

Code-switching always, carefully, completamente y frecuentemente

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Adverb Position

- Restrictions on adverb position can vary based on language
- For example, in English post-verbal adverb position is restricted, but not pre-verbal adverb position
- (1) * Hannah **speaks always** English.
- (2) Hannah **always speaks** English.

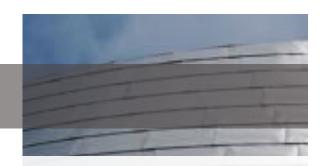
Adverb Position

- Spanish is more flexible with respect to adverb position
 - Generally acceptable either pre-verbally or post-verbally

(3)	Juana	habla	siempre	español.						
	Juana	speaks	always	Spanish						
	'Juana always speaks Spanish.'									
(4)	Juana	siempre	habla	español.						
(4)	Juana Juana	siempre always	habla speaks	español. Spanish						
(4)	Juana	-								







- Argued that verb (V) and tense (T) determine adverb position (Camacho & Sánchez, 2017; Pollock, 1989; Suñer, 1994; Zagona, 2002; among others)
 - V-to-T movement is one option for feature checking
 - Or if an agreement relationship occurs between V and T, there is no need for movement (i.e., affix lowering)
- Languages can be categorized as either verb-raising (e.g., French) or non-raising (e.g., English)
- Spanish is a so-called hybrid language (Ayoun, 2005)
 - There is always movement, but with a lower spell-out can occur (Camacho & Sánchez, 2017)

(Non-)Raising in English and French

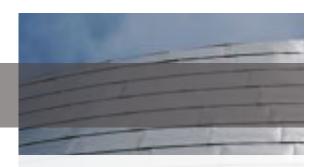
- (5) $[TP Hannah [T' t_i] VP always speaks+T_i Spanish]]]$ non-raising
- (6) [_{TP} Jeanne [_{T'} **parle**_i+**T** [_{VP} **toujours** t_i français]]] verb-raising

Jeanne speaks always

French

'Jeanne always speaks French.'

(Non-)Raising in Spanish





Adopting a Minimalist approach to CS (MacSwan, 1999), predictions about adverb switches can be made

• Language of the finite verb (i.e., V+T) should dictate acceptability in both monolingual and CS contexts

Research Question:

Does adverb position in CS pattern with the verb?

- Spanish adverb + English verb = preverbal (i.e., English-like non-raising)
- English adverb + Spanish = flexible (i.e., Spanish-like non-raising *or* verb-raising)?

