

Approaching the competition between strategies in Uralic subordination

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Subordination and (non-)finiteness

Subordination: main clause + **subordinate clause** (dependency)

- relative clause *Have you met the woman [who wrote this book]?*
- complement clause *Did you really think [that she could win]?*
- adverbial clause I did not go to the party [because Jessie was there].

Finiteness: prototypical main-clause forms (finite) vs. deranked forms (non-finite)

• participles

Non-finites:

• nominalizations, infinitives

+ multifunctional non-finites

• converbs

Relative clauses

Finite (relative pronoun + finite form): Estonian (Erelt 2003)

mehed,	kellele	te	maja	müüsite		
man.PL	who.SG.ILL	2PL	house.ACC	sell.PST.2PL		
'the men to whom you sold the house'						

Non-finite (participle): Meadow Mari (Brykina & Aralova 2012)

Saša-nkošt-mopölemməj-ənpört-emSasha-GENenter-PTCP.PSTroomI-GENhouse-POSS.1SG'The room which Sasha entered is my home.'

Complement clauses

Finite (complementizer + finite form): Finnish

Tiedä-n,ettähäntul-ieilenknow.PRS-1SGthat3SGcome-PST.3SGyesterday'I know that he came yesterday.'

Non-finite (nominalization): Udmurt (Beljaev 2012)

Montod-iš'koso-lêš'tolonlêkt-êl-em-z-e1SGknow-PRSthat-GENyesterdaycome-ITER-NZR-3-ACC'I know that he came yesterday.'

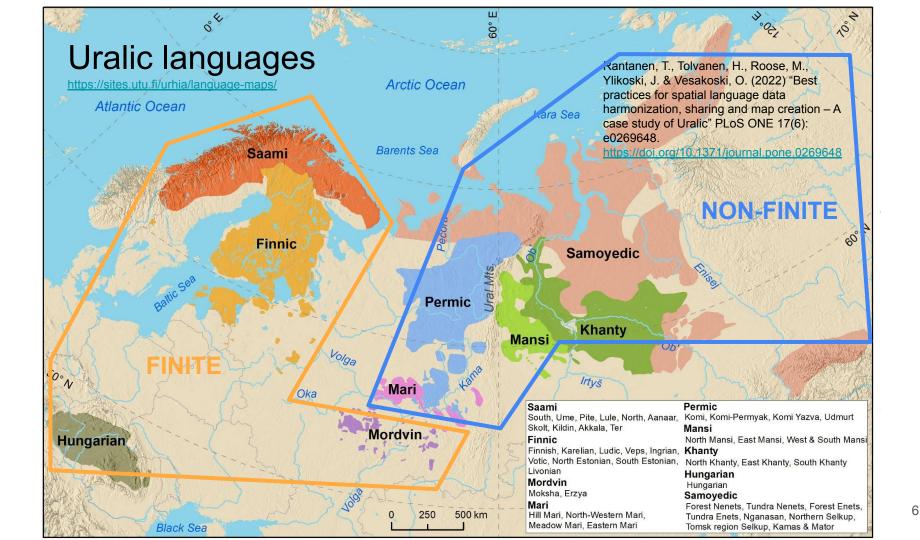
Adverbial clauses

Finite (conjunction + finite form): Hungarian (Kenesei et al. 1998)

AmikorAnnaolvasott,PéteraludtwhenAnnaread.PSTPeterslept'While Anna was reading, Peter was sleeping.'

Non-finite (action nominal + case): Tundra Nenets (Nikolaeva 2014)

xasawa-n'ixæ-qm'a-xəd°m'aq-naqm'uy°wercory°-qman-GEN.1SGgo-PERF.AN-ABLtent-GEN.1PLinsidebecome.empty-REFL.3SG'After my husband left, it has become empty in our tent.'



(Non-)finites in Uralic subordination

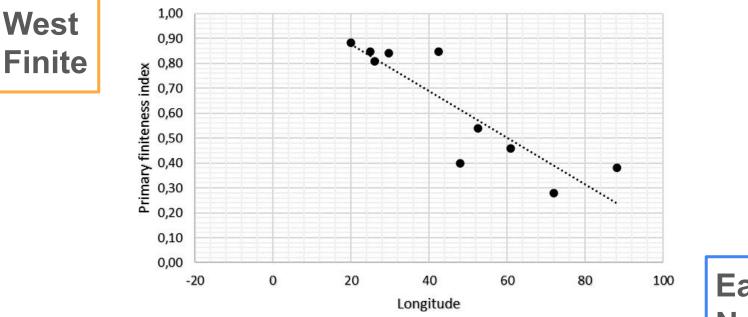
É. Kiss (2022):

