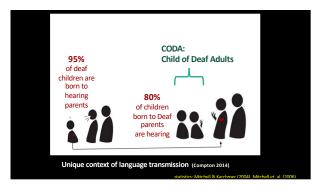
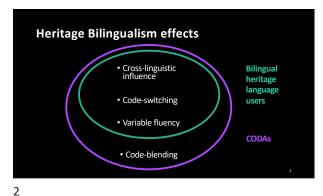
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Code-blending Simultaneous production of (aspects of) an utterance in sign and speech Bishop & Hicks (2005); Emmorey, Borinstein, Thompson & Gollan (2008); Pyers & Emmorey (2008); Emmorey et al. (2012); et seq.

Types of code-blending

- Coinsertion
- Simultaneous production of (one or more) spoken words and signs
- Full blending
 Both languages use the same structure
 - Both languages follow the structure of one
- Simultaneous production of distinct structures When is this permitted?

Note: A single utterance may combine more than one blend

Questions

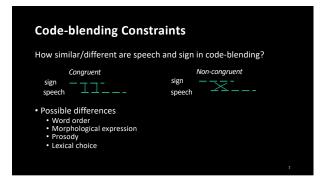
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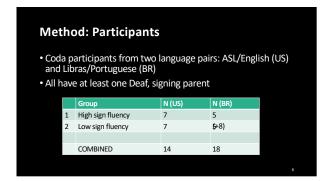
- What are the linguistic constraints on code-blending?
 - Is it possible to account for code-blending patterns using one derivation that combines features from the two languages?
 - Or is it necessary to allow for two separate derivations, one for each language? (Branchini & Donati 2016)
- Are there differences between individuals based on competence levels (a potential heritage language effect)?

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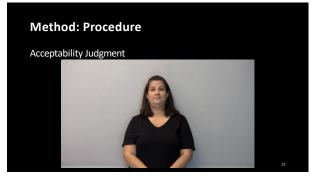
Method: Task

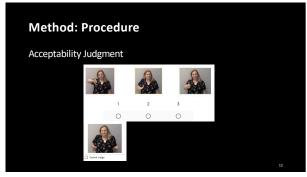
Acceptability judgment task
Sentence types very similar across the language pairs

Target items designed to check most likely cases of noncongruence

Word order
Possible language contrasts
Causative
Passive
Idiom
Additional structures
*Fillers

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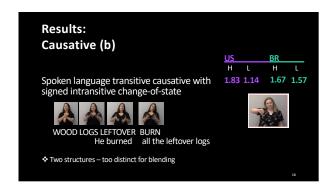
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Results:
Causative (a)

Spoken & sign language transitive causative

STORY FINISH FS(Dorothy) MELT WITCH
At the end of the story Dorothy melted the witch

Both languages use the same transitive causative structure
Late linearization: word order inversion in the adjunct phrase



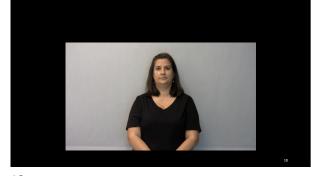
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Results:
Passive (a)

US BR
H L H L
2.50 2.71 2.78 2.71

MAN WALLET STEAL
The man's wallet was stolen

Initial NP is topic
No agent expressed
Impersonal verb in sign with spoken passive verb



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Results:
Idioms (a)

Spoken language idiom with signed literal translation equivalents

WE SHOOT+ WIND We were shooting the breeze

Structural synthesis isn't enough



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Results:
Idioms (b)

Spoken language idiom with signed meaning equivalent

NOT WORRY SMALL PROBLEM Don't worry over spilt milk

Structural synthesis isn't enough



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Discussion: Return to research questions (a)

• What are the linguistic constraints on code-blending? Is it possible to account for code-blending patterns using one derivation that combines features from the two languages? (Lillo-Martin, Quadros & Chen Pichler 2016; Koulidobrova 2016)

Or is it necessary to allow for two separate derivations, one for each language? (Branchini & Donati 2016)

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Discussion: Constraints on code-blending

- Congruent structures preferred
- Following either/both languages
- Non-congruent structures allowed for
 - Inversions under one node
- Structural incompatibilities
 - Transitive causative and intransitive change-of-state
 Passive with by-phrase and active SVO
- Semantic compatibility is required above syntactic compatibility Idioms

Discussion: Return to research questions (b)

- ✓ Are there differences between individuals based on competence levels (a potential heritage language effect)?
- Codas with higher ASL fluency are more critical than those with lower fluency

Conclusion

- "The bilingual is not two monolinguals in one person" Grosjean (1989)
- Code-blending reveals complex rule-governed interactions between languages
- Codas display characteristics of heritage language users

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Thank you

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