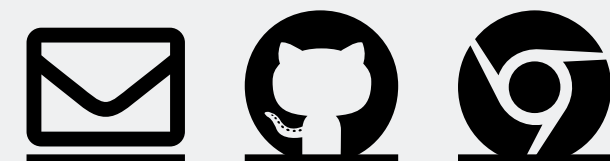


Second Language Acquisition

LG 376 — Semester 2, 2021 (Jan-May 2022)

CLASS 4: AGE AND CROSSLINGUISTIC INFLUENCES

Sakol Suethanapornkul



Outline

- Recap
- Age in L2 learning
 - Investigating ultimate attainment in L2A
- Prior knowledge in L2 learning
 - The early parts of transfer research
- Looking ahead: Week 5

The word "Recap" is centered within a large, horizontally-oriented rounded rectangle. The rectangle has a double-line border, with the inner line being slightly offset from the outer line. The text "Recap" is rendered in a bold, sans-serif font with a color gradient from pink to red.

Recap

Setting the scene...

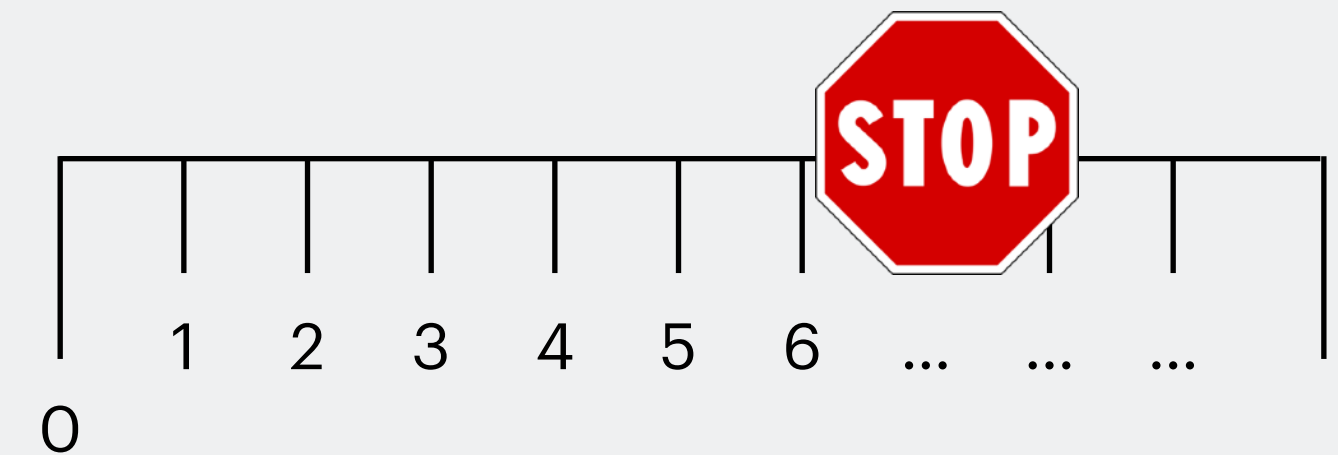
Two questions regarding age in SLA:

1. Critical/sensitive periods for L2 acquisition

- Is there a biologically determined optimal timing for Lg. learning?

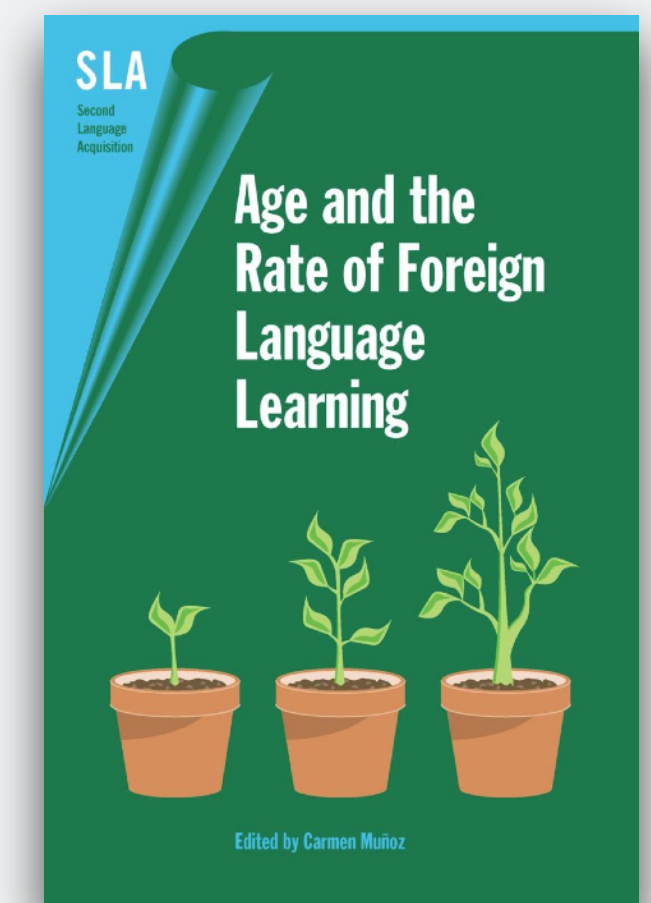
2. Ultimate linguistic success

- Is it (im-)possible for late starters to be as good as those who learn Lg. X from birth (**and are now mature speakers**)?



