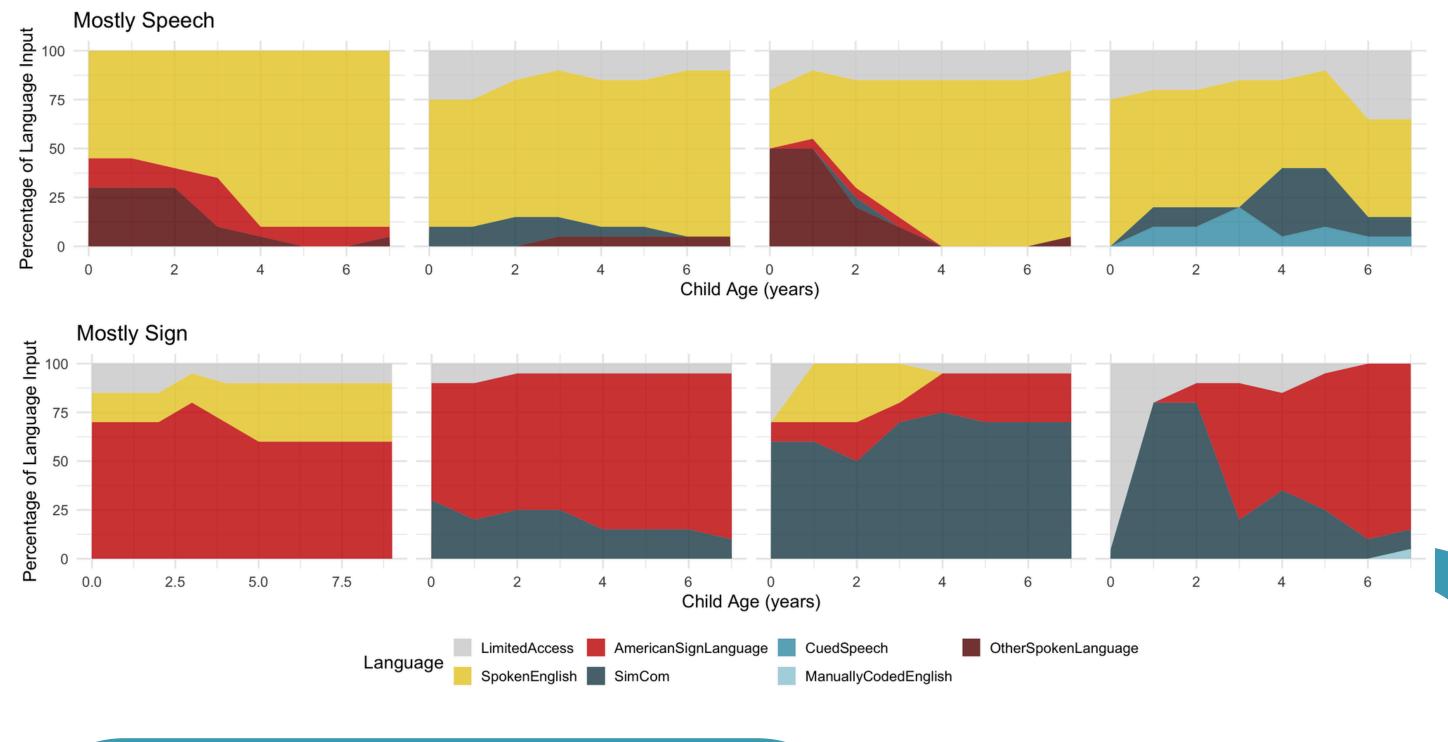
Each panel below represents one child's percentage of language input in each language.

Methods

- Participants: 53 deaf children (4 11 yr; M = 7.2 yr)
 - at least one hearing parent
 - began learning ASL in early childhood
- Instrument: Language Access Profile Tool (Hall & De Anda, 2022)
 - Zoom interview with parents about their child's language history, services, and life events
 - This provided year-by-year estimates of the amount,
 type, and accessibility of language exposure

Research Questions:

- 1. How does language exposure change across age?
- 2. Do certain life events predict changes in language input?



Even within children who used mostly speech (top) or mostly sign (bottom), language profiles differed dramatically

For nearly all children (86%), the amount of time with <u>no accessible input</u> decreased across age

Early years are most vulnerable to language deprivation

- Increases to English occurred after:
 - Receiving hearing aids
 - Cochlear implant activation
 - o COVID-19
 - Birth/adoption of a new sibling
- Increases to ASL occurred after:
 - Caregiver enrollment in ASL classes
 - Deaf mentor programs
 - Changes to the adults in the household



What drives changes to language environments?

Got hearing aid -		-26	14	4	10	0	0	-2	-1	
Got cochlear implant –		-25	18	0	10	-1	0	0	-2	
Started ASL classes -		-20	8	8	6	0	0	-1	-1	
Started or increased time with deaf mentor -		-14	3	6	5	0	0	0	0	
COVID-related change to school -		-6	13	0	-6	0	0	0	0	
Changes to adults in household (ex: divorce or grandparent moved in)		-12	2	7	2	0	0	0	0	
Started or increased speech therapy –		-11	9	3	0	0	0	-1	0	
Changes to children in household (ex: new sibling born or adopted)		-4	11	-2	-4	-1	0	-1	0	
Other - Started school or changed schools -		-7	5	1	1	0	0	0	0	
		-5	2	6	-3	0	0	0	0	
	Moved -	-6	4	0	3	0	0	0	0	
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Takeaways:

Deaf children's language input is varied and dynamic.

Language input changes frequently across time, and these changes can be linked to specific events in the child's life.