

ELF research group



A quantitative investigation of alignment processes in English as a lingua franca (ELF) interactions

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Motivation & research questions

Alignment in second language has mostly been explored in experimental or otherwise constrained settings (Jackson 2018). The present study complements the findings from such studies by investigating alignment in a corpus of naturally occurring ELF interactions, and it addressess the following research questions:

1. Does the occurrence of one alternative increase the likelihood of occurrence of the same alternative?

2. Which other variables influence this correlation:

a) lemma similarity (cf. lexical boost, Pickering & Branigan 1998; Scheepers, Raffray & Myachykov 2017)
b) form similarity

c) speaker

d) textual distance

Data & method

- Dataset: Vienna-Oxford International Corpus of English (VOICE)
- 1 million words, ca. 50 different L1 backgrounds
- Speakers seen as users in their own right (Seidlhofer 2011)

Method:

- Syntactic and lexical alignment conceptualized as a correlation between two alternatives (e.g. dative alternation or *what* vs *which* respectively); GLM analysis
- Similarity measures: Jaccard similarity index & Pearson's correlation coefficient; ngram - similarity

Lexical alignment

H1: The amount of shared vocabulary increases during the conversation.H2: As speakers negotiate and develop shared lexical repertoires, lexical diversity decreases.

3. Do speakers in ELF settings increasingly use more similar lexical items and syntactic structures as the conversation unfolds?

Preliminary findings: correlations 0: double object dative; OF-genitive, *what* 1: prepositional dative, S-genitive, *which*





allemation		
	(same) SPEAKER	0.01838 *
Genitive	(same) POSSESSUM LEMMA	0.000382 ***
alternation		
what vs which	(same) head of NP	0.005956 **
	(same) SPEAKER	0.000187 ***

Conclusion

✓ Alignment effects seem to be weaker than in comparable L1 studies.

- Still, it is possible to observe correlations not only between syntactic, but also between lexical alternations.
- Lexical items used in the relevant phrase increase the probability of alignment.
- ✓ No significant changes in lexical similarity or lexical diversity.

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References:

Jackson, Carrie N. 2018. "Second language structural priming: A critical review and directions for future research." Second Language Research 34 (4), 539– 552.

Pickering, Martin J.; Branigan, Holly P. 1998. "The representation of verbs: Evidence from syntactic priming in language production". Journal of Memory and Language 39, 633-651.

Scheepers, Cristoph; Raffray, Claudine N.; Myachykov, Andriy. 2017. "The lexical boost effect is not diagnostic of lexically-specific syntactic representations". Journal of Memory and Language 95, 102-115.

Seidlhofer, Barbara. 2011. Understanding English as a lingua franca. Oxford: Oxford University Press.