Are children or adults better L2 learners?

- Muñoz (2006) presents evidence of age in **foreign language (FL)** contexts (English in Catalonia), involving ~ 2,000 school-age children
 - Late starters maintained a slight advantage throughout
 - Younger children did not catch up!
- Muñoz (2014) showed that a better predictor of success in FL contexts is **quality and quantity of input**, not starting age



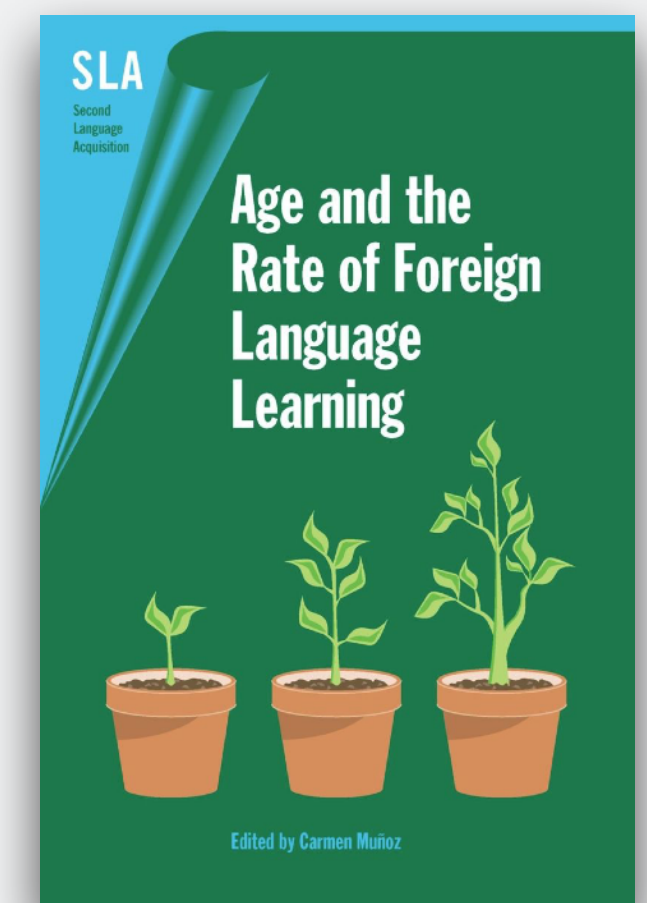
Are children or adults better L2 learners?

- Muñoz (2006) presents evidence of age in **foreign language (FL)** contexts (English in Catalonia), involving ~ 2,000 school-age children