Participants

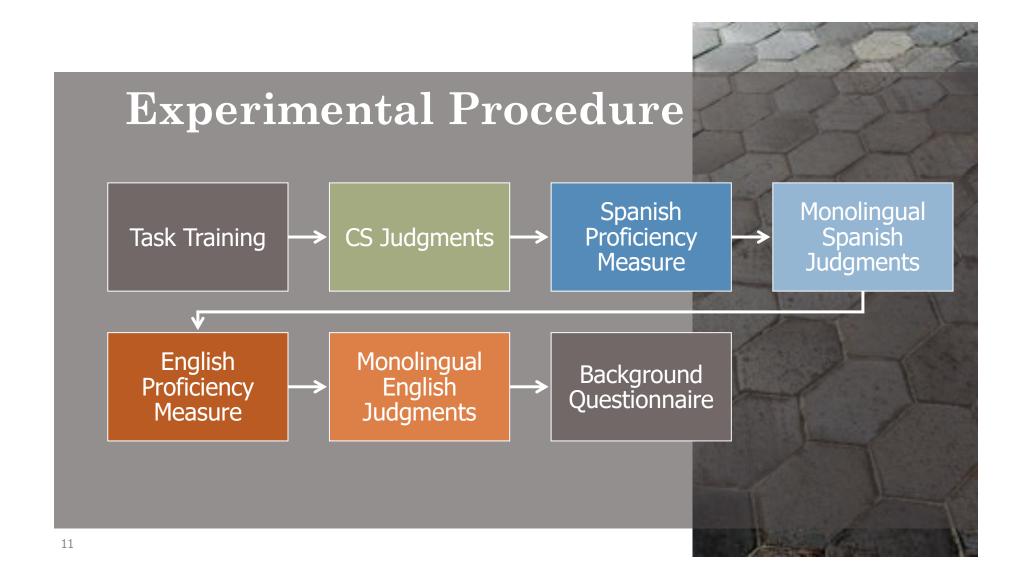


- US Spanish-English early bilinguals (n = 24)
 - Learned both from a young age (M = 1.8 years) (i.e., 2L1 bilinguals)
 - 19-49 years old (M = 23.2)
 - Born in the US (n = 20) or arrived at a young age (M = 4.8 years)
 - English dominant (M = 26.1 out of ± 218)
 - Bilingual Language Profile (Birdsong, Gertken & Amengual, 2012)
 - Advanced English proficiency
 - Modified English cloze test (O'Neill, Cornelius & Washburn, 1981)
 - Intermediate/advanced Spanish proficiency
 - Diplomas del Español como Lengua Extranjera (DELE) (Montrul & Slabakova, 2003)

Task

- Written acceptability judgment task (AJT)
 - 7-point Likert scale (1 = lowest)
 - Completed online via Qualtrics

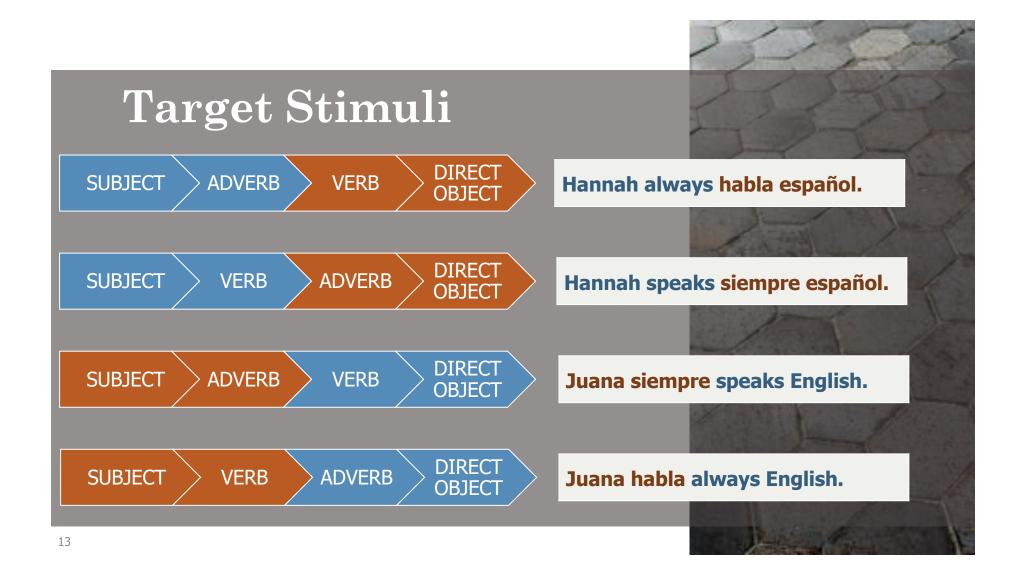
That guy pidió un vaso de agua.										
	Completely unacceptable	Mostly unacceptable	Somewhat unacceptable	Unsure	Somewhat acceptable	Mostly acceptable	Completely acceptable			
¿Qué le parece esta oración?	0	0	0	0	0	0	0			







