

OVERVIEW Background Cross-linguistic influence Bimodal bilinguals Focus on 6 English morphemes Results Discussion and conclusion

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 Overall slower development in one language than monolinguals (but catches up, esp. in dominant language(s)) • Code-switching • Use of structural properties of language A with words of language B Cross-Linguistic Influence

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 What are the linguistic conditions under which Cross-Linguistic Influence is observed? Do specific linguistic properties of Language A affect its influence on Language B?

Example: Development of English past tense by 5- to- 12-year-old French-English vs. Chinese-English bilinguals (Nicoladis et al. 2012) Both groups showed overall high accuracy French-English bilinguals (like monolinguals) more accurate with regular verbs Chinese-English bilinguals more accurate with irregular verbs The richness of French verbal morphological paradigm helps children acquire regular English past tense -ed faster than Chinese-English bilinguals

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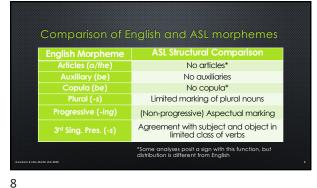
Cross-linguistic influence in the acquisition of English morphemes by ASL-English bilinguals Possible cross-linguistic influence effects based on differences between ASL and English If ASL has no equivalent (obligatory) overt expression to an English morpheme If ASL has an expression which patterns differently from an English morpheme 6 English morphemes selected for analysis

· Occur with sufficient frequency

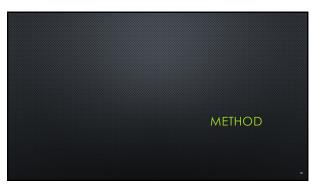
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Acquired by monolinguals between ages 2 and 5



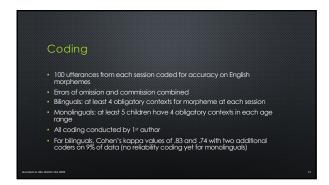
RESEARCH QUESTIONS Do ASL-English bimodal bilinguals show bilingualism effects in the acquisition of English morphemes? Are there any differences between different morphemes based on structural comparisons between ASL and English?



• 3 target children (Bimodal bilinguals) Longitudinal data – ages 2;06-5;00 • 60 Monolingual English speakers • All participants are male • Data are from spontaneous production in play sessions

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General bilingualism effect

• How do the bilinguals compare to monolinguals over the age span?

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Age Analysis (Morphemes collaps	ed)			
		Ben	Lex	Tom
Comparison between bilinguals and monolinguals on accuracy for each morpheme. Totaling across morphemes, percent accuracy for bilinguals below the lowest monolingual performance	30 months	0	NA	t.
	36 months	20	80	8
	42 months	60	60	4
	48 months	NA	60	3
	54 months	0	0	5
	60 months	20	17	6

Individual morpheme results

• For each morpheme, we overlay a scatterplot representing the three bimodal bilinguals (Ben in blue; Lex in red; Tom in green)...

• On a boxplot representing the results from the monolinguals (n=10 for each age group)

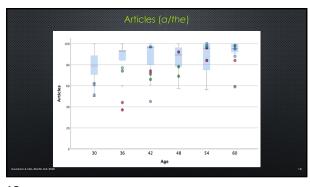
• As long as:

• Bilinguals: at least 4 obligatory contexts for morpheme at each session

• Monolinguals: at least 5 children have 4 obligatory contexts in each age range

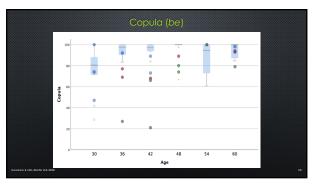
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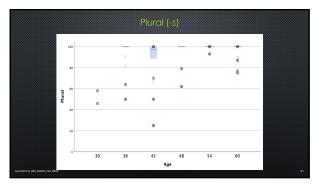
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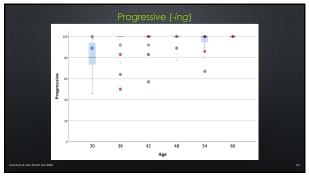


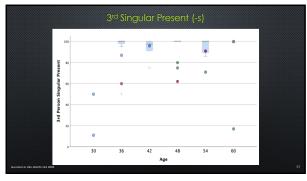
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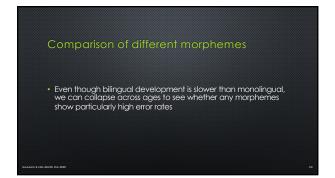


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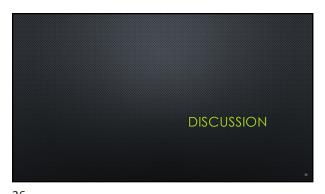


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(Age collapsed) Ben Lex Tom 13 13 Articles Be Auxiliary 25 50 Percent of sessions in which morpheme accuracy is below the lowest 11 50 63 Copula monolingual performance Plural 50 71 43 11 Progressive 60 29 3rd Present 0 33 33

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Overall bilingualism effect

All three children were less accurate than monolinguals in their production of these morphemes

By 54 months, two of the three were generally within the range observed for monolinguals

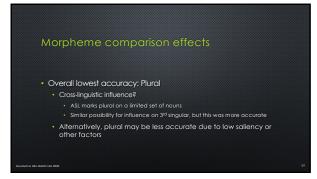
Still, about a third of the morphemes were in the lowest quartile

One child (Tom) shows a greater error rate throughout the observation period

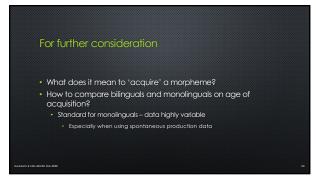
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Morpheme comparison effects

 Overall highest accuracy: Articles
 No 'interference' from ASL
 However, ASL also might be expected to show no interference on auxiliary and copula but these show moderately higher error rates



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CONCLUSIONS

Three bimodal bilingual children show overall bilingualism effects in their development of English grammatical morphemes.

There is not strong evidence that differences between morphemes in accuracy levels should be attributed to specific features of ASI.

Additional factors influencing performance to be considered.

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