MOTHER-FATHER OF FATHER-MOTHER?

Compounds with variable order in RSL and STS

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Introduction

Compounds, words with more than one lexical morpheme, are an important morphological phenomenon that is almost universal [1]. Signed languages are no exception and make use of compounds extensively [2,3,4].

A key criterion in the definition of compounds is that **the order of the elements is fixed** [1], which has also been argued for compounds across researched signed languages [2].

Fixed order

compounds
applesauce, ballpark, catfish

binomials
aches & pains, black & white, come & go

CO-COMPOUNDS
"apple-orange-banana" = 'fruit'

phrases
apple & banana, Barb & Ceil, catch & throw

Phrase

Free order

Co-compounds

Co-compounds have coordinated and "equal" parts, and **the whole refers to a hyperonym**/ grouping of the parts (e.g. "father-mother" = 'parents'). Co-compounds are observed crosslinguistically in spoken languages, but have also been noted for signed languages [5,6,7].

Interestingly, in most languages, co-compounds have a fixed order of elements, but there are some exceptions, like Lezgian and Yakut [7].

Research aims

Methodology

Data & sample

Noting that "father-mother" = 'parents' is a cross-linguistically common co-compound form, we note that combining the signs for FATHER and MOTHER to express the meaning 'parents' exists in our two researched languages: Russian SL (RSL) and Swedish SL (STS).

This compound is found in several unrelated signed languages, some of which appear to use a fixed order (e.g. ASL & BSL) while others do not (e.g. Czech SL) [5,8]. In general, co-compounds are found across signed languages, sometimes with fixed ordering [2, 9]. We find that **the co-compound denoting 'parents' in RSL and STS shows variable ordering of elements**, with **variation within and across signers in the choice of form**.

>>> In this study we investigate possible factors influencing this variation.

Word

Two unrelated signed languages: Russian SL (RSL) and Swedish SL (STS).

For **RSL**, we use a database of lexical variation that contains ≈19,000 signs for ≈100 concepts produced by more than 250 RSL signers from different regions [10]:

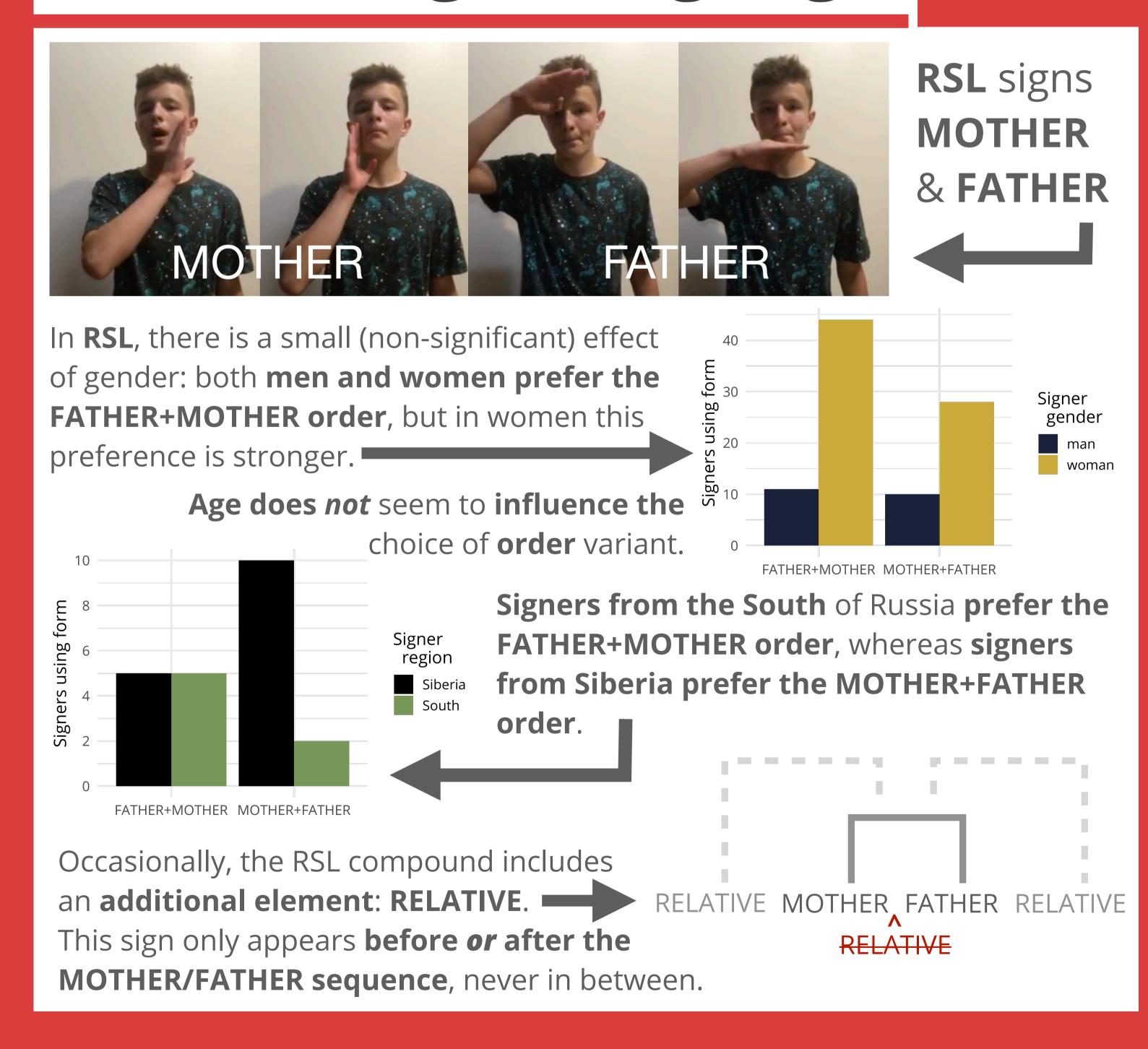
→ 97 occurrences of 'parents' of either order.