Starting early ≠ better L2 outcomes

See Muñoz (2019) for a more recent summary

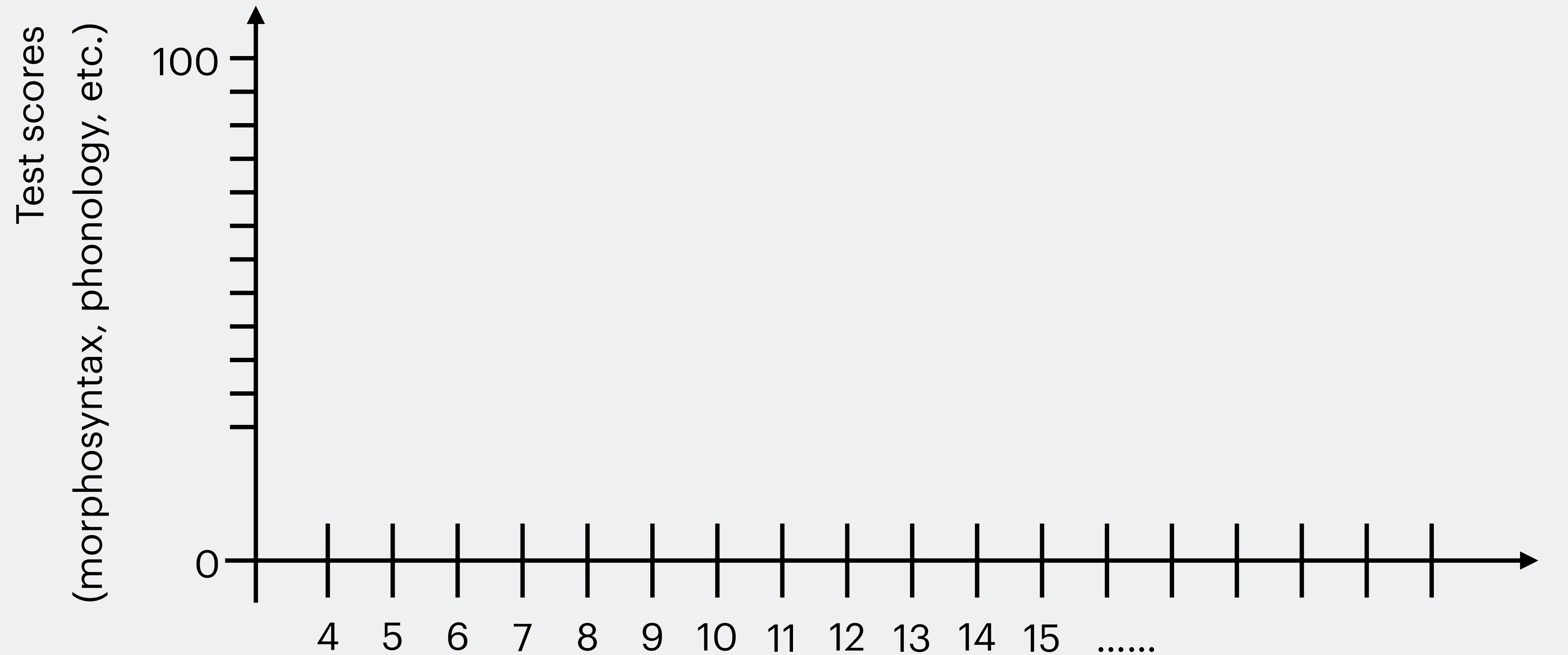


Ultimate attainment

What exactly is ultimate attainment?

- Full linguistic competence attained at the end state of L2 acquisition
- Success indistinguishable from the competence of native speakers
- Research:
 - participants in second language contexts (minimum: 5 to 10 years)*
 - **correlational** studies of age of arrival (AOA) and language scores
 - **exceptional “cases”** (or groups)

Correlational studies



Age of Arrival (AOA): Age at which a person arrives in an L2 environment

[similar to but different from age of onset]

