Deconstructing Clausal Noun Modifying Constructions

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1 Introduction

Comrie (1996, 1998, 2010) and Matsumoto (1997) argue for the existence of a class of languages where relative clauses (RCs) and clausal noun complements (NCs) have the same structure. The hallmarks of these “general noun-modifying clause constructions” (GNMCCs) are claimed to be surface similarity in the formal exponence of NCs and RCs, lack of evidence for extraction (relativization) in RCs, and the use of the GNMCC pattern in complex NPs with a very wide range of relations between the clausal constituent and the head noun. We show that these properties do not hold together. In the main subset of languages claimed to have GNMCCs in Matsumoto et al. (forthcoming), including Japanese, Korean, and Ainu, NCs and RCs are clearly

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distinguished by phenomena such as agreement and N’ pronominalization. To the extent that these have been carefully investigated, the alleged GNMCC languages also exhibit island violations. We conclude that GNMCCs do not form a coherent typology. Our particular focus in this paper is to show that NCs and RCs are structurally distinct, even in languages that have been claimed to exhibit GNMCCs.

2 Noun complements trigger agreement; relative clauses do not

Comrie (1998) situates Ainu within the class of GNMCC languages. However Bugaeva (to appear) shows that Ainu marks the distinction between RCs and NCs by displaying possessive marking on NC head nouns, but not RCs. (1) is an example of possessive marking in a simple possessive NP, while (2) is an example of juxtaposition in a simple attributive NP.

In simple NP possessive constructions (1), the possessee takes the so-called possessive form marked by the possessive suffixes -hV or -V(hV) which indicate the bound status of the form. The possessee is also marked with one of the A prefixes for the person and number of the possessor (3rd person is zero).

(1) a. ku=sapa-ha
    1SG.A=head-POSS
    ’my head’
b. kamuy rus-ihi
    bear fur-POSS
    ’the bear skin’

In the simple NP attributive construction (2), the attributive and modified nouns are simply juxtaposed.

(2) a. sisam uwepeker
    Japanese old.tale
    ’an old Japanese folk story’
b. kamuy rus
    bear fur
    ’a bear skin’ (T 187)

Example (3) shows the same possessive marking as (1) in an NC, and (4) in a perception noun complement (PNC). We see that this marking does not occur in RCs (5). This shows that RCs patterns with a simple attributive NPs (2), while NC/PC complex NPs pattern like possessive NPs.
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(3) [sísam mosir ta po poro-n-no] Japanese land  LOC even.mer.be.many-EP-ADV
a=1 e-toy-ta  p usa aep-i,  ne wa
IND.A =with.APPL-land-dig thing various food-POSS COP and
an kor e ne,  wakka mes-pa] asur-u
exist.SG and like.this water  smash-PL rumor-POSS
‘A rumor (that) the water has smashed it like this, (those) crops that
were even more abundantly grown in the land of the Japanese and
various foods.’ (Ainu; TS1 48)

(4) [an=kamuy-hoku ek] hum-ihi an=eraman
IND.A =god/spirit-husband come.SG sound-POSS IND.A =understand
‘I recognized the sound of my (Thunder)-god husband coming.’
(Ainu; KI 408)

(5) [ku=roski a] inaw opitta hácir wa
ISG.A =stand.PL PERF inaw:prayer.sticks all fall.down and
okay exist.PL
‘All the inaw-willow prayer sticks which I had erected fell down.’
(Ainu; AB 187-8)

The appearance of 3rd person singular marking on the head of NCs but
not RCs is exactly the same as the pattern in Turkish cited by Comrie (1998)
for Turkish from Kornfilt (1997). Turkish data below are cited from Kornfilt
& Vinokurova (to appear):

(6) ev kapi -sí
house door -CMPD.MRK

‘house door’ (Turkish, Kornfilt & Vinokurova (to appear))

The form of the compound marker is identical to the 3rd person singular
possessive agreement marker. As in Ainu, the same marker appears on the
head noun in NCs, but not in RCs:

(7) [hırsız -in kaç -tuğ -i] haber -i
thief -GEN escape -IND.N -3SG news -CMPD.MRK

‘The news that the thief escaped’ (Turkish, Kornfilt & Vinokurova (to
appear))

