

Information structure in Takivatan Bunun: topicality and the role of ellipsis

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This talk will give an overview of the various grammatical mechanisms in Takivatan Bunun that are involved in the realization of topicality and topic continuity. I will argue that such an account needs to allow for the occurrence of multiple topics per clause. Takivatan is typologically uncommon in that it allows for the deletion of almost all elements in a clause, both free and bound, that can be recovered from the discourse context, with the exception of the verbal root and some associated bound morphemes. Section 4 will discuss the role that the non-expression of information plays in the realization of topical and non-topical information.

1. Introduction

1.1. Takivatan Bunun

Bunun is one of the Austronesian languages spoken on Taiwan. As far as the historical record goes back, the Bunun have been hunters living in the mountainous interior of the country. The exact relationship of Bunun to other Austronesian languages of Taiwan (often referred to as Formosan languages) is not yet resolved.

There are five dialects, subdivided in the three dialect groups. Takivatan, together with Takbanuað, belong to the Central group; Isbukun, the largest dialect, is the only member in the Southern group; and Takibakha and Takituduh form the Northern group. These groups were already recognized more than a hundred year ago by Ogawa & Asai (1935) and are linguistically well-motivated (see De Busser 2009:85–91). Important to the discussion at hand, there are marked morphological differences between the dialects, and it is expected – though not investigated in sufficient depth – that this also the case for syntax.

1.2. Some theoretical preliminaries

Focus. The term focus does in this talk – somewhat confusingly – refer to “a system of verbal cross-referencing that is peculiar to a sizeable group of Austronesian languages of Taiwan and the Philippines. This system is used for expressing functional relationships between the predicate and pragmatically privileged arguments in the predicate-argument complex” (De Busser 2011:526). It does not to the concept of focus as introduced by the Prague School and later applied to the study of information structure (see e.g. Lambrecht 1996 or Van Valin & LaPolla 1997).

Topic. Unless clearly indicated otherwise, the term topic refers to the clausal topic, as opposed to the discourse topic. The topic of a clause (or sentence) is often simply defined as “what the clause is about”. It typically encodes a referent.

Internal vs. external topic. For the purpose of the analysis of Takivatan Bunun, we will make a distinction between a clause-internal and a clause-external, or extraposed, topic. (A similar distinction was made as early as Chafe 1976). The former refers to topical arguments that fulfill a normal grammatical function within a clause, occur in their predicted position inside the clause and exhibit a whole range of grammatical properties typically associated with that position within the clause.

The clause-external topic is a topical argument that, usually for reasons to do with pragmatic stress, has been moved in front of their matrix clause by using one of two topicalization constructions. Clause-external topics might or might not correspond to the clause-internal topic, but in Takivatan – unlike languages like Japanese – they must always correspond to an actual participant in their matrix clause, i.e. it must be possible to express them as an argument of some sort in the matrix clause without changing the intended meaning of the matrix clause.

An implied consequence of the division between clause-internal and clause-external topic is that individual clauses can potentially have more than one topic (see e.g. Nikolaeva 2001; Lambrecht 1996:146ff).

2. The clause-internal topic

Within the structure of the main clause, information structure is realized through a combination of morphosyntactic mechanisms.

2.1. Verbal alignment morphology

Takivatan has an argument alignment system that is traditionally called a Philippine-style focus system and can put stress on the agent, undergoer (typically a patient, but sometimes also instrument or beneficiary), and locative argument of a clause. For the sake of simplicity, we will restrict this discussion of focus marking as much as possible to bivalent dynamic verb roots (so excluding stative roots and minor verb types). I will also analyze the Takivatan verbal focus marking as consisting of suffixal marking only, contrary to common practice in Austronesian linguistics which tends to combine prefixes, suffixes, and sometimes infixes and reduplication in a single focus paradigm.¹

Actor focus (AF) constructions have no suffix, as in (1).

- (1) *siða malɥaɥaus-ta maduq-ta*
take shaman-DEF.REF.DIST millet-DEF.REF.DIST
The shaman took millet (simplified from TVN-012-001:69)²

In undergoer focus (UF) constructions, the verb is marked with a suffix *-un*.

