

GEN	genitive
NEG	negative
SG	singular
PERF	perfective
PAST	past
PRES	present
CLF	classifier

Contact induced variation and syntactic change in the Tsat of Hainan

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Introduction

Tsat is an Austronesian language located on Hainan Island. The 1982 census lists 4131 Utsat people largely in the villages of Huihui and Huixin near Sanya on Hainan Island (which has recently been designated as a province), 3849 of whom still speak Tsat. Virtually all the Tsat speakers also speak one or more Chinese dialects, typically Fukienese or Cantonese, the languages of business, and Mandarin, the language of school.

Genetically the closest language to Tsat is the Northern Rglai of Vietnam, a Chamic language (Austronesian) which it split off from first around 982, with a second migration

probably around 1471. Despite the genetic closeness, Tsat is now radically different both phonologically and syntactically from N. Roglai. Phonologically, Northern Roglai is sesquisyllabic and atonal whereas Tsat is monosyllabic and fully tonal. Structurally, Northern Roglai is much, much more like the other Chamic languages of Vietnam which, in turn resemble the Mon-Khmer languages of the region, while Tsat, not surprisingly, is much like the Chinese dialects that surround it. Increasingly, all that remains of Tsat is the vocabulary, with the structure being Chinese, albeit with Tsat lexical items. Thus Tsat provides some exceptionally clear examples of contact-induced syntactic variation and change. Work has been done on genetic affiliations of Tsat (Benedict 1941), the history of the Chamic languages including Tsat (e.g. Thurgood 1999, 1996), and on the description of Tsat itself, Ouyang and Zheng (1983), Zheng (1986, 1997), with the later work by Zheng including numerous valuable observations on the influence of Chinese on Tsat, both identifying Chinese borrowings and commenting on Chinese structural influence.

Tsat contact

Changes in Tsat resulting from contact with neighboring languages of Hainan are quite obvious. Phonologically, it has gone from sesquisyllabic and registral to monosyllabic and tonal. Lexically, it contains four layers of borrowings reflecting contact patterns since the Tsat arrival in Hainan: a Hlai (= Li) strata, an early Chinese level reflecting early contact with speakers of Min dialects such as Hainanese and various Cantonese dialects, a later layer of contact with the Mandarin spoken by the army and officials, and most recently the Mandarin of the schools. The intensity of the last layer of contact looks to have initiated rapid and through restructuring of the language.

Here we will restrict our examination to four constructions with extant variation, two involving word orders that do not correlate with VO order (Dryer 1992) and two involving word orders that do correlate: genitive constructions, demonstratives and head nouns, adjectives and head nouns, and comparative constructions. All show the structural influence of Chinese.

Genitive (“associative”) constructions

The genitive patterns have been divided into those with full noun phrases as the genitive and those involving pronouns, reflecting the differences in their historical paths of change.

Genitives with full noun phrases

In Northern Roglai full NPs are postposed. In Tsat, even in the most colloquial, non-Sinicized texts, full GenNPs already show Chinese influence: all full genitive NPs are preposed with the genitive construction marked by *sa*³³. In the case of locative NPs, the preposed NPs look to be developing into prepositions. Elsewhere, the genitive marker is a marker of pre-head modification.

Northern Roglai:

Nh GENNP

(1) *ga? sa:k*

(Lee 1966:65)

roof house

‘the roof of the house’

Tsat (colloquial): GENNP *sa*³³ Nh

(2) *ʔa¹¹ʔba¹¹* *sa³³ sa:ŋ³³*. (Zheng 1997:70)

father’s.older.brother GEN house

bófù de fángzi

bófù de fángzi

‘father’s eldest brother’s house.’

(3) *ʔia³³ʔbe²⁴ sa³³ ka:n³³*. (Zheng 1997:71)

river GEN fish

hélǐ de yú

hélǐ de yú

‘the fish in the river’

(4) *...pyay³³ sa³³ za:ŋ⁴²*. (Zheng 1997:95)

...village GEN person

...cūn de rén

...cūn de rén

‘people of the village...’