1 The indefinite form (‘IND’) has four functions: (i) the indefinite person proper (=the impersonal), (ii) the first person plural inclusive, (iii) the second person singular/plural honorific, and (iv) logophoric (person of the protagonist). The logophoric use is common in folktales because they have the structure of reported discourse. For convenience, the indefinite form with the logophoric function is translated as ‘I’, although it is glossed as ‘IND’.
On the basis of this clear distinction between NCs and RCs, Comrie (1998) concludes that Turkish is not a GNMCC language. By the same logic, based on the data in (3)-(5), the same conclusion should hold for Ainu. And indeed, the Turkish and Ainu pattern is not isolated. Nikolaeva (to appear) shows that a similar pattern holds in Tundra Nenets (SAMOYEDIC). Nikolaeva argues that participial RCs in Tundra Nenets behave like regular adjectives while NCs have the properties of a possessive construction. The dependent subject of the RC is cross-referenced on the head noun by the possessive suffix, as in a number of Eastern Turkic, Tungusic and Mongolic languages (9a). However, in the case of NCs, where the predicate takes the genitive form of an action nominal, the optional third person possessive agreement on the head is not with the dependent subject but with the dependent clause as a whole, as we see in (9b). Possessive agreement in NCs is thus fixed as 3rd person singular, as in Ainu (3), (4)².

(9)  a. [m@n'o] t'en'ana ǹow'la-w'adawey'o] wen'ako-m'į
    I yesterday feed-NEG.PART dog-1SG
    ‘the dog which I didn’t feed yesterday’
   b. [s’enc’elawa-xoan yil’e-wa-n’t] m’ir / m’ir-ta
    hotel-LOC live-IMPF.AN-GEN.2SG price / price-3SG
    ‘the price of your stay in a hotel’ (Tundra Nenets, Nikolaeva (to appear))

The crux of Comrie’s (1998) argument that Turkish is not a GNMCC language was that in addition to distinguishing RCs and NCs by marking on the head, Turkish lacks the characteristic Japanese and Korean GNMCC pattern in (10), where gapless clausal dependents distinguished from RCs in languages such as English are morphologically identical to RCs:

(10)  a. *et piš-en koku
      meat cook-REL.P smell
      Intended reading: ‘the smell of meat cooking’ (Turkish, Kornfilt
 & Vinokurova (to appear))

²The Tundra Nenets distinction between RCs and NCs is not universal among languages which mark possessive agreement with the dependent subject on the head of RCs. In Sakha, for example, possessive agreement is with the dependent subject in NCs as well, the same pattern as in RCs (Kornfilt & Vinokurova (to appear)).
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As is well known, Korean and Japanese allow perception noun complements (PNCs) such as (10); thus Comrie classifies these languages as GNMCC languages:

(11) a. [kyaku=ga niku=o yaku] nioi (Japanese)
guest=NOM meat=ACC grill smell
‘the smell of the guest cooking meat’

b. [sonnim i kok lul kwup-nun] naymsay (Korean)
guest NOM meat ACC grill-ADN smell
‘the smell of the guest cooking meat’

Since Ainu and Tundra Nenets both distinguish RCs and NCs the same way Turkish does, if there were a unified GNMCC language type, we would expect these languages, like Turkish, to disallow PNCs like Korean and Japanese in (11). But in fact both languages do allow Japanese/Korean type PNCs. In Ainu, PNCs pattern with NCs: they employ the possessive construction, glossed as POSS.

(12) a. [e=munin] lura-ha (Ainu)
2SG.s=rot smell-POSS
‘your rotten smell’; lit. ‘the smell of you roting’ (OI)

b. [Wera-h xal’a-m tal”tamp”-wa-h] nppt’ (Tundra Nenets)
Wera-GEN fish-ACC fry-IMPF.AN-GEN smell
‘the smell of Wera frying the fish.’

This shows that RCs and NCs are structurally distinct in these languages, and that PNCs pattern with NCs. But the more important general point is that the supposed GNMCC properties do not cohere: the existence of NC-like PNCs does not correlate with presence (as in Ainu or Nenets) or absence (as in Japanese/Korean or Sakha) of a formal distinction between RCs and NCs.

3 The RC : NC distinction in N’ pronominalization

Our argument in the previous section was based on the existence of possessor agreement in Ainu, Turkish, and Nenets. The possibility of possessor agreement showed that NCs and RCs are distinct, and further that PNCs pattern with NCs. Japanese and Korean lack possessor agreement. Can another syntactic phenomenon be found that distinguishes NCs and RCs in these languages?
The answer is yes. NCs and RCs are distinguished in Japanese and Korean by phenomena that substitute a pronoun for the head in a complex NP (Whitman 2013). Let us consider Japanese first.

As is well known, Japanese can substitute for a subpart of a nominal projection with the pronoun no ‘one, thing’. No pronominalization (McGloin 1985) is freely possible in RCs.

(13) 
[[Ryooi \text{ fisherman} ga \text{ grilled} sakana] wa nakunatta ga, [[kimi ga yaita] no] wa nokotte iru. 