¹ For an argumentation of why this better reflects the Takivatan data, see De Busser (2009:266–281).

² Codes at the end of examples refer to the location in the Takivatan corpus. Sequences of the letter *x* in a code indicate that this belongs to a set of elicited examples.

- (2) *siða-un asik*
 take-UF shrub
 they gathered the shrubs (simplified from TVN-012-001:24)

Finally, locative focus (LF) constructions have a verb marked with a suffix *-an*.

- (3) *maqtu pa-siða-an-in ηabul vanis*
 can CAUS.DYN-take-LF-PRV antler wild.boar
 We could [in that place] catch deer and wild boar (TVN-008-002:47)

The interpretation of focus suffixes function as cross-reference markers suggests that they put the cross-referenced argument in a pragmatically privileged position of some sort, and in general, it seems to make sense to interpret this position as the clause-internal topic.³ This elevation to topic status is associated with certain grammatical properties:

- Internal topics can be left-dislocated by means of the linker *-a* (see 3.1).
- When appearing as a bound pronoun, they appear in the topic case (see 2.3).
- When expressed by a free personal pronoun, they appear in the topical agent form in the AF and as a neutral form in all other focus types (see 2.3).

These pragmatic and grammatical properties clearly hold for actor focus and undergoer construction, but locative focus constructions with the suffix *-an* are a lot trickier. LF constructions are relatively uncommon and it is not clear from the examples in the present Takivatan corpus that they are realized with a topicalized locative argument (LO).

- (4) *na-ka-lumaq-an ma-sihal-a*
 IRR-MAKE-house-LF STAT-good-LNK
 ‘The land is suitable for building houses.’ (lit: It is good to build a house there.)
 (TVN-012-002:131)

This appears to be related to a general tendency in Formosan languages in which locative focus tends to erode. Very often, it either disappears, or is incorporated in the undergoer focus, and locative focus marking ends up being mainly or exclusively used in nominalizations.

2.2. Argument order and number

Free arguments in Takivatan Bunun occur in a fixed order in the clause:

VERB < AGENT < INSTRUMENT < BENEFICIARY
 < PATIENT < LOCATION < PERIPHERAL

This argument order is inferred through a comparison of examples in the corpus and elicitation, and is not exceptionless (as will be demonstrated below). The following two examples illustrate this order for all core constituents realized as free forms apart from the locative argument.

³ Whether this argument is also a subject in Philippine-type argument alignment systems is the topic of heated debate; see Schachter (1976) for an important early discussion. Since there is a strong tendency for subjects to be topics (see Lambrecht 1996:131ff), we will ignore this issue in the present discussion.

- (15) *hasul-un-ʔak* *ma-ludaq*
 together-UF-1S.TOP DYN-beat
 I have been beaten by many people (TVN-xx2-005:48)

The only exception to the topical character of bound pronouns is the form *-(ʔ)uk*, a portmanteau morpheme marking the non-topical agent in undergoer focus constructions.

- (16) *madam-uk-i* *talikuan*
 catch-1S.NTOP.AG-PRT butterfly
 I was catching butterflies (TVN-008-002:138)

Free pronominal forms cut up the functional space in a different way: they distinguish between an agent topic form (which only occurs in AF constructions) and a neutral form that marks everything else with the exception of certain locative forms and the possessive. This includes (demonstrated with first and second person singular forms):

- a. non-topical agents (see also (20) *ʔaku*)

- (17) *duq* *ludaq-un* *suʔu*
 whether beat-UF 2S.N
 Did you maybe/by any means hit it? (TVN-xx2-001:97)

- b. undergoer topics (see also (20) *suʔu*)

- (18) *antalam-ʔak* *suʔu*
 answer-1S.TOP 2S.N
 I answer you (TVN-xx2-001:2)

- c. non-topical undergoers

- (19) *antalam-un* *suʔu*
 answer-UF 2S.N
 I answer you. (TVN-xx2-001:2)

If two pronominal forms occur in a single clause without any extraposed topics, particularly both are free forms, there tends to be a person hierarchy: the first person overwhelmingly marks an agent, and the second an undergoer. This is illustrated in (20) with two free forms, and in (18) with a bound and a free form.