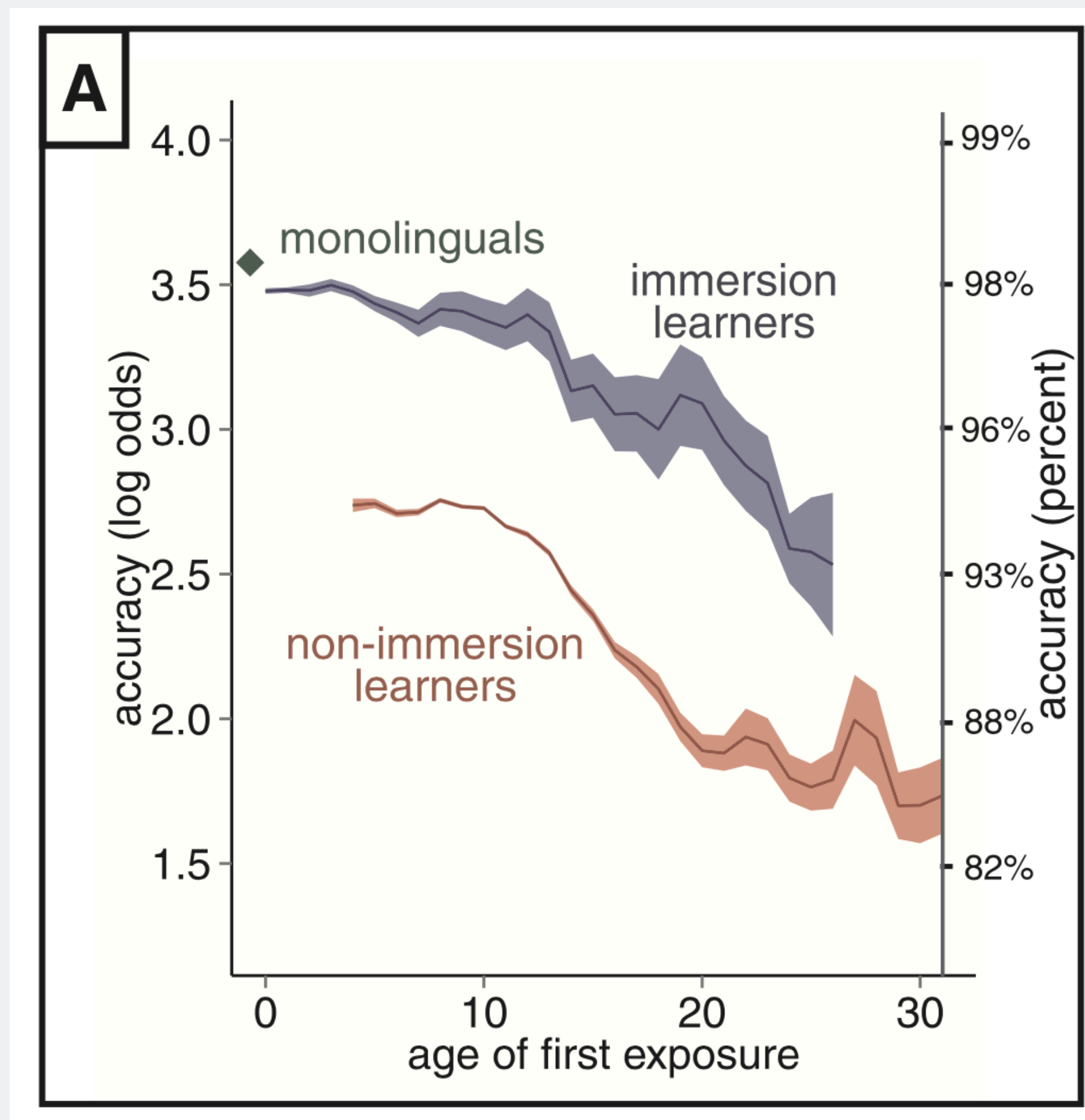
Correlational studies

- Correlational studies show a negative relationship between ages and scores
- This plus newer studies:
 - 12 years old morphosyntax*
 - 9 years old lexical idiomaticity
 - 5 years old phonology

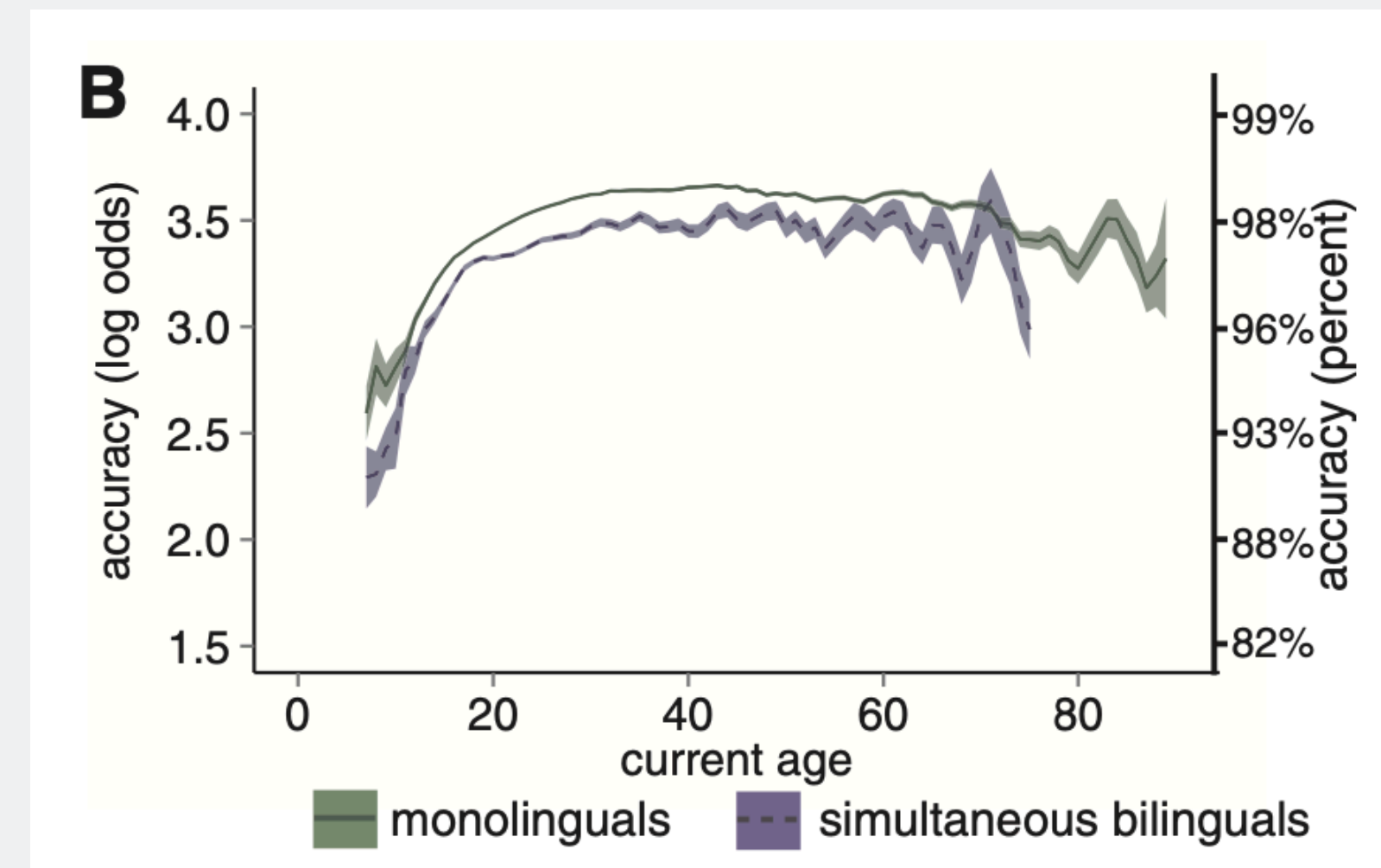


But newer studies....