The fish that the fisherman grilled is gone, but the one/those you grilled remains.’

In contrast, speakers reject no pronominalization in NCs:

(14) *
[[pro \text{ saury} o \text{ grilled} syooko] wa kieta ga, [[pro iwasi o yaita] no] wa nokotte iru. 

The evidence for grilling saury has disappeared, but that for grilling sardines remains.’

Just as PNCs pattern with NCs, not RCs, with respect to possessor agreement marking in Ainu, PNCs pattern with NCs with respect to no pronominalization:

(15) *
[[pro \text{ saury} o \text{ grilled} nioi] wa kieta ga, [[pro iwasi o saury ACC grilled] smell TOP is.gone but sardine ACC yaita] no] wa nokotte iru. 

The smell of grilling saury has gone, but that of grilling sardines remains.’

This contrast is independent of the semantics of the head noun. Thus the noun syooko disallows no pronominalization as the head of the NC in (14), but no pronominalization is perfectly acceptable when this noun heads a gapped RC, as in (16):

3 Saito & Murasugi (1990) argue that some cases of apparent N’ pronominalization in Japanese are NP ellipsis, leaving no ‘s, one behind in the DP projection on a par with the English pattern analyzed by Jackendoff (1971) as N’ Ellipsis and by Abney (1986) as NP Ellipsis. For our purposes here, the difference between pronominalization and ellipsis is not crucial; we are applying the phenomenon simply as a diagnostic in NC and RC environments.

‘The evidence that Hanako found has gone, but that that Taroo found remains.’

The same is true of the perception noun nioi ‘smell’. This noun also disallows no pronominalization when it heads a PNC, but it is perfectly acceptable when it heads an RC:

(17) [[kinoo kaida] nioi] wa kyooretu data ga, [[kyoo kaida] no] yesteray smelled smell TOP strong was but today smelled one wa motto kyooretu da.

‘The smell that (I) smelled yesterday was strong, but the one I smelled today is stronger’

A similar contrast is shown by pronominalization using kes ‘thing, one’ in Korean:


‘The fish that the fisherman grilled is gone, but the one/those you grilled remains.’


‘The evidence of grilling saury has gone, but that of grilling sardines remains.’


‘The smell of grilling saury has gone, but that of grilling sardines remains.’

Kes pronominalization with NCs (19) and PNCs (20) appears to be slightly more acceptable than the corresponding Japanese no pronominalization examples, but when the head element is replaced by the clearly pronominal ku
kes ‘that (thing)’ the NC and PNC examples become completely unaccept-
able, as in (22), (23), while the RC example is only slightly degraded (21):

(21) ?[[Epu ka kwuwun] sayngsen] un epseci-ess-ciman, [[ney
fisherman NOM grilled fish TOP disappear-PST-but you
NOM grilled that KES TOP remaining is
‘The fish that the fisherman grilled is gone, but that one/those you
gilled remains.’

(22) *[[Kkongchi lul kwuwun] cunke] nun epseci-ess-ciman,
saury ACC grilled evidence TOP disappear-PST-but
sardine ACC grilled that KES TOP remaining is
‘The evidence of grilling saury has gone, but that one of grilling sar-
dines remains.’

(23) *[[Kkongchi lul kwuwun] naymsay] nun epseci-ess-ciman,
fisherman NOM grilled smell TOP disappear-PST-but
sardine ACC grilled that KES TOP remaining is
‘The smell of grilling saury has gone, but that one of grilling sardines
remains.’

As in Japanese, the head nouns cunke ‘evidence’ and namsay ‘smell’ freely
allow kes pronominalization when they head RCs:

(24) a. [[Hyenkyengi palkyenhan] cunke] nun
Hyungyung NOM discovered evidence TOP
epseci-ess-ciman, [[Chelswu ka palkyenhan] kes] nun
disappear-PST-but Chelsu NOM discovered KES TOP
nama ista.
remaining is
‘The evidence that Hyungyung discovered is gone, but that which
Chelswu discovered remains.’

b. [[Eccey mathun] maymsay] nun kanglyelha-yss-ciman, [[onul
yesterday smelled smell TOP strong-PST-but today
smelled KES TOP more strong
‘The smell that (I) smelled yesterday was strong, but that which I
smell today is stronger.’

We have seen that two separate phenomena in languages that have been
claimed not to distinguish noun complements and relative clauses, in fact
distinguish them. We have also seen that these phenomena group together the two types of clausal complements, NCs and PNCs. Why should this be the case? The most straightforward explanation is that the dependent clause in NCs and PNCs is an argument of the nominal head. Arguments of the nominal head trigger agreement and are within the projection that is substituted for by pronominalization. RCs, on the other hand, are outside N’ (or, in a DP analysis, NP).