- (20) *antalam-un* *ʔaku* *suʔu*
 answer-UF 1S.N 2S.N
 I answer you. (TVN-xx2-001:3)

Neutral forms are also used for extraposed pronominal topics (see 3.1).

Figure 1 visualizes the differences in how the bound and free pronominal paradigms divide up the functional-pragmatic space of pronominal deixis based on two main parameters: topicality and agentivity.

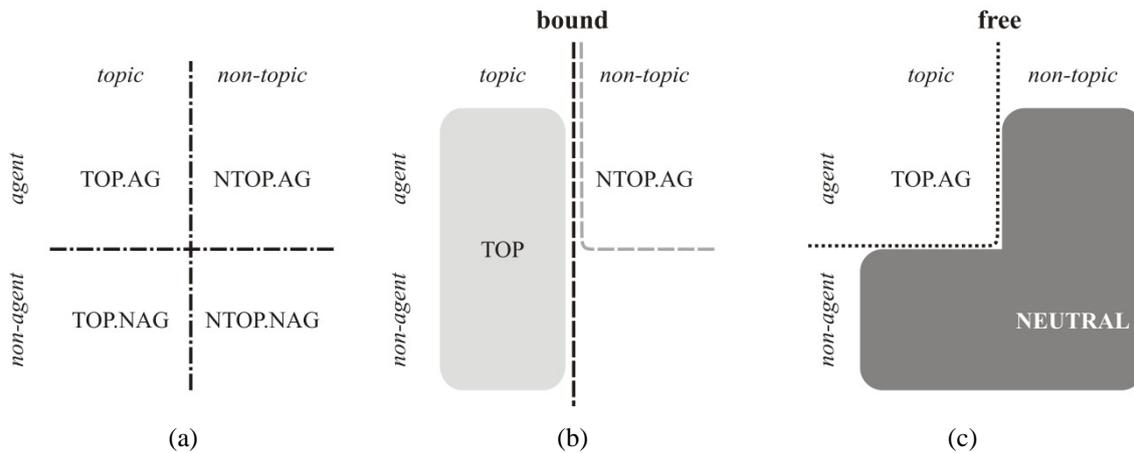


Figure 1. Segmentation of functional space of bound and free pronouns

Bound pronouns mainly mark topical arguments, more specifically first and second person topical arguments, disregarding whether they encode an agent or any other functional role. Free pronouns make a basic distinction between the topical agent, on the one hand, and everything else, on the other.

Importantly, these two systems are not fully complementary: there is a certain degree of overlap between the unmarked form of the bound paradigm (TOP) and that of the free paradigm (NEUTR). Note also that these distinctions do not neatly correspond to traditional grammatical distinctions in nominative or ergative systems. This appears to indicate that the Takivatan pronominal paradigms primarily encode a combination of pragmatic and functional distinctions, rather than more unified and abstract grammatical concepts, such as case.

2.5. Argument ellipsis

Ellipsis will be discussed in 4.

3. The clause-external topic

3.1. Initial constructions with -a

The morpheme *-a* (or *a*; it is not entirely clear whether it is best analyzed as a free or bound morpheme) has multiple functions in Takivatan.⁴ A subset of these can be interpreted in terms of a general linking function connecting a grammatically subordinate element in a sentence or clause to its superordinate. We are here mainly interested in situations where *-a* is unambiguously used for left-dislocating the clause-internal topic, i.e. the constituent within the clause that is targeted by the suffixal focus

⁴ The morpheme *-a* has various other functions and can occur at various positions in the sentence. It is not clear whether these all represent allomorphs of a single morpheme with a broad functional reach, or whether some are just homophones that go back to different historical sources and represent completely different functions. This problem of analysis regarding *-a* or functionally homologous morphemes is very common in other Austronesian languages of Taiwan. Since the historical corpus is absent or highly limited and – bar the discovery of some unknown lost manuscript – fixed for all Formosan languages, it is not likely that this problem will ever be resolved.