• Uralic languages + Indo-European languages \rightarrow finite subordination

Shagal, Nichols, and Wahlström (in prep.):

- 50 languages in Northern Eurasia 10 of them Uralic
- 26 contexts of clause combining: coordination and (co-)subordination
- primary strategy in each context: finite vs. non-finite
- number of contexts in a language with finite primary strategies / 26 contexts
- finiteness index from 0 to 1 for each language

(Non-)finites in clause combining in Uralic





(Non-)finites in clause combining in Northern Eurasia

1,00 West • 0,90 Finite 0,80 Primary finiteness index . 0,70 0,60 0,50 0,40 : 0,30 0,20 0,10 0,00 20 80 -20 40 60 100 120 140 160 180 0 Longitude

East Non-Finite

Clause combining contexts and (non-)finiteness

The Subordination Deranking Hierarchy (Cristofaro 2003: 229)

Deranked (≈ Non-finite)

Phasals, Modals > Desideratives, Manipulatives, Purpose > Perception > Before, After, When, A relativization, S relativization > Reality condition, Reason, O relativization > Knowledge, Propositional attitude, Utterance, Indir. Object & Oblique relativization Balanced (~ Finite)

Finnish: fairly finite (0.85), but...

Phasal: non-finite strategy (infinitive)

a. *Alo-i-n* [*luke-a*]. start-PST-1SG read-INF₁ 'I started to read.'

b. Aloit-i-n [luke-ma-an].
start-PST-1SG read-INF₂-ILL
'I started to read.'

Tundra Nenets: fairly non-finite (0.28), but...

Propositional attitude: finite strategy (asyndetic)

s'ir'om'a-kənt°to°-dəm-c'°,DPtent-DAT.2SGcome-1SG-PAST $ma-dəm-c'^{\circ}$ [xan'ena-r°to-waki°]say-1SG-PASThunter-2SGcome-PROB.PAST'I came to your tent on purpose, I thought your hunter had arrived.'(Nikolaeva 2014: 284)

But what if a context allows for both strategies?

Example: Relative clauses (Shagal 2023)

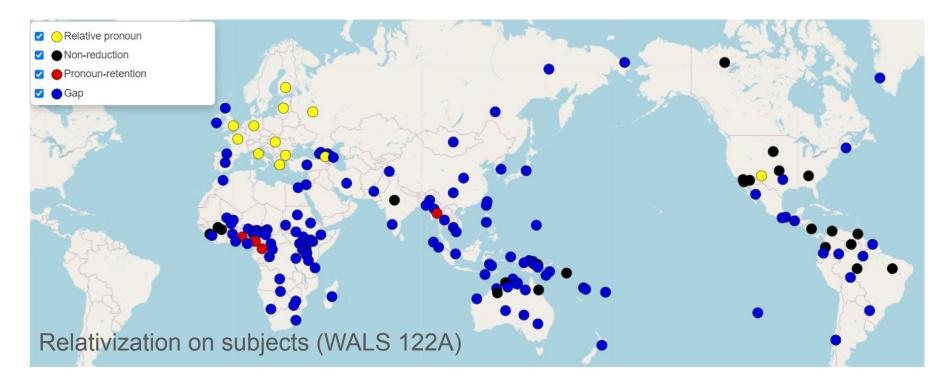
Finite relative clauses: attested in (almost) all of the Uralic languages

Estonian (Erelt 2003)

mehed,	kellele	te	maja	müüsite		
man.PL	who.SG.ILL	2PL	house.ACC	sell.PST.2PL		
'the men to whom you sold the house'						

- Relative/interrogative syncretism; Proto-Uralic *m3 'what' and *k3 'who'
- Developed under the influence of Indo-European languages (cf. Comrie 1998)

Finite relative clauses



Non-finite relative clauses

Participial relative clauses: attested in (almost) all of the Uralic languages

Meadow Mari (Brykina & Aralova 2012)

Saša-nkošt-mopölemməj-ənpört-emSasha-GENenter-PTCP.PSTroomI-GENhouse-POSS.1SG'The room which Sasha entered is my home.'

Finnish

Annatämätaka-rivi-ssäistu-va-lletytö-llegive.IMPthisback-row-INEsit-PTCP.PRS.ACT-ALLgirl-ALL'Give this to the girl sitting in the back row.'

