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

binomials compounds applesauce, ballpark, catfish 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

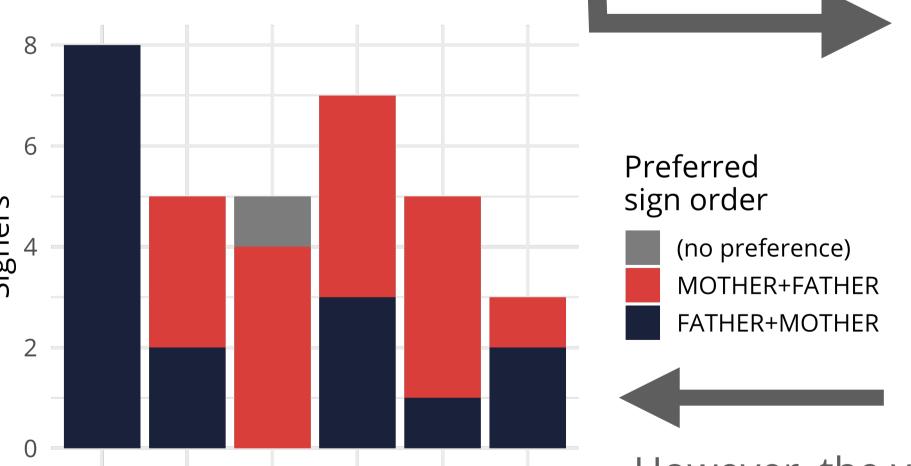
RSL signs **MOTHER** & FATHER In **RSL**, there is a small (non-significant) effect of gender: both men and women prefer the FATHER+MOTHER order, but in women this preference is stronger. Age does not seem to influence the choice of order variant. Signers from the South of Russia prefer the FATHER+MOTHER order, whereas signers from Siberia prefer the MOTHER+FATHER order. FATHER+MOTHER MOTHER+FATHER Occasionally, the RSL compound includes This sign only appears before or after the **RELATIVE** MOTHER/FATHER sequence, never in between.

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).



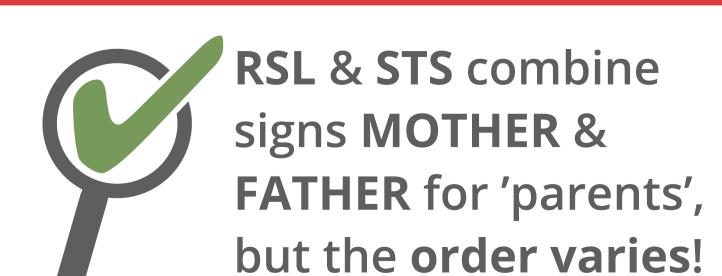
Signer

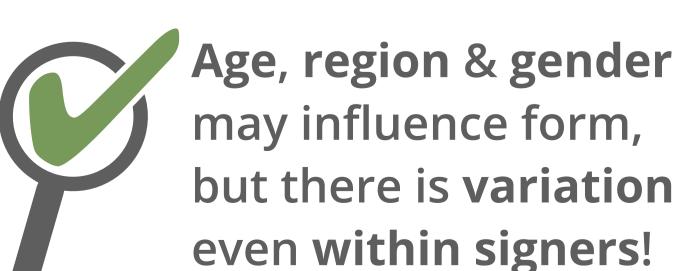
With regard to age, **signers** in the youngest age group (20–29) have a preference for FATHER+MOTHER, whereas older age groups

show more variation.

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

Conclusion & Outlook





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

Age group



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

antoro, Mirko. 2018. Compounds in sign languages: The case of Italian and French Sign Language. Paris: EHESS (PhD dissertation). [3] Liddell, Scott K. & Robert E. Johnson. 1986. American Sign Language compound formation process