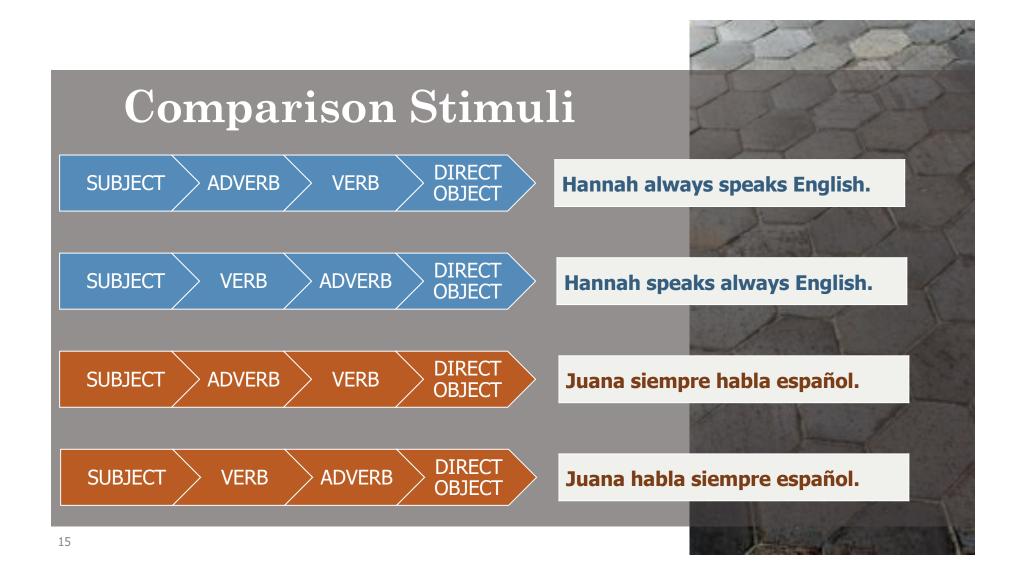
- Spanish-English sentences containing finite verbs switched with adverbs (n = 16)
 - Four conditions:
 - English V + Verb-Raising (i.e., *speaks siempre*)
 - English V + Non-Raising (i.e., *siempre speaks*)
 - Spanish V + Verb Raising (i.e., *habla always*)
 - Spanish V + Non-Raising (i.e., *always habla*)
 - Four different adverbs (Camacho & Sánchez, 2017):
 - always/siempre; carefully/cuidadosamente; completely/completamente; frequently/frecuentemente
 - Subject always a proper name; always an explicit direct object
 - Always matched the language of the adjacent element



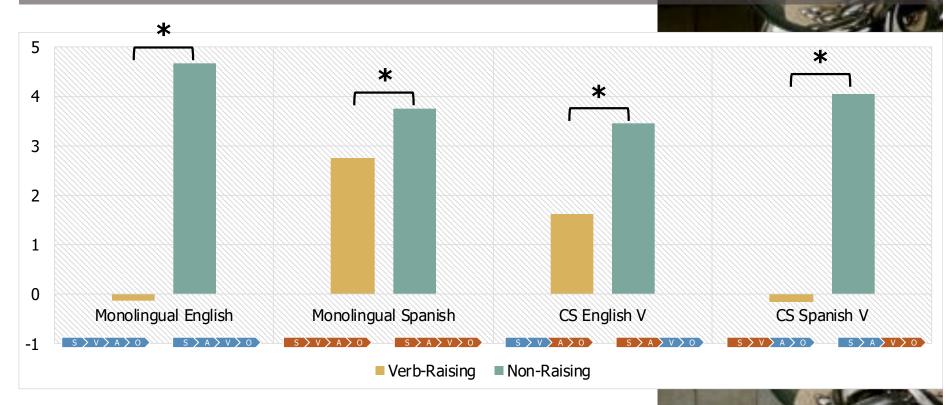




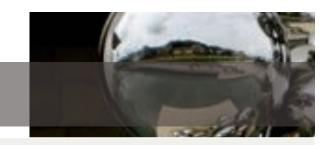
- Comparison monolingual equivalents were tested in Spanish (n = 8) and English (n = 8)
 - Four conditions:
 - English Verb-Raising (i.e., speaks always)
 - English Non-Raising (i.e., *always speaks*)
 - Spanish Verb-Raising (i.e., habla siempre)
 - Spanish Non-Raising (i.e., siempre habla)
 - Four different adverbs:
 - always/siempre; carefully/cuidadosamente; completely/completamente; frequently/frecuentemente



All Results: Average z-score by stimulus type







Hannah speaks always English.

Hannah always speaks English.

Juana habla siempre español.

Juana siempre habla español.

Hannah speaks siempre español.