For **STS**, we used data from the dictionary (images) & corpus (usage) [11,12]. The STS corpus consists of ≈90,000 sign tokens: → **167 occurrences** of 'parents' of either order.

Russian Sign Language

Results

Swedish Sign Language

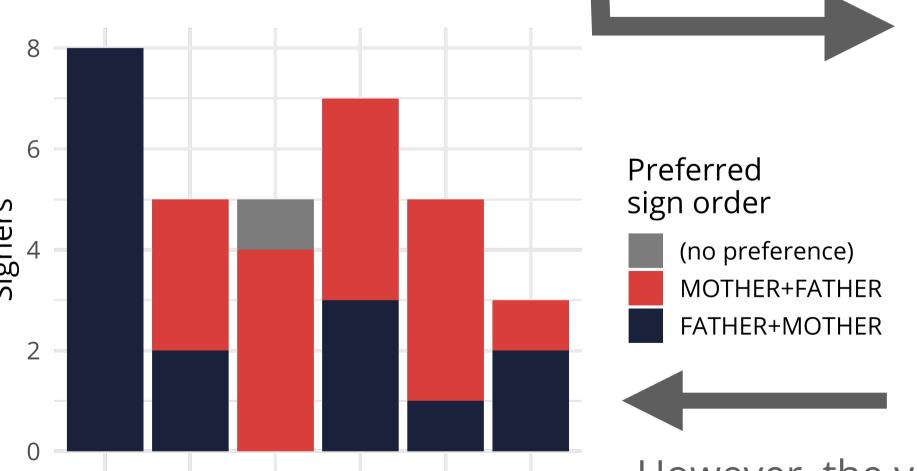


STS signs
MOTHER
& FATHER



In **STS**, we observe that **whereas most signers** (n=27) are **only attested using a single order**, **some** (n=6) **use both orders**.

Men prefer the MOTHER+FATHER order, whereas women prefer the FATHER+MOTHER order. The difference in distribution between men and women is non-significant (p≈.051).



Signer gender man woman

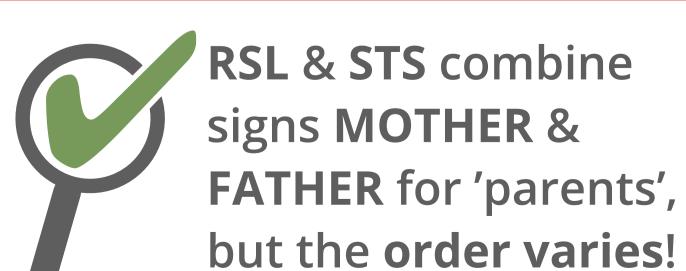
FATHER+MOTHER MOTHER+FATHER

With regard to age, signers in the youngest age group (20–29) have a preference for FATHER+MOTHER,

whereas older age groupsshow more variation.

However, the youngest age group is heavily skewed towards women in the STS corpus.

Conclusion & Outlook



Age, region & gender may influence form, but there is variation even within signers!

20-29 30-39 40-49 50-59 60-69 70-100

Age group



Needed: More crosslinguistic research on co-compounds & ordering across SLs!

[1] Lieber, Rochelle & Pavol Štekauer (eds.). 2011. The Oxford handbook of compounding. Oxford: Oxford University Press. [2] Santoro, Mirko. 2018. Compounds in sign languages: The case of Italian and French Sign Languages. Proceedings of the 11th High Desert E. Johnson. 1986. American Sign Language compound formation processes, lexicalization, and phonological remnants. Natural Language and Linguistic Theory 4. 445–513. https://doi.org/10.1007/BF00134470. [4] Lepic, Ryan. 2015. The Great ASL Compound Hoax. In A. Healey, R. Napoleão de Souza, P. Pešková & M. Allen (eds.), Proceedings of the 11th High Desert Linguistics Society Conference, vol. 11, 227–250. Albuquerque, NM: University of New Mexico. [5] Richterová, Klára, Alena Macurová & Radka Nováková. 2016. Kinship terminology in Czech Sign Languages. In U. Zeshan & K. Sagara (eds.), Semantic Fields in Sign Languages, 163–208. Boston, MA/Berlin & Lancaster: De Gruyter Mouton & Ishara Press. https://doi.org/10.1515/9781501503429-005. [6] Klima, Edward S. & Ursula Bellugi. 1979. The signs of language. Cambridge, MA: Harvard University Press. [7] Wälchli, Bernhard. 2005. Co-compounds and natural coordination. Oxford: Oxford University Press. https://doi.org/10.1093/acprof:oso/9780199276219.001.0001. [8] Vercellotti, Mary Lou & David R. Mortensen. 2012. A classification of compounds in American Sign Language: an evaluation of the Bisetto and Scalise framework. Morphology 22(4). 545–579. https://doi.org/10.1007/s11525-012-9205-1. [9] Meir, Irit, Mark Aronoff, Wendy Sandler & Carol Padden. 2004. Sign languages and compounding. In S. Scalise & I. Vogel (eds.), Cross-disciplinary issues in compounding, 301–322. Amsterdam/Philadelphia, PA: John Benjamins. [10] RSL Lexical Database. 2022. https://cs. https://cs