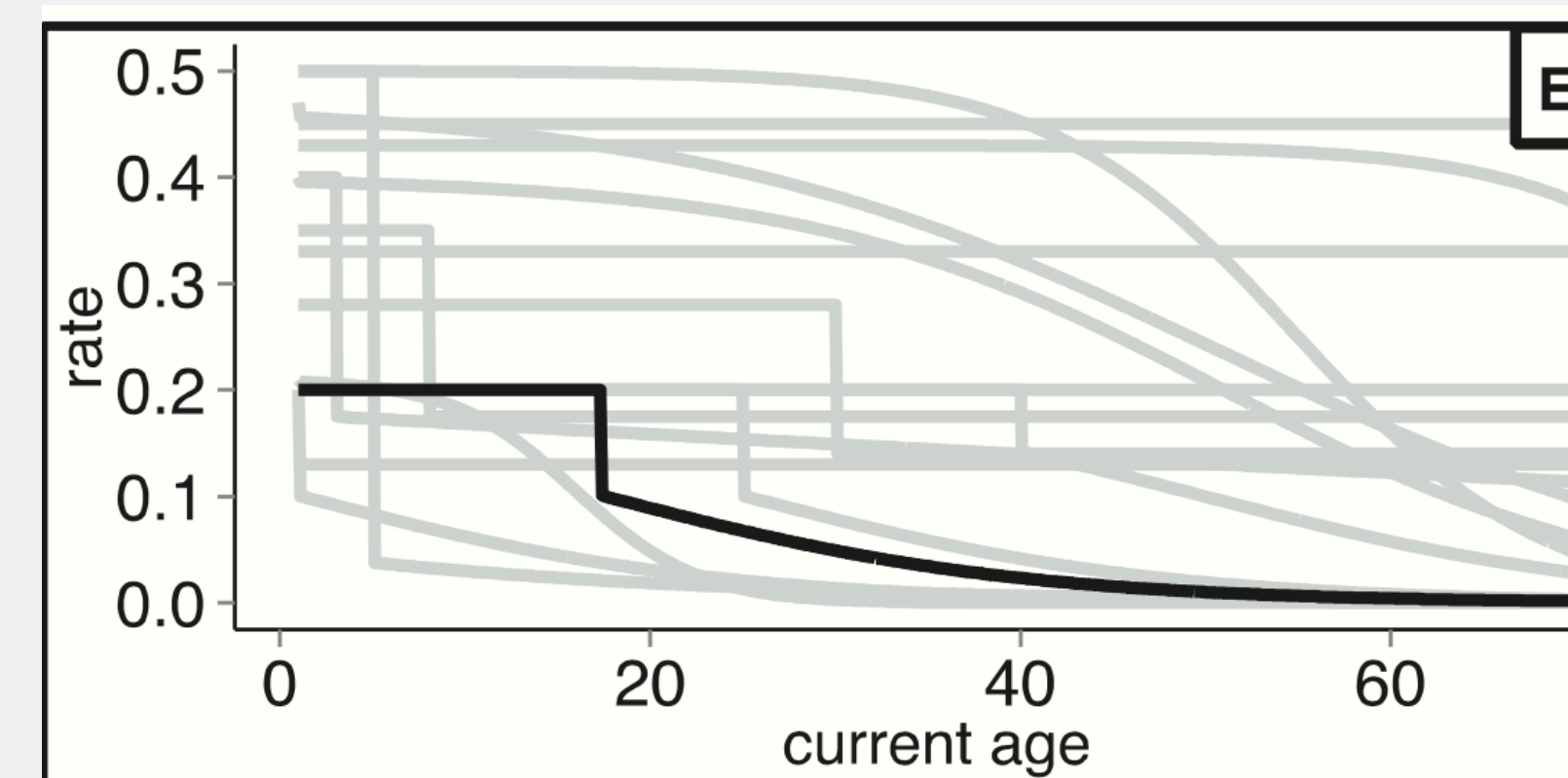
Hartshorne et al. (2018) cf. van der Silk et al. (2021)



10-12 yr.