Finite vs. non-finite relative clauses

Two types of Uralic languages:

- **Broad** competition between finite and non-finite relative clauses
- Narrow competition between finite and non-finite relative clauses

Accessibility Hierarchy (Keenan & Comrie 1977)

Subject > Direct Object > Indirect Object > Oblique > Possessor



Broad competition: Hill Mari

Non-finite relative clauses: from subject to possessor relativization

• Subject relativization:

[Tengečë zvon'ë-šë]vračtagačêto-k-emtol-ešyesterday call-PTCP.ACTdoctortodayhome-ILL-POSS.1SGcome-NPST.3SG'A doctor who called yesterday will come to me today.'

• Possessor relativization:

[∂škal-žôkolô-šô]edemvesôškal-ômnäl-öncow-POSS.3SGdie-PTCP.ACT personothercow-ACC take-PRF[3SG]'The person whose cow died bought a new cow.'

Broad competition: Hill Mari

Finite relative clauses: from subject to possessor relativization

• Subject relativization:

vrač[kôdôtagačôto-k-emtol-eš]doctorwhichtodayhome-ILL-POSS.1SGcome-NPST.3SG'the doctor that will come to me today'

• Possessor relativization:

edem[kôdô-nôškal-žôkol-en]personwhich-GENcow-POSS.3SGdie-PRF[3SG]'the person whose cow died'

Broad competition in other Uralic languages

- Usually, the competition is not addressed in grammatical descriptions
- Finite relative clauses are a recent innovation, which occurs only in the speech of younger generations
 - Nikolaeva (2014: 283) for Tundra Nenets
 - Nikolaeva (1999: 45) for Northern Khanty
- Finite relative clauses occur only in elicitation, and this strategy is only used when the speaker has problems employing the more common participial strategy
 - Siegl (2013: 460–461) reports for Forest Enets

Broad competition: Hill Mari

Younger speakers (< 50)

Subject > Direct Object > Indirect Object > Oblique > Possessor

finite

Older speakers (> 50)

 non-finite

 finite

Relativizing obliques: non-finite strategy

Instruments and locatives:

Van'a-lan[irgodôm pört-šö-mčiältö-šäšlôk]čiä-mVanya-DATtomorrow house-POSS.3SG-ACCpaint-PTCP.DEBpaint-ACCajôr-aškel-ešshasasa INEread NECT 2000

choose-INF need-NPST.3SG

'Vanya needs to choose the paint with which he will paint his house tomorrow.'

[Əlö-dömö]pörtjälepôdôrg-alive-PTCP.NEGhousequicklybreak-NPST.3SG'The house where nobody lives goes bad quickly.'

Relativizing obliques: finite strategy

Objects of postpositions with a specific meaning:

Kövör-öm[kôdô-nlöväl-nömäšukôveremäcarpet-ACCwhich-GENdown-INwemuchtimeöšt-öl-de-Ina]lükt-äl-mö-m=äta-ksweep-FREQ-PRF.NEG-1PLlift-ATT-PTCP.NACT-POSS.1SG=ADDNEG.NPST-3šoreach[SG]

'I don't even want to lift the carpet under which we have not swept for a long time.'

Broad competition: Hill Mari

Younger speakers (< 50)

Subject > Direct Object > Indirect Object > Oblique > Possessor



Relativizing indirect objects: finite strategy

Recipients in ditransitive constructions: relative pronoun in DAT

Orvezäš[kôdô-lanirokpi-mpodar-en-öt]boywhich-DATmorningdog-ACCgive.as.a.present-PRF-3PLközöt=ätsusuôl-ešnow=ADDhappybe-NPST.3SG

'The boy whom they gave a dog in the morning is still happy.'

• Seems to be preferred even by the older speakers

Relativizing indirect objects: non-finite strategy

Recipients in ditransitive constructions: non-active participle

??Kô-štô [tön'-ön oksa-m pu-mô] edem-et?
 which-IN you-GEN money-ACC give-PTCP.NACT person-POSS.2SG
 'Where is the person to whom you gave the money?'

- Hardly ever produced in elicitation
- Commonly considered ungrammatical
- Brykina & Aralova (2012: 481–482) for Meadow Mari: Relativizing dative dependents of the verbs *šərgəžaš* 'smile' and *vozaš* 'write' is particularly problematic (cf. Valency Rule in Mal'čukov 2008: 218)

Pragmatic constraints in non-finite adnominal modification

~ What can easily be recovered can be produced (and vice versa):

General noun-modifying clause constructions, or GNMCCs (Matsumoto, Comrie, and Sells 2017)

Mön'[ävä-m-öncôlan-ôštôturižarô-mô]Imother-POSS.1SG-GENkitchen-INpotatoesfry-PTCP.NACTjuk-šô-mkol-a-mkol-a-msound-POSS.3SG-ACChear-NPST-1SG

'I hear the sound of my mother frying potatoes in the kitchen.'