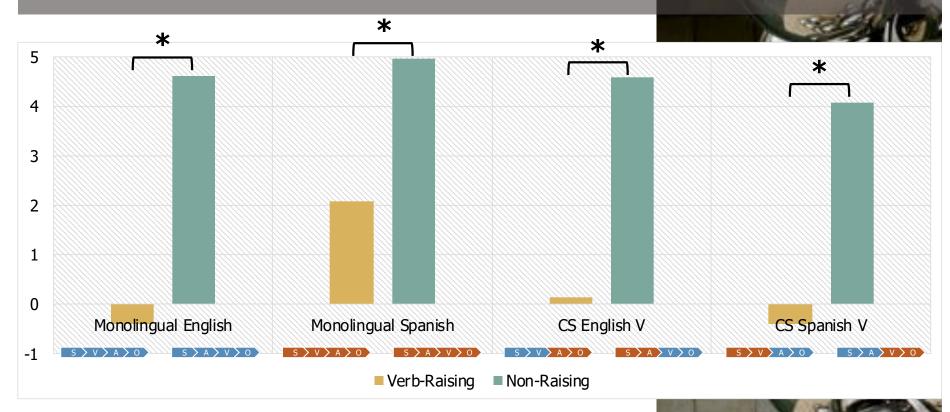
Juana siempre speaks English.

Hannah always habla español.

Juana habla always English.



Always/siempre: Average z-score by stimulus type





Frequently/frecuentemente

Sarah buys frequently tomatoes.

Sarah frequently buys tomatoes.

Margarita compra frecuentemente tomates.

Margarita frecuentemente compra tomates.

Sarah buys frecuentemente tomates.

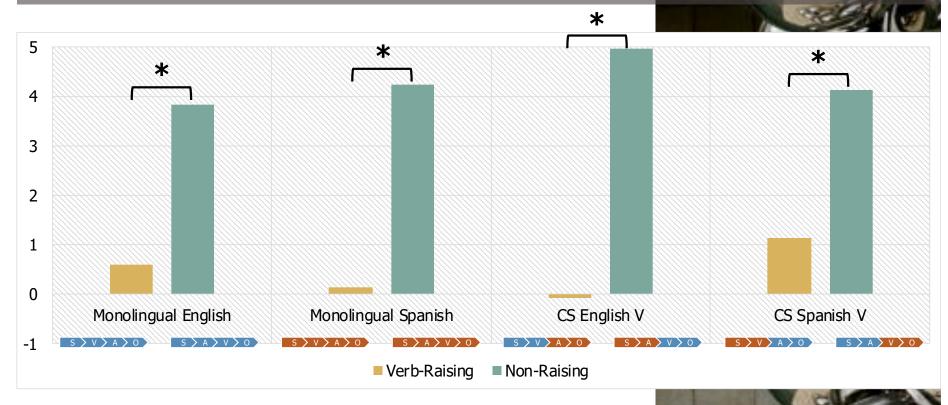
Margarita frecuentemente buys tomatoes.

Sarah frequently compra tomates.

Margarita compra frequently tomatoes.



Frequently/frecuentemente: Average z-score by stimulus type





Carefully/cuidadosamente

Henry reads carefully the instructions.

Henry carefully reads the instructions.

Antonio lee cuidadosamente las instrucciones.

Antonio cuidadosamente lee las instrucciones.

Henry reads cuidadosamente las instrucciones.

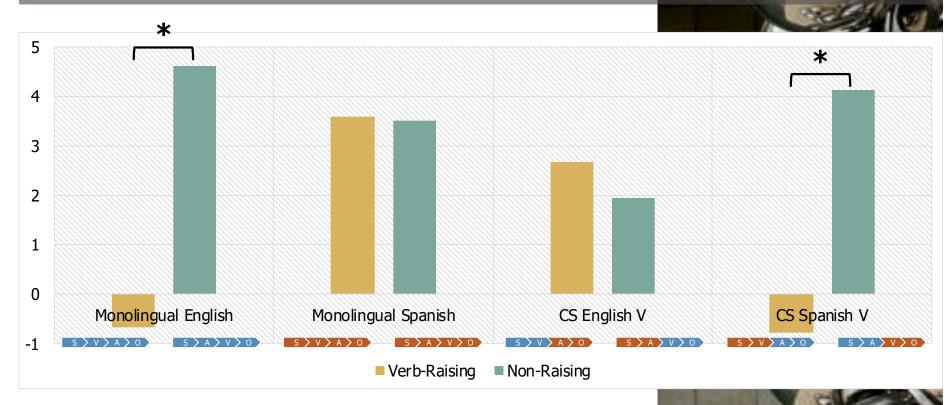
Antonio cuidadosamente reads the instructions.