30 years



CP = 17.4

Exceptionally advanced L2 learners

- Question: how native is really “near-native”?
 - Old wave: Ioup et al.’s (1994) study
 - New wave: Hyltenstam and colleagues from Sweden
- “Scrutinized nativelikeness”
 - subject advanced L2 learners to exhaustive and very difficult batteries of test in many different domains



Exceptionally advanced L2 learners

Abrahamsson and Hyltenstam (2009) selected 41 native-like/near-native L2 speakers of Swedish from 104 potential candidates (out of 195 participants)

- Age of onset/arrival (< 11 or > 13)
- 4-hour testing; 20 tests (results on 10 tests)
- **None of late learners** within native speaker range
- **Few early learners** have “actual” native-like competence

Exceptionally advanced L2 learners

Abrahamsson and Hyltenstam (2009):

Instrument	AO 1–11 (<i>n</i> = 31)	AO 13–19 (<i>n</i> = 10)	χ^2	<i>p</i>
1. VOT production	23 (74%)	4 (40%)	3.931	<.05
2. VOT perception	22 (71%)	2 (20%)	8.092	<.01
3. Babble noise test	21 (68%)	3 (30%)	4.437	<.05
4. White noise test	15 (48%)	3 (30%)	1.038	>.1, ns
5. GJT (auditory)	18 (58%)	4 (40%)	0.992	>.1, ns
6. GJT (in writing)	19 (65%)	5 (50%)	0.397	>.1, ns
7. RT (aud. GJT)	29 (94%)	6 (60%)	6.812	<.01
8. Cloze test	16 (52%)	5 (50%)	0.008	>.1, ns
9. Idioms	18 (58%)	2 (20%)	4.385	<.05
10. Proverbs	5 (16%)	1 (10%)	0.227	>.1, ns