4 Microvariation with respect to apparent island violations
The syntax of the apparent island violations in alleged GNMCC languages such as Japanese and Korean is well studied, but Comrie (1998) and Matsumoto (1997) do not cite this research. In the case of Japanese and Korean, a key insight is due to Yang (1990), Sakai (1994), Han & Kim (2004), and Hoshi (2004), who point out that apparent island violations in these languages are analyzable as relativization from major subject position (MSC) outside the island:

(25) a. Sono ko ga inu ga hoete iru. (Japanese)
    that child NOM dog NOM barking is
    ‘It is that child whose dog is barking.’

   b. [[e inu ga hoete iru] ko]
      dog NOM barking is child
    ‘the child whose dog is barking’

The MSC analysis accounts for microvariation between Korean and Japanese (Whitman 2013). Han & Kim (2004:325) point out that MSCs are disallowed in Korean with activity verbs (26a). Relativization is disallowed in exactly the same context (26b):

    that child NOM puppy NOM bark-PAST-DEC
    ‘As for that child, the puppy barked.’ (Korean, Han & Kim (2004:325))

   b. *[[kanci ka cic-nun] ai]
      puppy NOM bark-ADN child
    ‘the child such that the puppy was barking’

The contrast between Japanese (25) and Korean (26) shows that apparent island violating relativization is possible just where MSCs are possible in these languages.

The RC pattern corresponding to (25b) is disallowed in Turkish and Sakha altogether (Kornfilt & Vinokurova (to appear)) and also in Ainu. As predicted,
these languages lack MSCs. Under the GNMCC hypothesis, there is no particular requirement that RCs contain gaps; thus the ill-formedness of Korean (26b) in just the context where an MSC is also disallowed is not accounted for. Similarly, the existence of the island effects in Sakha and Ainu discussed below is unaccounted for.

Languages with prehead relative clauses also show a range of variation with respect to NC islands, but the variation does not fall along the lines of the supposed GNMCC and non-GNMCC languages. In general, NC islands are easier to violate than RC islands, as predicted by Huang’s (1982) Condition on Extraction Domains (CED). As we demonstrated in the previous section, NCs behave like complements, while RCs do not. The CED predicts that complements are generally easier to extract from. When we examine the range of variation, we find that NC islands can be violated in Ainu (27) and Turkish (28) (both non-GNMCC languages), but not in Sakha (29) (supposedly a GNMCC language). This is exactly the opposite of the prediction of the GNMCC hypothesis, which holds that island effects are less salient in GNMCC languages.

(27) \[
\text{ene SOREKUSU tura-no oka=an} \quad \text{like.this especially COM-ADV exist.PL=IND.S} \\
\text{hum-i wen] pe SOREKUSU nep} \quad \text{sound/feeling-POSS be.bad thing/person especially somehow} \\
\text{a=ronnu pa ruwe ene an,} \quad \text{IND.A=kill.PL PL INF.EV like.this exist.PL}
\]

‘The people we didn’t want as neighbors were killed in that manner.’ lit. ‘People, [(such as) especially the sound/feeling, [(such as) to be with _____,] is bad]...’ (K8109171UP.224-5)

(28) \[
\text{[Ali-nin} \quad \text{[Oya-nin} e, kaç -acağ -i] \\
\text{Ali-GEN Oya-GEN abscond -F.IND.N -3.SG} \\
\text{söyleni-sin]-i} \quad \text{Duy -duş -ni] ülkei} \\
\text{rumor-CMPD.MRKR-ACC hear -IND.N -3.SG country}
\]

‘The country which Ali heard the rumor that Oya was going to run away to’

(29) \[
\text{*[Masha} \quad \text{[Misha e, kuop-put] suraq-yin] isti-bit] \\
\text{Masha} \quad \text{[Misha run.away-PST] rumor-3.SG.ACC} \quad \text{hear-PST} \\
\text{dojdu-ta} \quad \text{country-3.SG}
\]

‘the country which Masha heard the rumor that Misha ran away to’
### Conclusion

We conclude that prehead RCs and NCs are structurally distinct. NCs are complements; they trigger agreement and are included when the N projection is substituted for by pronominalization. RCs are modifiers. Gaps in RCs are constrained by island conditions, subject to independently motivated language-particular properties such as the existence of MSCs. NCs reside in the lexical NP projection, RCs outside of it.

### Sources

- [O] Oda Ito (1908-2000), informant of the Chitose dialect of Ainu; the author’s field-notes.

### References