morphology or that in any other way functions as the topical argument within the clause. Some examples:

a. The actor in an AF construction with a dyadic dynamic verb

- (21) *tini Tiaŋ-a haiða sia dusa p<in>anaq*
 alone T.-LNK have ANAPH two <PST>shoot
 Tiang by himself already managed to shoot two (TVN-008-002:119)

b. The actor in an AF construction with a monadic dynamic verb

- (22) *aki-a matað-in*
 grandfather-LDIS die-PRV
 Grandfather, he has died (TVN-xxx-xx1:230)

c. The topical argument of an AF construction with a stative verb

- (23) *aipun-a ma-sihal tu bunun*
 DEM.S.MED.VIS-LDIS STAT-good ATTR people
 He is a good man (TVN-xxx-xx1:71)

d. The topical argument of an UF construction with a stative verb

- (24) *ma-aipi-a ka-pisiŋ-un*
 DYN-DEM.S.PROX.VIS-LDIS ASSOC.DYN-afraid-UF
 This here is a dangerous place (TVN-xx2-001:56)

e. The locative argument of a LF construction with a dyadic dynamic verb

- (25) *kahaŋ-a ma ni sadu-an*
 high.grass-LDIS INTER NEG see-LF
 In the high grass, I did not see [the deer] there.

These extraposed topics can be nominal phrases or pronouns. If they are the latter, they can occur either as such, or (as in (24) above) in a verbalized form.

This might give us a clue as how the linker *-a* developed into a topicalizer in the first place. The morpheme *-a* also functions as linking element in what could be called a subordinating construction. These constructions connect an initial clause, which tends to be grammatically light in that it usually has at most a single core argument and no peripheral arguments, to a main clause. Typically, the linker *-a* occurs on the final element if it is verbal in nature or if there is no clear predicate verb in the subordinate clause.

- (26) *min-suma-in-a maqai ʔuka lumaq*
 INCH-return-PRV-LNK if NEG.have home
na mun-han-in kiukai
 CONS ALL-go.to-PRV church
 When you come back, if there is nobody at home, I have gone to the church
 (TVN-xx2-002:3)

- (27) *tuqas istun ?ita-a pan-ma-ka-?ita-in*
 older.sibling 3S.MED there.DIST-LNK ITIN-DYN-HI.AG-there.DIST-PRV
 Her older sister was also there, and she had come over. (TVN-008-002-192)

If the verbal predicate is followed by any arguments, *-a* can occur on every word starting from the verbal head of the subordinate clause

- (28) *i-<lu>lus?an-aq-a ma-daiŋ-?ađ-a, a,*
 LOC-<RED>ritual-PROG-LNK DYN-large-PERSON-LNK INTER
qađmaŋ bađbađ
 meaningless have.conversation
 When the elders were worshipping, they spoke random talk (TVN-008-002:129)

Often, these constructions indicate temporal succession or causality.

Interestingly, the functional distribution of *-a* varies considerably between Bunun dialects. In the Isbukun dialect, the topicaliser used for left-dislocating the internal topic is not *-a* but *hai*.

- (29) *tama hai ma-ludah đaku*
 father LDIS DYN-beat me
 'Father, he beats me.'

The marker *-a* is used in Isbukun for extraposing arguments not targeted by focus morphology (and is therefore the functional equivalent of *maq ... a* in Takivatan)

- (30) *đaku a ma-ludah tama*
 me LDIS DYN-beat father
 'I, father beats me.'

At least one of these morphemes (*hai* or *-a*) must have been a relatively recent innovation. (It seems relatively unlikely that proto-Bunun would have had multiple left-dislocation markers and that two would have developed in external topic markers in different dialects.)

