Voice alternations in Kazym Khanty participial relative clauses

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Syntax of Uralic Languages 2019

1 Introduction

- Kazym Khanty, close to Obdorsk Khanty described in (Nikolaeva 1999) but showing several morphological differences (i.e. number of cases, pronominal paradigms, DOM)
- Data comes from fieldwork (elicitation + texts) with 17 native speakers living in Kazym
- Non-rigid SOV, head-final
- Four morphological cases in total
 - Nouns: NOM=ACC (unmarked), DAT and LOC
 - Personal pronouns distinguish NOM (unmarked), ACC and DAT; impossible in the contexts that require Locative

2 Agrument alternations in Kazym Khanty: general background

There is a -a(j)-/-i(j)- morpheme that has been traditionally defined as passive. The natural context for its occurrence is answering a general question like *What happened?* or beginning a story. The demoted participant bears the Locative case.

(1) ma i puš am-ən pur-s-aj-əm
 I one time dog-LOC bite-PST-PASS-1SG
 'Once I was bitten by a dog'.

Another argument alternation does not involve the -a(j)-/-i(j)- morpheme and has generally been approached as secundative alternation: IO promotes to the DO position, triggering the object agreement on the finite verb. DO turns into Locative.

 (2) aŋk-ɛm apl-ɛm sołamat-ən mä-s-łe mother-1sG younger.brother-1sG mash-LOC give-PST-3sG.sG
 'My mother gave kasha to my brother (lit. My mother gave my brother with kasha)'.

This can be further passivized:

(3) apl-ɛm aŋk-ɛm-ən sołamat-ən mä-s
 younger.brother-1SG mother-1SG-LOC mash-LOC give-PST-PASS
 'My mother gave kasha to my brother (lit. My brother is given by my mother with kasha)'.

Only dative arguments and high applicatives (in terms proposed by Pylkkänen (2002)) can be promoted to DO; low applicatives, as well as other lower positions cannot participate in secundative alternation.

(4) pet'aj-en ropit-ł ma jaj-əm-a Peter-2SG work-NPST[3SG] I elder.brother-1SG-DAT 'Peter works for my brother'.

- (5) *ma jaj-əm pet'aj-en-ən ropit-4-a
 I elder.brother-1SG Peter-2SG-LOC work-NPST-PASS
 Intended reading: 'Peter works for my brother', promotion to SU + passive morpheme
- (6) *pet'aj-en ma jaj-əm ropit-4-ə44e
 Peter-2sg I elder.brother-1sg work-NPST-3sg.sg
 Intended reading: 'Peter works for my brother', promotion to DO + object agreement

While argument alternation supported by the use of -a(j)-/-i(j)- can be associated with topicalization, secundative alternation has been claimed to co-occur with so-called secondary topicalization (Nikolaeva 2001).

3 Non-finite relativization: general information

The two participial forms $-\partial m$ (NFIN.PST) and -ti (NFIN.NPST) are involved almost in any subordinative construction in Kazym Khanty: control clauses, sentential adjuncts and complements, relative clauses. The two forms differ in their temporal (rather than aspectual) interpretation and do not show any differences over their relativizability. Thus, syntactic positions that are directly accessible to relativization are SU, DO, dative Goals, adjuncts (restrictedly), possessors (restrictedly).

- Subject relativization:
- (7) aj ikij-a mońś mońśi pireś iki
 little man-DAT tale tell.NFIN.NPST old man
 'the old man who tells a fairytale to the boy'
 - Direct object relativization
- (8) śaś-ɛm łot-əm päsan nuҳ moŋ-s-ɛm paternal.grandmother-1SG buy-NFIN.PST table up wipe-PST-1SG.SG
 'I wiped the table that my grandmother bought'.
 - Goal relativization Goals are initially marked with the Dative case. Relativization of goal arguments is somehow restricted and not approved by all of the speakers.
- (9) aŋk-ɛm kińškaj-əł nurəm-a pun-s-łe mother-1SG book-3 shelf-DAT put-PST-3SG.SG
 'My mother put her book on the shelf'.
- (10) ?aŋk-ɛm kinškaj-əł pun-əm nurəm-a än juҳət-ł-əm mother-1sG book-3 put-NFIN.PST shelf-DAT NEG come-NPST-1sG
 'I can't reach the shelf that my mother put her book on'.
 - Adjunct relativization Most of the adjuncts initially bear the Locative case. All of them can easily be relativized:
- (11) täm xatł-ən jaj-əm mašaj-əł imij-a wu-s-łe this day-LOC elder.brother-1SG Mary-3 woman-DAT take-PST-3SG.SG
 'On this day, my brother married Mary (lit. took his Mary as a wife)'.
- (12) muŋ woš-ew-ən ńom-ł-a jaj-əm mašaj-əł imij-a wuj-əm xatł we village-1PL-LOC remember-NPST-PASS elder.brother-1SG Mary-3 woman-DAT take-NFIN.PST day
 'In our village they remember the day when my brother married Mary'.