Tsat (Mandarinized with *ti*³³) GENNP *ti*³³ HeadNP

the same pattern with the genitive borrowed from Mandarin

- (5) *tan*³³ *khua*⁵⁵ *ti*³³ *si*¹¹*ha:w*^{ʔ42}, *la*³³ *pyay*³³ *sa*³³ *za:ŋ*^{ʔ42} (Zheng 1997:4.1.3)

arrive daybreak GEN after under village GEN person

dào tiānliàng de shǐhòu xià cūn de rén

dào tiānliàng shǐhòu, cūnlǐ de nánrén hé nǚrén...

‘Early the next morning, the villagers...’

- (6) *sui*¹¹*tso*^{ʔ42} *kay*^{ʔ42}*kak*²⁴ *kh a:i*³³*ph a:ŋ*³³ *ti*³³ *sin*³³*zit*²⁴ (Zheng 1997:3.3.3)

along.with reform bloom GEN penetrate

suǐzhe gǎigé kāifàng de shēnrù

suǐzhe gǎigé kāifàng de shēnrù

‘As the Reform and Open-door policies continue...’

Mandarin: Poss *de* NP

- (7) *duìzhǎng de érzi* (Zheng 1997:71)

captain GEN child

‘the captain’s son’

- (8) *lǎoshī de shū* (Zheng 1997:71)

teacher GEN book

‘the teacher’s books’

In the genitives, as with the other constructions, the more Mandarinized variants tend to co-occur with borrowed Mandarin grammatical markers (which in some cases seem to mark the construction), tend to have more Mandarin borrowings in the sentence (marked in this paper through the underlining of both the borrowed Tsat term and its corresponding Mandarin (in Pinyin)), and, if one examines the texts, occur in the more Mandarinized texts. For instance, the text on the origin of the Tsat less Mandarin influence than does the text describing the Japanese invasion of Hainan with its Mandarin influenced political content.

Table 1: Noun modification: Genitives (full NPs)

	simple modification	prehead <i>sa</i> ³³ pattern
N. Roglai	Nh GENNP	_____
Colloquial Tsat	_____	GENNP <i>sa</i> ³³ Nh
Mandarinized Tsat	_____	GENNP <i>ti</i> ³³ Nh
Mandarin	_____	GENNP <i>de</i> Nh

In the case of full noun phrases, the Northern Roglai post-head genitives have been totally replaced by Chinese-influenced prehead genitive constructions. Nonetheless, contact has resulted in variation as the colloquial pattern uses a Tsat genitive marker while the

Mandarinized pattern uses a borrowed genitive marker. Both patterns show the structural influence of Chinese.

Genitives with pronouns

Northern Ronglai:

Nh GENPr

(9) *sa:k hã*

(Lee 1966:65)

house you

‘your house’

Tsat (colloquial):

Nh GENPr

(10) *ŋa:n³³ kaw³³ ki²⁴.*

(Zheng 1997:97)

hand I painful

shǒu wǒ tòng

wǒ de shǒu tòng.

‘My hand hurts.’

(11) *ko²⁴?bu²⁴ naw³³ sa²⁴.*

(Zheng 1997:92)

head.hair she messy

tóufa tā luàn

tā de tóufa luàn.

‘Her hair is messy.’

Tsat (Chinese influenced, with *sa*³³)

- (12) *naw*³³ *sa*³³ *ko*²⁴*bu*²⁴ *sa*²⁴. (Zheng 1997:97)

she GEN head.hair messy

tā de tóufa luàn

tā de tóufa luàn.

‘Her hair is messy.’

- (13) *ha*³³ *sa*³³ *ʔa*¹¹-*sa:w*¹¹ *sa*³³ *ha*³³ . (Zheng 1997:87)

you GEN elder.brother... seek you

nǐ de sǎo zhǎo nǐ

nǐ de sǎo zhǎo nǐ.

‘Elder brother’s wife seeks you.’