3.2. Sentence-initial constructions with *maq (a) ... a*

The construction *maq (a) ... a* can be used for the extraposition of any core argument, disregarding its pragmatic status. However, the vast majority of occurrences in the corpus involves extraposition of the clause-internal topic (in which case it appears to function as a slightly more emphatic version of topicalization with *-a*). In (31), the actor of the locative verb is extraposed.

- (31) *maq aiŋka-a taki-han ludun*
 DEFIN DEM.P.DIST.VIS-LNK LIVE.IN-be.at mountain
 As for them, they are living in the mountains. (TVN-xx2-003:55)

In example (32), the extraposed element corresponds to the locative topic of the main clause.

- (32) *maq a naiipa a ma<i>lan-kinuð-in-an*
 DEFIN LNK DEM.S.DIST.NVIS LNK <PST>VIA-afterwards-PRV-LF
niap-in tu u mu-lusqun ʔita
 know-PRV COMPL yes ALL-move there.DIST
 To that one [that new school], I know we only moved there in later times. (TVN-008-002:13)

In contrast to topicalization with *-a*, the construction involving *maq (a) ... a* can also be used for extraposing non-topical arguments. For instance, in (33), the extraposed argument, the toponym *Haul Madaiŋaðan*, cannot possibly function as the topic of the complex verb phrase *haiða ... matað* ‘has died’.

- (33) *a maq a Haul Madaiŋaðan-a haiða-dau-ka*
 INTER DEFIN LNK H.M.-LNK have-EMO-DEF.SIT.DIST
tan-<di>dip qabas matað-a
 DIR-INTENS-then in.former.times die-LNK
 As for H. M., somebody had died there in those days long ago, ... (TVN-012-002:158)

Similarly, it is unlikely that *maupati tu siniquumus* ‘this kind of life’ in (34) is the topic of *isanin madaiŋaðin* ‘have reached old age’ (although this interpretation cannot be excluded with absolute certainty).

- (34) *aupa min-liskin tu*
 thus INCH-believe COMPL
maq a maupa-ti tu sin-iqumis a
 DEFIN LNK thus-DEF.REF.PROX COMPL RES.OBJ-life LNK
i-san-in ma-daiŋað-in-a ...
 LOC-be.at-PRV STAT-old-PRV-LNK
 Thus, I believe that, as for this kind of life, when one has reached old age, ... (TVN-008-002:4)

The Takivatan corpus even contains a lonely example of a possessor to an noun phrase being extraposed. In (35), *nak* ‘me’ can only be meaningfully interpreted as the possessor of *lumaqti* ‘house’.

- (35) *maq nak a i-han lumaq-ti*
 DEFIN 1S.N LNK LOC-be.at home-DEF.REF.PROX
ʔasaŋ-ti laupa-dau-ka
 village-DEF.REF.PROX now-EMO-DEF.SIT.DIST
 As for me, my house is in the village now, ... (TVN-003-xxx:5)

Sometimes, the extraposed element is reprised in the matrix clause by a pronoun or demonstrative, as in (36), or – much more uncommonly – a noun, as in (37). In example (36), the extraposed topic *bananʔað* returns in the matrix clause as the distal demonstrative *aiŋka*.

- (36) *maq a bananʔað-a pan-qailað aiŋka*
 DEFIN INTER man-LNK ITIN-come.together DEM.P.DIST.VIS
 ‘As for the men, they came together’ (TVN-012-001:60)

In (37), it is the head of the extraposed noun phrase (*iðuq*) which is repeated in the matrix clause.

- (37) *maq a sin-suað-in t[u] iðuq a*
 DEFIN LNK RES.OBJ-sow-PRV ATTR orange LNK
ma-visqa-in-u-ka iðuq
 STAT-abundant.with.fruit-PRV-???-DEF.SIT.DIST orange
at-mu-suqais-in
 RETURN-ALL-go.and.come.back-PRV
 As for the oranges that they had planted, they were full of fruits when they had returned back home ... (TVN-012-001:27)

When the *maq (a) ... a* construction extraposes an argument that is not the clause-internal topic, or when it is reprised in the matrix clause as a pronominal form, it creates a situation where a single clause has a different clause-internal and clause-external topic. Alternatively, one could analyze the topicalization construction with *maq (a) ... a* as a subordinate clause construction, with *maq* functioning as a verbal predicate. This makes sense for two reasons.