Relativization of postpositional complement is hindered. There are two cases when it is acceptable (at least to some extent):

- Arguments encoded with postpositions
- (13) ma amp ewəłt päł-łəm
 I dog from be.afraid-NPST-1SG
 'I am afraid of the dog'.

- (14) ?up-εm päł-ti *(ewəłt) amp ma jira woš-s-εm elder.sister-1SG be.afraid-NFIN.NPST (from) dog I away chase-PST-1SG.SG
 'I chased away the dog my sister is afraid of'.
 - Adjuncts of several postpositions can be relativized iff the head noun is the complement of an identical postposition itself (i.e., Case Matching takes place, as it has been studied in free relatives (Izvorski 1997 ao)):
- (15) sašaj-en päsan iłpij-a χäńεm-s
 Sasha-2SG table under-DAT hide-PST[3SG]
 'Sasha hid under the table'.
- (16) *sašaj-en (iłpij-eł-a) χäńεm-əm päsan
 Sasha-2sG (under-3-DAT) hide-NFIN.PST table
 Intended reading: 'the table under which Sasha hid'
- (17) ma sašaj-en xäńɛm-əm päsan iłpij-a wal-ɛmə-s-əm
 I Sasha-2sg hide-NFIN.PST table under-DAT look-INCH-PST-1sg
 'I checked under the table under which Sasha hid'.
 - Possessor relativization

Most of the possessor-like relations are expressed via juxtaposition. The possessive marking on the head is optional except for pronominal possessors, for which it is obligatory. Only the most salient of the possessor-like relations allow for relativization, as e.g. constructions involving kinship terms.

 (18) χił-eł-ał amńa woš woł-ti pir>ś iki grandchild-pl-3 Amnya village be-NFIN.NPST old man
 'the old man whose grandchildren live in Kazym (lit. in the Amnya (river name) village)'

4 Argument alternations within relative clauses

Khanty participles are voice-neutral. When used as passive ones, they do not attach the -a(j)-/-(j)- morpheme - argument alternation can only be seen from argument encoding: SU demotes to Locative.

- (19) a. aŋk-ɛm dot-əm ńań mother-1SG buy-NFIN.PST bread
 - b. aŋk-ɛm-ən iof-əm ńań mother-1SG-LOC buy-NFIN.PST bread 'the bread that my mother bought'

If the Agent is inanimate, only a passive counterpart can be used:

(20) a. jiŋk-ən wuj-əm xot water-LOC take-NFIN.PST house
b. *jiŋk wuj-əm xot water-LOC take-NFIN.PST house
'a house flooded with water'

However, not any relative clause allows for argument alternations. For instance, adjunct or possessor relativization is inncompatible with SU-DO alternation:

- (21) a. aŋk-ɛm ńań łot-ijəł-ti łapka mother-1SG bread buy-FREQ-NFIN.NPST shop
 b. *aŋk-ɛm-ən ńań łot-ijəł-ti łapka mother-1SG bread buy-FREQ-NFIN.NPST shop
 - 'the shop where my mother usually buys bread'

Secundative alternation is also attested within relative clauses. Moreover, in some cases it is required. In particular, IO can only be relativized if firstly promoted to DO:

- (22) a. up-εm ńuχij-ən mij-əm amp nuχ amt-əs elder.sister-1SG meat-LOC give-NFIN.PST dog up get.happy-PST[3SG]
 - b. *up-ɛm ńuχi mij-əm amp nuχ amt-əs elder.sister-1SG meat give-NFIN.PST dog up enjoy-PST[3SG] 'The dog to whom my sister had given meat was happy'.