Summary on Hill Mari relative clauses

- Both strategies (finite and non-finite) are available
- **Sociolinguistic factors:** finite strategy strongly preferred by younger speakers (Russian influence)
- **Structural factors** (for older speakers): finite strategy preferred when the non-finite one is unavailable or requires additional elements (e.g. POSS)
- **Pragmatic factors** (for older speakers): finite strategy preferred when the non-finite one cannot guarantee recoverability (e.g. recipients)

Narrow competition: Finnish

The finite strategy is clearly the main one. The non-finite strategy is only available on a limited segment of the Accessibility Hierarchy:

[kirje-ttäkirjoitta-va]tyttöletter-PARTwrite-PTCP.PRS.ACTgirl'the girl who is writing a letter'

[tytö-nkirjoitta-ma]kirjegirl-GENwrite-PTCP.Aletter'the letter that the girl has written'

Factors in the competition?

Plans for further research

cf. Kholodilova (2014) on relativization in Russian

- written vs. spoken (written favors participles)
- formal vs. informal (formal favors participles)
- type and status of the head
- well-formedness/frequency of the participial form (lexical factor)
- availability of verbal categories and recoverability of the temporal relation
- length of the relative clause (long favor the finite strategy)
- predicate dependents (more dependents favor the finite strategy)

 \rightarrow Properties associated with deranking/nominalization favor participles

Negative participle: Broad competition

Subject relative clause

[loppututkinto-asuoritta-maton]hakijafinal.degree-PTVcomplete-PTCP.NEGapplicant'the applicant that did not complete the final degree'

Direct object relative clause

[kenen-käänkerto-mattoma-t]tarina-twho.GEN-POLknow-PTCP.NEG-PLstory-PL'the stories that nobody has told'story-PL

Joint work with Nataliia Ozerchuk

Negative participle: Broad competition?

Locative adverbial relative clause

[lähesistu-maton]vuodesohvaalmostsit-PTCP.NEGsofa'the sofa that almost was not sat on'sofa

Temporal adverbial relative clause

[täysin	syö-mätön]	päivä			
fully	eat-PTCP.NEG	day			
'the day when one did not eat at all'					

 \rightarrow All these contexts can (and usually do) feature finite relativization...

Negative participle in Finnish: When can it be used?

... but when can a negative participle compete with a finite relative clause?

Other languages with **contextually oriented** participles (see Haspelmath 1994):

- Sociolinguistic factors: younger vs. older speakers
- Structural/pragmatic factors: Accessibility Hierarchy

Finnish negative participle:

• Lexical factors: what can be relativized with which verbs/meanings NB: not where the *-maton* participle wins but where it competes!

What kinds of relative clauses can be formed?

Based on a corpus study (≈ 370 mln sentences, 42 verbs, <u>https://korp.csc.fi/</u>)

- S 'a person [who doesn't wake up]'
- A 'a woman [who didn't cover her head]'
- P 'a thesis [that I haven't done]'
- Location, Goal 'the region [in which almost nobody lives]'
- Time 'a day [when I wouldn't cry]'
- Reason 'a deed [for which nobody is punished]'
- Content, Topic 'a herpes [about which I wasn't told]'

NB: Indirect object (recipient) relative clauses are not attested at all!

GNMCC contexts

pese-mätön aamu-hengitys
wash-PTCP.NEG morning-breath
'a morning breath one has if they haven't washed their mouth'

keskustele-mattoma-tparisuhtee-tdiscuss-PTCP.NEG-PLrelationship-PL'the relationship in which partners don't discuss things'

syö-mätönkuntoeat-PTCP.NEGcondition'a condition [of your throat] in which you can't eat'

Lexical restrictions on the use of the negative participle

- Core participants usually can be relativized
 - Intransitive verbs: subjects
 - Transitive verbs: direct objects strongly preferred (cf. Absolutive Hypothesis in Fox 1987)
- Non-core participants: Valency Rule
 - Participants belonging to the valency of the verb
- Temporal adjuncts
 - *nukkumaton yö* 'the night when smb didn't sleep': 71% of contexts
- Every verb tends to have a preferred type of relative clauses
- \rightarrow Are lexical preferences in this domain underrated?

Overall summary

- The competition between finite and non-finite strategies in Uralic languages can be considered on different levels
- Among languages: more finiteness in the west, less finiteness in the east
- Among constructions: some favor finiteness, some favor non-finiteness
- Within constructions:
 - Sociolinguistic factors (e.g. age), written vs. spoken, style, etc.
 - Structural factors
 - Pragmatic factors (e.g. recoverability)
 - Lexical factors
- Competition within constructions is largely understudied

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