Mandarin: GENPr Nh

- (14) *wǒ fùqin shì tā bófu* (Zheng 1997:77)

I father be he uncle

‘My father is his uncle.’

GENPr *de* Nh

- (15) *wǒ de shǒu tòng* (Zheng 1997:97)

I GEN hand painful

‘My hand hurts.’

Table 2: Noun modification: Genitives (pronouns)

	simple modification	prehead <i>sa</i> ³³ pattern
N. Roglai	Nh GENPr	——
Colloquial Tsat	Nh GENPr	——
Mandarinized Tsat	——	Pr <i>sa</i> ³³ Nh
Mandarin	Pr Nh	Pr <i>de</i> Nh

Demonstratives and head nouns

Like genitive pronouns, demonstratives are postposed in Northern Roglai and the colloquial Tsat, but preposed in Chinese-influenced Tsat and Mandarin. In the Chinese-influenced Tsat, however, the demonstratives are often accompanied by a genitive marker, a pattern that matches the adjective plus genitive construction immediately below, a construction that reflects Mandarin influence.

Northern Roglai:

(16) *sa:k gheŋ ʔunĩ* (Lee 1966:65)

house big this
'this big house'

(17) *dua ʔa:k labuʔ ʔanāʔ sia:p nũ ʔanĩ la sa:k* (Lee 1966:66)

two person plural child good he this in house
'these two good children of his in the house'

Tsat:

(18) *ʔay³³ ni³³ sat²⁴ ʔan³³.* (Zheng 1997:84)

water this truly cold
shuǐ zhè zhēn lěng
zhè shuǐ zhēn lěng.

'This water is very cold.'

Tsat (Chinese influenced) (this + GEN) + clf

(19) *ni³³ sa³³ ta^{ll} p^han³² pi^{ll}kiaw³³ lu³³.* (Zheng 1997:75)

this GEN one clf CM much
zhè de yī fèn bǐjiào duō
zhè yī fèn bǐjiào duō.

'This portion is bigger.'

Mandarin this + clf

(20) *zhè lù...* (Zheng 1997:75)

this road

‘This road...’

(21) *zhè shuǐ...* (Zheng 1997:84)

this water...

‘This water...’

the classifier version

(22) *zhè gè dà fángzi*

this CLF big house

‘this big house’

Needless to say, the demonstrative-noun order is a result of Chinese contact. This word order change induced by extensive and prolonged contact with Chinese is quite systematic and pervasive throughout the grammatical system of Tsat. It is found in texts collected from the same speaker by Zheng Yiqing in the 80s published in Zheng (1997). It is interesting to note that the borrowed patterns are found in texts that describe more recent phenomena, whereas the native patterns are used in texts of traditional stories.

Table 3: Noun modification: Demonstratives

	simple modification	prehead <i>sa</i> ³³ pattern
N. Roglai	Nh Dem	_____
Colloquial Tsat	Nh Dem	_____
Mandarinized Tsat	_____	Dem <i>sa</i> ³³ Nh
Mandarin	Dem Nh	Dem CLF Nh

Adjectives and head nouns

N. Roglai has postposed adjectives as does the colloquial Tsat, while the Mandarinized Tsat and Mandarin itself have preposed adjectives.

N. Roglai: postposed adjectives

(23) *sa:k gheŋ ʔunĩ* (Lee 1966:65)

house big this

‘this big house’

Tsat: postposed adjectives

(24) *na^ltsun³³ pion^{ʔ42} poi²⁴:* (Zheng 1997:1.1.9)

bird big say

niǎo dà shuō

niǎo dà shuō:

‘The big bird said:...’

- (25) *th un³³ z aw³³ p i o ŋ⁴² s i x⁴² l i a ŋ⁴¹,* (Zheng 1997:1.2.21)

tree big relax.in.cool.place

shù dà xiēliáng

dà shù xià xiūxi de,

relaxed under a big tree,

Tsat (Mandarin-influenced) preposed adjectives

- (26) *hu⁴¹ tsa:n⁴² mi³³ san⁴¹ na:y⁴²² sin³³ na:y⁴²² pa:w³³, ...* (Zheng 1997:4.2.1)

Tsat we believe good heart good reward

Huǐzú wǒmen xìn hǎo xīn hǎo bào

wǒmen Huǐzú rén xiāngxìn hǎo xīn de rén yīdìng dédào bào...