Combination of secundative alternation and passivization is also legitimate:

(23) up-ɛm-ən ńuҳij-ən mij-əm amp nuҳ amt-əs elder.sister-1SG-LOC meat-LOC give-NFIN.PST dog up enjoy-PST[3SG]
'The dog to whom my sister had given meat was happy'.

Predictably, passivization without secundative alternation is banned:

 (24) *up-ɛm-ən ńuxij mij-əm amp nux amt-əs elder.sister-1SG-LOC meat give-NFIN.PST dog up enjoy-PST[3SG] Intended reading: 'The dog to whom my sister had given meat was happy'.

However, it seems that secundative alternation is only possible when needed: subject relativization does not allow for it.

- (25) a. śɛrk-en išək-ł-əł-łe kät'ij-əł-a ɛsəm jiŋk mij-əm aj ik-eł Sergey-2sg praise-NPST-O-3 cat-3-DAT breast water give-NFIN.PST little man-3
 - b. *śɛrk-en išək-ł-əł-łe kät'ij-əł ɛsəm jiŋk-ən mij-əm aj ik-eł Sergey-2SG praise-NPST-O-3 cat-3 breast water-LOC give-NFIN.PST little man-3 'Sergey praises the boy who gave milk to his cat'.

Adjunct relativization is also incompatible with secundative alternation:

- (26) a. pirəś iki χił-əł-a mońś mońśi χot old man grandchild-3-dat tale tell.NFIN.NPST house
 - b. *pirəś iki xił-əł mońś-ən mońśi xot old man grandchild-3-dat tale tell.NFIN.NPST house 'the house where the old man tells fairytales to his grandson'

Relativized position	Passivization	Secundative alternation
Subject	NA	*
Direct object	ok	NA
Indirect object	ok	needed
Adjunct	*	*
Possessor	*	*

5 Internal structure of participial RCs

- Participles have argument structure \implies vP;
- Possibility to hold aspectual affixes \implies AspP;
- Possible to modify with 'once', impossible to modify with 'later'; the difference between the two forms is more temporal than aspectual (even though in some other close dialects it is aspectual, e.g. in the Shuryshkary one (Muraviev 2017) → TP?
- Impossible to modify with modal adverbs \longrightarrow no ModP or higher.

6 Passivization

6.1 Unmarked subjects vs. demoted subjects

Demoted subject of relative clause shows different syntactic behaviour in comparison to unmarked one. I argue that unmarked subjects of relative clauses are possessors.

• Agreement within RC

In a possessive construction, pronominal possessor obligatorily triggers agreement on the possessee. In other cases, agreement is optional.

 (27) a. ma χot-εm I house-1sG
 b. *ma χot
 I house
 'my house'
 (28) juwan χot-(4)

John house-3 'John's house'

Similarly, pronominal subject of RC triggers possessive agreement marker on the head noun; agreement with non-pronominal subjects is optional.

- (29) łuw łuŋt-ti kinškaj-*(eł) s/he read-NFIN.NPST book-3 'the book she is reading'
- (30) mašaj-en jɛm-a arij-əm ar-(4) wɛra katra Mary-2SG good-DAT sing-NFIN.PST song-3 very ancient 'The song that Mary sang well is very old'.

Agreement with locative subjects is impossible:

- (31) mašaj-en-ən jɛm-a arij-əm ar-(*1) wɛra katra Mary-2SG-LOC good-DAT sing-NFIN.PST song-3 very ancient 'The song that Mary sang well is very old'.
 - Competition from the same structural position

In contrast to passive RC, it is impossible to add another possessor to the structure with unmarked subject.

- (32) a. aŋk-ɛm pөs-əm jɛrnas nuχ sor-s mother-1sg wash-nfin.pst dress up dry-Pst[3sg]
 - b. aŋk-ɛm-ən pos-əm jɛrnas nux sor-s mother-1SG-LOC wash-nfin.pst dress up dry-PST[3SG] 'The dress that my mother washed is dry'.
- (33) a. *aŋk-ɛm pөs-əm jɛrnas-ɛm nuχ sor-s mother-1sG wash-nfin.pst dress-1sG up dry-PsT[3sG]
 - b. aŋk-ɛm-ən pos-əm jɛrnas-ɛm nu<code>\chi</code> sor-s mother-1SG-LOC wash-nfin.pst dress-1SG up dry-PST[3SG] 'My dress that my mother washed is dry'.
 - Quantifiers are impossible

Quantifier phrases such as 'nobody' or 'every' can occur neither as possessors nor as unmarked subjects. The Locative counterpart is grammatical though.