First, the construction involving *maq (a) ... a* allows for a reprisal of the extraposed element in the matrix clause. The fact that omission of the extraposed element in the matrix clause is not obligatory suggests that this is not topic extraposition in a monoclausal construction, but that in fact, the topic is introduced in an initial definitional clause, which is linked to a second clause by means of a clause-final linker *a*.

Second, the morpheme *maq* in these constructions in all likelihood goes back to an indefinite pronoun meaning ‘what’ or ‘whatever’, which in its turn is related to the question word *maq* ‘what?’ . Question words (38) and indefinite pronouns (39) in Takivatan Bunun exhibit a number of properties associated with verbs and are able to function as the head of predicates: they occur in clause-initial position, and they can occasionally occur with certain verbal morphemes.

- (38) *maq aipa ?*
 what DEM.S.DIST.VIS
 What is that? (TVN-xxx-xx1:73)
- (39) ... *aupa maq aipun-a*
 because DEFIN DEM.S.MED.VIS-LNK
 ... because that is who he is. (TVN-003-xxx:10)

The indefinite pronoun is also used in definitional constructions (‘this is what...’), as in (40) and the complement clause in (41).

- (40) *maq a kitŋa ma-daiŋʔað tupa tu⁵*
 DEFIN INTER begin STAT-old tell COMPL
 Here begins what the elders told. (TVN-012-001:11)

⁵ The particle *tu* is here used as a trailing complementizer: it marks an unexpressed complement clause.

- (41) *min-liskin-an tu maq a lainiqaiban-i a ...*
 INCH-believe-PROG COMPL DEFIN INTER life-PRT SUBORD
 In thinking about how my life happened, [one cannot forget it without
 mention ...] (TVN-008-002:219)

It is not difficult to see how such a construction could later be appropriated for the extraposition of contrastive topics.

4. A note on ellipsis

Winkler (2006) defines ellipsis, perhaps in an overly general fashion, as “the omission of linguistic material, structure, and sound.” Ellipsis tends to be governed by principles related to recoverability: a string can be ellipted if it can somehow be reconstituted from the discourse context, which in certain linguistic frameworks this refers to the immediate linguistic context, but for our purposes here will always include the extra-linguistic context shared by all discourse participants. It has been observed in many languages that the topic of a clause is more likely to remain unrealized than non-topical elements. The explanation for this is that topics are typically realizing information that easily recoverable from the discourse or external context. Topical arguments are regularly omitted in Takivatan real-world text, both in narrative text and in spontaneous conversation, and in elicited examples.

For instance, in (42) the undergoer topic of the UF construction and its attributive quantifier ‘many sweet potatoes’ are omitted.⁶

- (42) *sauḍunin ḍaku*
suaḍ-un-in ḍaku
 sow-UF-PRV 1S.N
 [Did you plant a lot of sweet potatoes? –]
 A: I planted [many sweet potatoes]. (TVN-xx2-003:39)

In (43), the actor of *tupa* ‘speak’ is left unexpressed because it is easily recoverable from the preceding linguistic context.

- (43) *tupa tu asa maupa-ta dau m-iqumis*
 say COMPL have.to thus-DEF.REF.DIST EMO DYN-life
 [Our father] told that one had to live like that. (TVN-013-001:12)

In Takivatan, as in many Austronesian language, any argument in a clause can also remain unrealized when it can be inferred from the wider discourse context.

In fact, the omission of arguments in general, whether or not they are the topic of the clause, is exceedingly common in the Takivatan dialect of Bunun. For example, in the sentence below, none of the core arguments (indicated by square brackets) is explicitly expressed, since all can be inferred from the preceding discourse.

- (44) a. *maupa-ta qa<i>-qansiap-an tudip-i*
 thus-DEF.REF.DIST understand-LF that.time - PRT
 As such, [I] formed an impression of [the situation] in those days, ...

