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## Sensitivity to individual grammars in sentence processing by Armenian-Russian-English trilinguals

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Abstract POSTER10

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# Introduction

### This study investigates sentence processing by a multilingual mind:

- native language (L1-Armenian)
- non-native languages (L2-Russian and L3-English)

## **Research Questions:**

- Is native and non-native processing is sensitive to certain linguistic prompts?
- Do the participants react to a given linguistic prompt differently in their native and non-native languages?

## **Research Target:**

- social conventions triggered by lexical information (Felser, 2019; Clahsen & Felser 2018, 2006)
- sensitivity to syntactic prompts (Dekydtspotter et al., 2019; Sokolova & Slabakova 2019)

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## **Methods** Self-paced reading experiment: Linger

Condition	Favoring HA		Favoring LA		Neutral
perception	Maria <b>saw</b> <i>the granddaughter of the woman</i> that was <u>playing</u> with the kitten.		of t	_	-
non- perception			grai	ndmother of the girl that	The police <b>arrested</b> <i>the sister of the neighbor</i> that was <u>participating in a</u> <u>social project</u> .
Total number of		Tested in L1-		Tested in L2-Russian	Tested in L3-English
participants		Armenain			
N =	= 36	N = 12		N = 9	N = 15
C-test score		99%		49%	67%
(proficiency in the		range 98%–100%	,	range 34%-64%	range 42%–90%
language of testing)					
Age		41		37	47
(at the time of		range 34–57		range 32–44	range 33–76
testing)					
Daily use of		67% of time,		74% of time,	30% of time,
Armenian		range 50%–90%		range 50%–90%	range 25%-50%

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## Results

Condition	L1 Armenian	L2 Russian	L3 English
Matrix verb (perception)	HA of RC (71%) <b>PercVerb</b> , <i>p</i> < .05	HA of RC (71%) <b>no effect PercVerb</b>	HA of RC (47%) <b>PercVerb (53/40)</b> , <i>p</i> < .05
Matrix verb (perception)	faster RT mid-sentence PercVerb, p < .05	slower RT mid-sentence	slower RT mid-sentence
Matrix verb (perception)	slow RespTime in LA bias, <i>p</i> < .05	no effect on RespTime	no effect on RespTime
Social bias	within the range of HA, $p < .05$	within the range of HA, $p < .05$	within the range of LA, p < .05
Social bias	slower RT mid-sentence in LA bias, <i>p</i> < .05	slower RT mid-sentence in LA bias, <i>p</i> < .05	slower RT mid-sentence in LA bias, <i>p</i> < .05
Social bias	slow RespTime with PercVerb, p < .05	no effect on RespTime	no effect on RespTime

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# Conclusion

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### Multilingual parser is sensitive to individual grammars

- Perception verb favors HA of the RC in L1, L2 and L3
- The eventive complement is the first parsing hypothesis in L1, L2 and L3
- Perception verb influences sentence processing differently in Armenian, Russian and English

# **Processing in L1, L2 or L3 is governed similar psycholinguistic mechanisms**

- Non-syntactic information is considered in the course of sentence processing in L1, L2 and L3
- Non-syntactic information does **not** override the effect of syntactic information on RC resolution in either L1, L2 and L3

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