- (34) *nεmχujat aj amp(-əł) nobody little dog-3
 Intended reading: 'nobody's puppy'
- (35) a. nεmχujat-ən än łuχit-əm an-ət ma päsan ewəłt jira wuj-s-əm nobody-loc NEG wash-NFIN.PST cup-PL I table from away take-PST-1SG
 - b. *nɛmҳujat än łuҳit-əm an-ət ma päsan ewəłt jira wʉj-s-əm nobody NEG wash-NFIN.PST cup-PL I table from away take-PST-1SG Intended reading: 'I took away from the table the cups that nobody had washed'.
 - Manner adverbs can only follow the unmarked subject. Locative subjects can be either preceded or followed by an adverbial modifier.
- (36) a. mašaj-en-ən jɛm-a arij-əm ar wɛra katra Mary-2SG-LOC good-DAT sing-NFIN.PST song very ancient
 - b. jɛm-a mašaj-en-ən arij-əm ar wɛra katra good-DAT Mary-2SG-LOC sing-NFIN.PST song very ancient
 - c. mašaj-en jɛm-a arij-əm ar wɛra katra Mary-2SG good-DAT sing-NFIN.PST song very ancient
 - d. *jɛm-a mašaj-en arij-əm ar wɛra katra good-DAT Mary-2SG sing-NFIN.PST song very ancient 'The song that Mary sang well is very old'.

A natural question arises whether there is no subject inside RC at all (and thus, it either demotes to Locative or raises to possessor) or there is a PRO or some other silent element, e.g. a trace. The second option seems to be more plausible:

- In constrast to locative ones, unmarked subjects of RCs can control purpose clauses:
- (37) a. aŋk-ɛm ker-ən punšt-ti päta let-əm ńuxi wuli ńuxi wel-m-al mother-1sg oven-LOC bake-NFIN.NPST for buy-NFIN.PST meat deer meat be-NFIN.PST-3
 - b. *aŋk-ɛm-ən kor-ən punšt-ti päta łot-əm ńuҳi wułi 'nuҳi woł-m-ał mother-1SG oven-LOC bake-NFIN.NPST for buy-NFIN.PST meat deer meat be-NFIN.PST-3 'The meat bought by my mother was deer meat'.
 - ...and intensifier floating at least in some cases:
- (38) a. pet'aj-en łuw saxt-ał-a kińškaj-eł łuŋt-s-əł-łe Peter-2SG s/he INT-3-DAT book-3 read-PST-O-3
 - b. pet'aj-en kińškaj-eł łuw saxt-ał-a łuŋt-s-əł-łe Peter-2SG book-3 s/he INT-3-DAT read-PST-O-3 'Peter read the book by himself'.
- (39) *kińškaj-eł pet'aj-en-ən łuw saχt-ał-a łuŋt-s-əł-łe book-3 Peter-2sG-LOC s/he INT-DAT-3 read-PST-PASS Intended reading: 'The book was read by Peter by himself'.
- (40) pet'aj-en kińška łuw saxt-ał-a łuŋt-əm xatł-əł aŋk-eł nom-ł-əł-łe
 Peter-2SG book s/he INT-3-DAT read-NFIN.PST day-3 mother-3 remember-NPST-O-3
 'Peter's mother remembers the day when Peter read a book by himself'.

7 Conclusion

- Participial relative clauses in Kazym Khanty exhibit argument alternations: promotion to subject and promotion to object.
- These alternations can only take place when *needed*:

- Participial relatives are reduced structures that do not exhibit a full-fledged TP; since there is no possibility to assign Case to the Agent participant. There is some evidence for PRO.
- Secundative alternation within RCs can only be done in order to make IO accessible to relativization
- It might be the case that this is a mechanism that does not involve variation in information structure at all.

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