

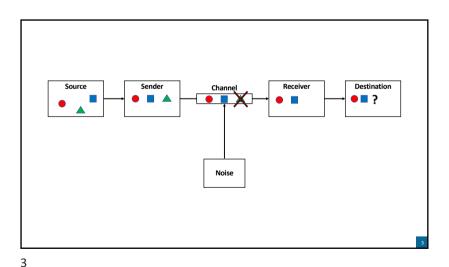


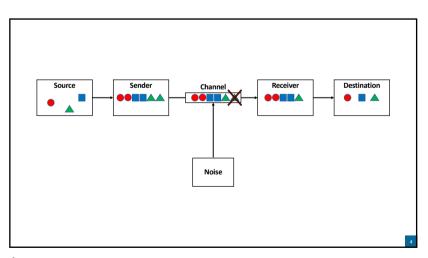
Source Sender/ encoder Channel decoder Destination

Noise

Based on Shannon (1948)

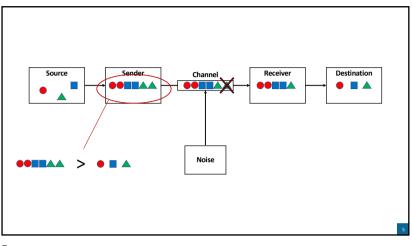
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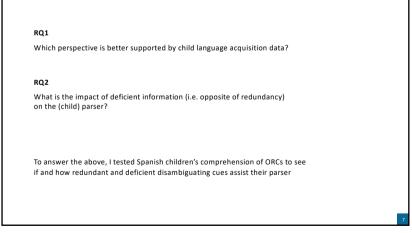
There is no consensus on whether redundancy is beneficial or not for human language

- Redundancy ensures robustness against information loss (Levshina 2020 a.o.) and supports learnability (Tal and Arnon 2022 a.o.)
- Redundancy is not economical (Dahl 2004 a.o.) and disadvantageous to learners (Trudgill 2011 a.o.)

These perspectives produce conflicting predictions on the role of redundancy in language acquisition

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Handout for conference programme (NOT official slides)



A cue is a grammatical property whose presence or absence implies that a given XP is either the subject or the object of a given clause

There is a lot of evidence showing that cues ameliorate the comprehension of of ORCs by children

eg

- Gender agreement in Hebrew (Friedmann et al. 2009)
- Case marking in Greek (Guasti et al. 2012)
- .

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(1) El niño que saluda el futbolista DOM is absent ⇒ el futbolista must be the subject the boy that greet.3sg the footballer I dub this in-absentia DOM cue The boy that the footballer greets (2) El niño (al) que saluda el futbolista DOM before que \Rightarrow the relative head must be the object the boy the DOM that greets the footballer I dub this in-praesentia DOM cue (or simply DOM) The boy that the footballer greets (3) El niño que el futbolista saluda the boy that the footballer greets El futbolista is preverbal \Rightarrow it must be the subject I dub this Word Order cue (or simply WO) The boy that the footballer greets (4) El niño (al) que el futbolista saluda WO + DOM the boy the DOM that the footballer greets The boy that the footballer greets

Differential Object Marking (DOM)

[animate; specific] Direct Objects (DOs) are marked with the morpheme "a"

Pedro saluda al chico
Pedro greet.3SG DOM.the boy

El chico al que Pedro saluda
the boy DOM.the that Pedro greet.3SG

Word Order (WO)

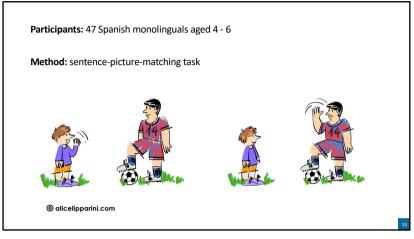
In Spanish ORCs, the XP that precedes the verb within the RC must be the subject

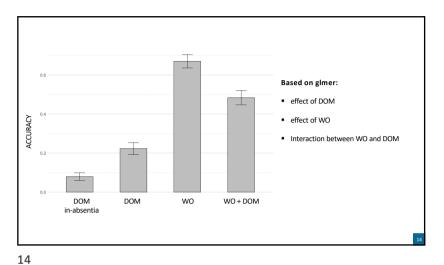
El chico al que Pedro saluda
the boy DOM.the that Pedro greet.3SG

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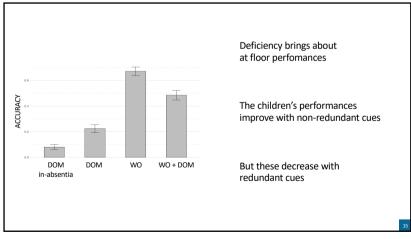
xperimental conditions	Predictions
1) DOM in-absentia Deficient 2) DOM Non - redundant	If redundancy assists child processing, then 4 is better than 2 and 3
3) WO Redundant	If redundancy obstructs child processing, then 2 and 3 are better than 4
	1 is the most burdensome condition, because <i>in-absentia</i> cues are not robust enough (cf. Biberauer and Roberts 2012)







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RQ1 + RQ2
What is the role of redundancy/deficiency in child language processing?

The child parser is supported by neither redundant nor deficient cues

Rather, it seems to benefit from a trade-off between "too much" and "too little" information

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