

Individual Differences In Learning Foreign Language Words Miri Kruchkovsky & Tamar Degani

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What affects our ability to learn foreign language words?

With globalization processes, the need to learn a foreign language becomes relevant to more and more individuals. For some, the learning process may be more challenging than for others. Previous research has indicated that both learner and word characteristics might account for such differences in learning difficulty.

Word characteristics

- Some word-types are easier to learn than others (e.g., concrete words, de Groot & van Hell, 2005, for review see Degani & Tokowicz, 2010).
- Critically, translation-ambiguous words create difficulty in learning over translation-unambiguous words (e.g., Degani & Tokowicz, 2010)

Learner characteristics

- Phonological Short Term Memory (Phonological STM) as well as Working Memory (WM) modulate learning of words and grammar of an artificial language (Martin & Ellis, 2012).
- Enhanced abilities of visual Statistical Learning (SL) are linked to improved visual word recognition in a second language (Frost et al., 2013).

The Current Study

Does the mapping across languages influence learning of foreign language words?

Do individual differences in cognitive abilities make a difference?

Word characteristics

Four different word types were included:

	DT	ST		JT	SP
Arabic Lexical	ز هر ة	شوكة		کسر	رمان
Form					
Meaning			L	111	
Representation				2 3 4	
Hebrew Lexical	פרח	מזלנ	קוע	שרר	מוו
Form			1 '1'		''-

- Different Translation (DT condition): unambiguous Arabic words with a single translation in Hebrew
- Shared Translation (ST condition): ambiguous Arabic words with two Hebrew translations, each corresponding to a different meaning
- Joint Translation (JT condition): ambiguous Arabic words with a single translation in Hebrew that encompasses the same two meanings
- Split Translation (SPT condition): ambiguous Hebrew words with two Arabic translations, each corresponding to a different meaning

Learner characteristics

Four different individual difference measures were collected:

- **Phonological STM:** Non Word Repetition (e.g., Yoo & Kaushanskaya, 2012)
- Verbal WM: Number-Letter Sequencing (e.g., Crowe, 2000)
- **SL abilities:** Auditory Statistical Learning (Frost et al., 2013)
- Hebrew (L1) Proficiency: Phonemic and Semantic Fluency (Kave, 2005)

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L2 to L1 Translation Production Accuracy Over Session 3+4