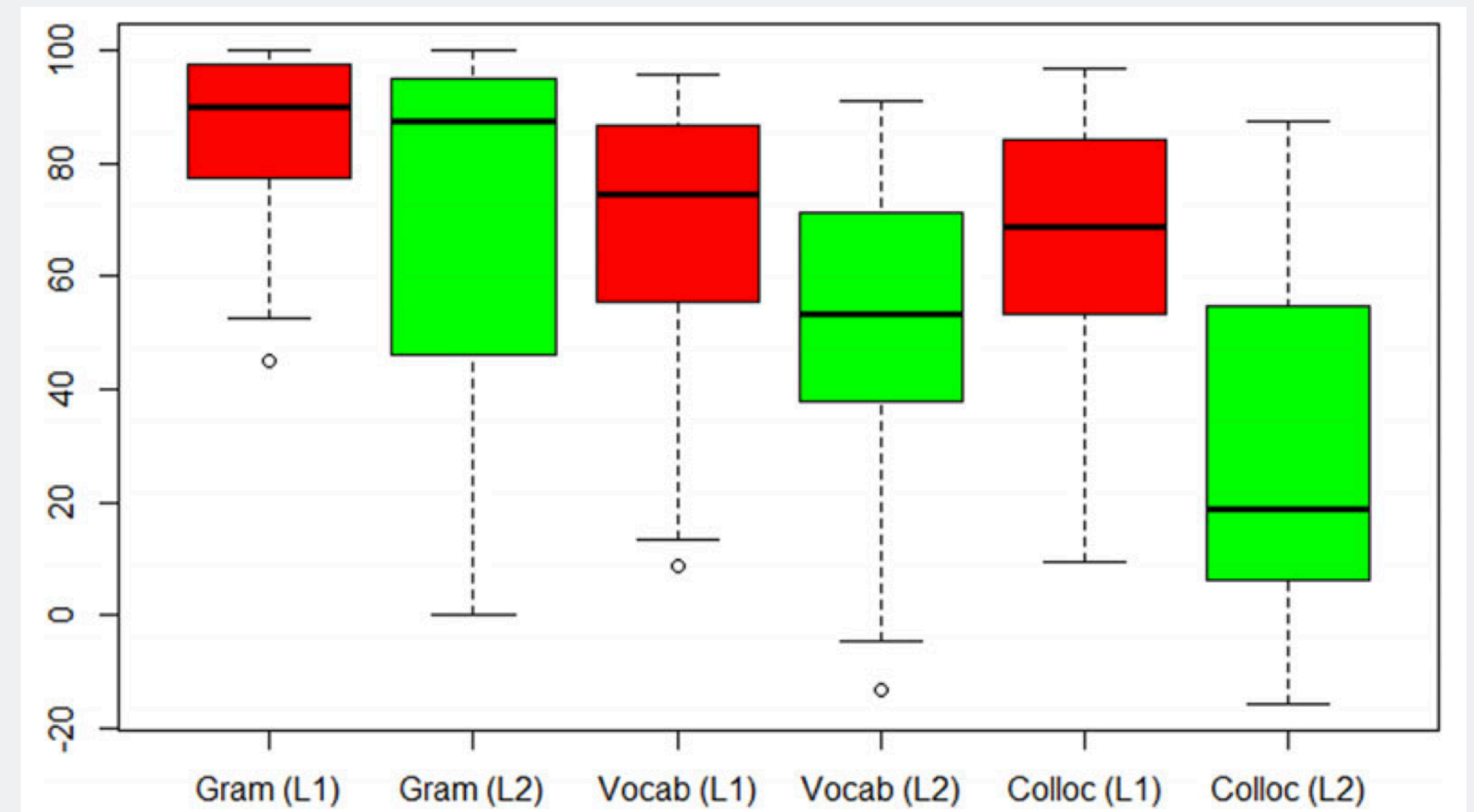
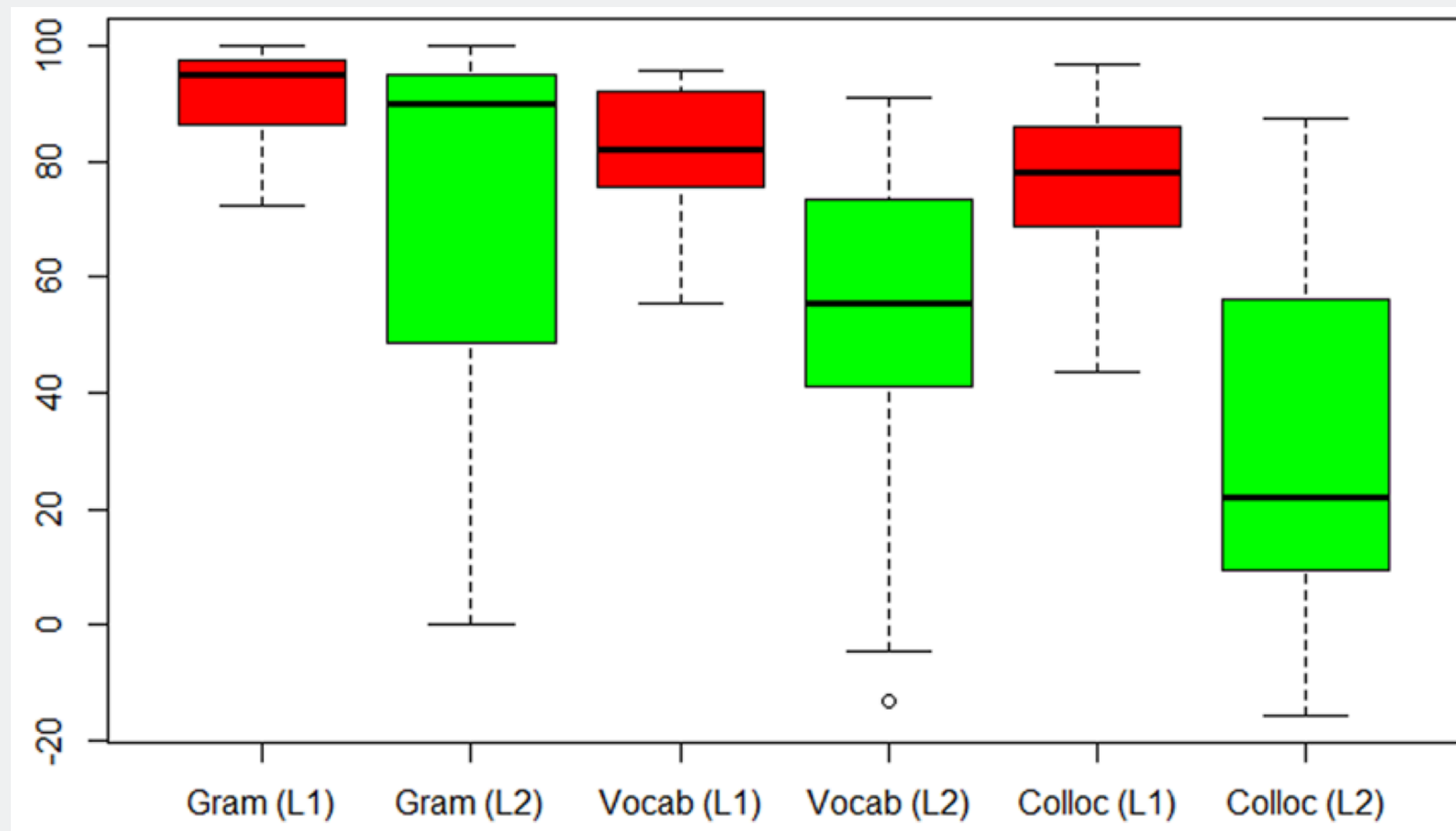
Exceptionally advanced L2 learners

Abrahamsson and Hyltenstam (2009):

Our primary interpretation of the results is that nativelylike ultimate attainment of a second language is, in principle, never attained by adult learners and, furthermore, is much less common among child learners than has previously been assumed (emphasis added)

On native speakers...