⁶ Omitted arguments are indicated in the translation by means of [angular brackets].

- b. *aupa matqas-i ma-qansiap*
 thus clear-PRT DYN-understand
 so that [I] clearly understand [it]. (TVN-008-002:32)

A second example, which occurs later on in the same story as (43), illustrates that only new information is explicitly expressed.

- (45) a. *haiða han saupa hatal daiŋ-ʔað*
 have at in.direction.of bridge large-ADJR
 In that direction there was a large bridge, ...
- b. *haiða ʔita mal-ʔasaŋ Bantalaŋ-a*
 have there.DIST STATE-home.village Amis-LNK
 and there was the village of the Amis, ...
- c. *makanipa-ta*
 pass.by-DEF.REF.DIST
 [we] passed it ...
- d. *tan-ʔanak minkaun-an ludun a*
 DIR-self climb-LF mountain LNK
 and [we] climbed the mountain by ourselves ...
- e. *muqaiv*
 go.over.top
 and when [we] had gone over the top
- f. *na-mun-han paun tu Qusunsubali*
 IRR-ALL-go.to be.said COMPL Q.
 [we] had arrived at so-called Qusunsubali, ...
- g. *tama-ki sia tu Maia dʒulu-ta*
 father-DEF.SIT.PROX ANAPH ATTR M. elder-DEF.REF.DIST
 [the place of] the father of deacon Maia. (TVN-008-002:75)

In sentence (44), the speaker assumes that his audience knows that this is a story about him and his friends going on a hunting trip, and therefore omits any reference to the first person plural. In most clauses, this corresponds to the agentive topic, but not always: clause (44), for example, is an LF constructions, and its topic is therefore the locative argument *ludun*.

The two longer examples above brings us to a first question. The ‘classical’ case of ellipsis is probably best interpreted as a process in which arguments are under certain conditions when they are recoverable from the context. One could argue that the opposite is happening in Takivatan: arguments are only expressed if there is a distinct need to do so. In all other situations, their realization is optional. This phenomenon is not unusual among the Austronesian languages of Taiwan, the Philippines, and Indonesia.

However, Takivatan goes a step further. It is not only possible to omit arguments, or other phrases, from a clause: almost any bound or free element, including bound

pronouns and most verbal affixes, can be omitted from a clause if they can be inferred from the context. For instance, since it is clear in (45) that the speaker inquires about a movement away from the deictic center, it is possible in informal speech to omit the allative prefix, as in (46).

(46) *mun-ʔita-ʔas* ?
 ALL-there.DIST-2S.TOP
 Do you want to go there? (TVN-xx2-005:23)

(47) *ʔita-ʔas* ?
 there.DIST-2S.TOP
 Do you want to go there/to that place? (TVN-xx2-005:22)

Let's illustrate the full potential of ellipsis and affix omission with an example. A question often asked to young bachelors entering a Bunun village is whether they are already married. A proper answer would be:

(48) *ni-aŋ-ʔak* *pa-siða* *nauʔað*
 NEG-PROG-1S.TOP RECIP-take woman
 I didn't marry to a girl yet. (TVN-xxx-xx1:101)

This is already a shortened version of the following clause, which omitted the nominalizing prefix and CV-reduplication on *nauʔað*.

(49) *ni-aŋ-ʔak* *pa-siða* *bi-<na>nauʔað*
 NEG-PROG-1S.TOP RECIP-take NMZ-INTENS-beautiful
 I didn't marry to a girl (lit: one that is very beautiful) yet. (constructed)

However, it is clear from the preceding question that the speaker is talking about himself marrying to a woman, so the following construction is possible (omission of the first singular pronoun and the direct object).

(50) *ni-aŋ* *pa-siða*
 NEG-PROG RECIP-take
 I didn't marry yet. (construction)

Since it is also evident that the answer to the question has to do with marriage, it is not necessary to express the reciprocal prefix.