Henry carefully lee las instrucciones.

Antonio lee carefully the instructions.



Carefully/cuidadosamente: Average z-score by stimulus type





Nate understands completely the homework.

Nate completely understands the homework.

José entiende completamente la tarea.

José completamente entiende la tarea.

Nate understands completamente la tarea.

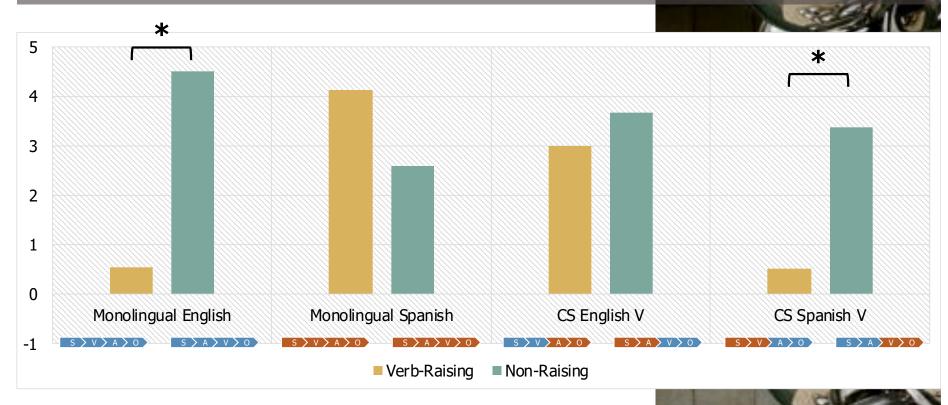
José completamente understands the homework.

Nate completely completamente la tarea.

José completamente completely the homework.



Completely/completamente: Average z-score by stimulus type





- General availability of switched non-raising follows from the syntactic literature
 - Available in Spanish or English monolingually
 - Hannah always speaks English.
 - Juana siempre habla español.
- Minimalist predictions for CS confirmed
 - Available with Spanish or English verbs
 - Juana siempre speaks English.
 - Hannah always habla español.
- Non-raising is always available



- Verb-raising also follows from the literature, in that it is allowed in Spanish and not English
 - However, availability varies lexically in Spanish
 - completamente / cuidadosamente > ? siempre > * frecuentemente
- Minimalist predictions for CS <u>not</u> confirmed
 - Spanish verb-raising was the <u>least</u> favored
 - If anything, predicted by the language of the adverb, not the verb
 - Available only with *completamente* and *cuidadosamente*



- Why were the predictions not confirmed for verb-raising?
 - Task?
 - Inclusion of control stimuli (e.g., pronoun switches, complex-sentence switches, etc.) (Koronkiewicz, 2019) suggest participants completed the task appropriately
 - Theoretical framework?
 - Matrix Language Frame (Myers-Scotton, 1993, 2002) model would similarly depend on the language of the finite verb (i.e., the matrix language)
 - No V-to-T movement?
 - Could argue that these bilinguals have non-raising as the preferred default for both English and Spanish, contra Camacho & Sánchez (2017)
 - Would still need to explain why it is possible (but not preferred) in Spanish



- Some other syntactic reason?
 - Verb adjacency to the direct object likely playing a role
 - Stadthagen-González, López, Parafita Couto & Párraga (2018) have compatible findings with post-verbal adverbs in Spanish-English CS
 - Olivia preparó rápidamente the food
 - > Olivia prepared quickly *la comida*
 - > Olivia prepared rápidamente la comida
 - > Olivia preparó quickly the food
 - "All the constituents within the domain of the [verb-complement] dependency contribute to the perceived (un)acceptability of the construction" (p. 88)
 - That is to say, it's not just V+T, but the language of the adverb *and* the direct object play a role

Future Directions



- Continued look into adjacency constraints
- Further examination of the lexical differences
 - Frequency adverbs (*siempre/frecuentemente*) seem to constrain verb raising in Spanish
- Currently collecting data from French-English bilinguals
 - Can compare current data to a "true" verb-raising language paired with non-raising English

Gracias!

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