Native English-speaking adults in L2 research are often highly educated:



On research into age and L2 learning



Flege (2009, pp. 183–184) on age and L2 phonological acquisition:

few if any researchers believe that AOA is itself responsible for variation in L2 learning...[but] is related to a wide range of variables that have been hypothesised to affect L2 learning directly

Age as an index of:

state of cognitive development

L1 proficiency

frequency & kind of L2 input

state of L1 development

language dominance



On research into age and L2 learning

Many researchers (not all) work within generative linguistic theories

- Fundamental properties (i.e., UG) of human language 'hard-wired' in infants' brain
- Language-specific properties triggered by input
- Children and adults use different mechanisms
 - Bley-Vroman: *Fundamental Difference* Hypothesis
 - DeKeyser: Implicit learning in children vs. explicit learning in adults



Crosslinguistic influences

Setting the scene...

- All L2 users have knowledge of an L1 (and knowledge of other Ls)
 - older children: Thai → English
 - teenagers & adults Thai → English → Japanese
- Basic question:
 - How is the development of a new L2 influenced by knowledge and capabilities available through previously learned Ls?

Area: ✓ Transfer ✓ Crosslinguistic influences ✗ Interference

L1-L2 differences and similarities



Robert Lado

- **Contrastive Analysis Hypothesis (CAH)**
 - Analyzing L1-L2 differences to predict problematic areas
 - L1-L2 difference = difficulty
 - L1-L2 similarity = L2 easiness
 - (based on behaviorist idea of habit formation)

L1-L2 differences and similarities



Robert Lado

- Contrastive Analysis Hypothesis (CAH)

English

The dog bought

S V

The dog bought

S V

Spanish

El perro compró la flor

S V O

El perro la compró

S O V

- CAH predicts

L1 English → L2 Spanish

*El perro compró la

L1 Spanish → L2 English

*The dog it bought

L1-L2 differences and similarities



Robert Lado

- Problems for CAH
 - Similarities do not always help (Swedish-Turkish negation)
 - Differences do not always cause errors (word order)
 - Difficulties can be asymmetrical (Spanish vs. English pronouns)

Interlingual identifications

- By late 1980s, researchers came to realize:
 - Transfer → psychological perception of similarities & differences
 - Andersen's (1983) *Transfer to Somewhere* principle
 - Not only L1 but also L2 must have features that invite (mis-)perception of similarities
 - **Interlingual identification**
 - The judgment that something in the native language and something in the target language are similar

Interlingual identifications

- Judgment can occur at two levels
 - **Unconscious:** evidentiality in Quechua-Spanish speakers
 - Encode evidentiality in past perfect tense of Spanish verbs
 - **Conscious:** strategic English-French transfer of Phillips
 - “It was the nearest I could get to something that might be right”

Question: Can you recall any experience that “shows” this type of judgment?

Lesson #4

- Transfer isn't just about **surface** forms in L1 and Ln
 - Don't presume that learning will be easy/difficult because L1 and L2 share "similar" forms
 - Pointing "similar" forms to students may not always lead to learning!
- Transfer is a psychological process

Besides the L1s: Interlanguage

- L1/L2 common errors in English
 - *wented, goed*
 - *the car was crashed*
- Similar mistakes in L2 learners from different L1 backgrounds)
- **Interlanguage** (Selinker, 1972)
 - *Transitional language system constructed by learner at each point in development toward TL*



Besides the L1s: Developmental sequences

- **Sequences** = stages that L2 learners pass through to competence

Negation

Stage 1:

Negative element
before verbs

No bicycle

I no like it

Not my friend

Stage 2:

No/not alternating
with 'don't'

He don't like it

I don't can sing

Stage 3:

Negative element may
be after auxiliaries

You can not go there

She don't like rice

Stage 4:

'Do' marked for tense,
person, number

It doesn't work

I didn't went there

Besides the L1s: Developmental sequences

- **Sequences** = stages that L2 learners pass through to competence

Question

Stage 1:	Stage 2:	Stage 3:	Stage 4:	Stage 5:	Stage 6:
Single words, formulas	Declarative word order	Fronting	Inversion in <i>wh</i> -copula	Inversion in <i>wh</i> - questions	Complex questions
<i>Dog?</i> <i>What's that?</i>	<i>The boys throw the shoes?</i>	<i>Where the children are playing?</i>	<i>Where is the sun?</i> <i>Is there a fish in the water?</i>	<i>What's the boy doing?</i>	

Next week...

- **Topic**: Crosslinguistic influences (continued)
 - How does transfer take place?
 - Which language is the source of transfer?
- **Reading**:
 - USLA (3.4, 3.6, 3.10, and 3.11)

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