(51) *ni-aŋ* *siða*
 NEG-PROG take
 I didn't marry yet. (construction)

It is obviously not possible to omit the negator, as this would change the meaning of the answer. The progressive suffix can also not normally be dropped: *ni siða* would mean 'I won't marry', something that would be exceedingly strange in Bunun culture, unless one is a Catholic priest.

Similarly, a clause like (49) can in the correct context be shortened to (50), a single stative root without the stative prefix *ma-*.

(52) *ma-sihal qu danum*
STAT-good drink water
This water is very good to drink. (TVN-xxx-xx1:206)

(53) *sihal*
good (constructed)

A consequence is that the minimal clause in Takivatan is a predicate consisting of a bare root (typically verbal, sometimes another word class). In fact, in casual conversations, it is not uncommon for entire question-answer sequences to mostly consist of bare root utterances.

A second question is why such extreme forms of pragmatically conditioned omission exist. Communicative economy appears to be an important motivator: when almost everything in a clause is omitted and only the predicate root remains, conversations need not take much time. This increases communicative efficiency within relatively small speech communities with an extensive and relatively stable shared extra-linguistic discursive context, but it is difficult to see how such a system would be more efficient in a large heterogeneous speech community, where it is much more difficult to keep track of all inferred participants and grammatical properties implied.

The potential omission of bound morphemes might have been facilitated by the fact that Takivatan Bunun has an extremely large affix inventory (over 200 affixes have been attested, most of them occur on verbal roots). There is no clear distinction between inflectional and derivational affixes, and a gradual transition from strongly bound affixes to loosely bound clitics.

One important final remark: although there appears to be a tendency to omit actors and topics, recoverability rather than topicality appears to be the main factor in restrictions on argument and affix omission.

6. Conclusion

In this talk, I gave an overview of grammatical mechanisms involved in the expression of the clause-internal and the clause-external topic. The clause-internal topic is realized through an interaction of a number of grammatical subsystems: verbal cross-referencing, argument order, and pronominal marking. It was especially clear from a comparison of the free and bound pronominal paradigm that although these different grammatical subsystems are involved in the realization of information structure, they do not necessarily make complementary distinctions in cutting up the functional-pragmatic space into meaningful grammatical categories. At least in the pronominal paradigms, it is clear that the main dimensions in this process of categorization are topicality and agentivity.

In the second part of this talk, I discussed the commonality of argument omission in Takivatan Bunun. I demonstrated that it is even possible to omit many bound morphemes when they are recoverable from the context. Since almost anything in a clause can be omitted and, especially in informal speech, the non-expression of recoverable information is norm rather than exception, the question arises whether this should in fact be analyzed as a form of ellipsis or omission, or whether we can just say

that in languages like Takivatan the expression of any form of recoverable information is optional. Finally, we concluded that, although topics are often left unexpressed and contrary to expectation, there is no demonstrable relationship between topicality and argument ellipsis.

Abbreviations

1S: 1st person singular	EMO: emotive particle	P: plural
2S: 2nd person singular	HI.AG: heightened agency	PROG: progressive
3S: 3rd person singular	INCH: inchoative	PROX: proximal
ALL: allative	INSTR: instrumental	PRT: particle
ANAPH: anaphoric	INTENS: intensifying	PRV: perfective
ASSOC: associative	INTER: interjection	PST: past
ATTR: attributive marker	IRR: irrealis	RED: reduplication
CAUS: causative	ITIN: itinerary	REF: referential
COMPL: complementizer	LDIS: left-dislocator	RES.OBJ: resultative object
CONS: consequence	LF: locative focus	S: singular
DEF: definiteness marker	LNK: linker	SIT: situational
DEFIN: definitional marker	LOC: locational	STAT: stative
DEM: demonstrative	MED: medial	TOP: topic
DIR: directional	N: neutral	UF: undergoer focus
DIST: distal	NEG: negator	VIA: viative
DYN: dynamic	NTOP.AG: non-topical agent	VIS: visual
DYN: dynamic verbal prefix	NVIS: non-visual	

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