‘We Tsat people believe that people with kind hearts will be rewarded...’

- (27) *... ki u³³ s a n³³,* (Zheng 1997:2.1.1)

... old village

... jiù cūn

... jiù cūn

‘... the old village’

preposed with *sa*³³, a calque on Mandarin *de*

(28) *na:y*⁴² *sa*³³ *saŋ*³³ *huat*²⁴, (Zheng 1997:2.1.10)

good GEN life

hǎo de shēnghuó

hǎo de shēnghuó

‘(the) good life’

Mandarin

(29) *dà niǎo shuō* (Zheng 1997:1.1.9)

big bird say

‘The big bird said:’

preposed with *de*, a ‘genitive’ marker

(30) *hǎo de shēnghuó*, (Zheng 1997:2.1.10)

good GEN life

‘(the) good life’

Note that under the influence of Chinese, the preposed adjectives of Tsat are often accompanied by a genitive marker (or, as Li and Thompson (1981:113-116) term it, an “associative” marker).

Table 4: Noun modification: Adjectives

	simple modification	prehead <i>sa</i> ³³ pattern
N. Roglai	Nh Adj	_____
Colloquial Tsat	Nh Adj	_____
Mandarinized Tsat	Adj Nh	Adj <i>sa</i> ³³ Nh
Mandarin	Adj Nh	Adj <i>de</i> Nh

The spread of the *sa*³³ construction

The *sa*³³ construction is a calque on the Mandarin *de* construction illustrated throughout this paper: *X sa*³³/*de* NP, in which the first element (X) modifies the final NP. This construction, marked by , is expanding in use. Its initial use appears to have been with preposed genitive NPs involving full NPs and then expanded to other parts of the grammar. The three constructions already discussed show this movement from posthead to prehead using the *sa*³³ construction (see Table 5).

Table 5: Noun modification: Spread of the *sa*³³ construction

	Genitive NP	Genitive pr	Dem	Adj
N. Roglai	Nh NP	Nh Pr	Nh Dem	Nh Adj

Colloquial Tsat	NP <i>sa</i> ³³ Nh	Nh Pr	Nh Dem	Nh Adj
Mandarinized Tsat	NP <i>sa</i> ³³ Nh	Pr <i>sa</i> ³³ Nh	Dem <i>sa</i> ³³ Nh	Adj Nh Adj <i>sa</i> ³³ Nh
Mandarin		Pr Nh	Dem Nh	Adj Nh
	NP <i>de</i> Nh			GENNP <i>de</i>
		Pr <i>de</i> Nh	Dem CLF Nh	Nh

For full NP genitives, the older Northern Roglai postposed NPs have been completely replaced by preposed NPs using the *sa*³³ construction; for genitive pronouns, the older postposed genitive pronouns are still used in more colloquial contexts, but in more Mandarinized speech these are now preposed. For demonstratives, the situation is more complex. All demonstratives were postposed in Northern Roglai and tend to retain this posthead position in the more colloquial Tsat. However, in the more Mandarinized speech demonstratives are variably preposed through the use of the *sa*³³ construction. The distribution between the postposed and the preposed with *sa*³³ variants appears to correlate albeit only loosely with both the register and the type of NP involved. Adjectives were postposed in Northern Roglai, are postposed in the more colloquial Tsat contexts, and even in the most Mandarinized Tsat texts still remain postposed some of the time, at other times being preposed using the *sa*³³ construction. The use of this pattern has expanded beyond the examples in this paper to include prehead relative clauses, a construction highly marked for an SVO language like Tsat.

Comparative constructions

The existence of contact-induced word order variation is obvious in the two distinct Tsat comparative patterns: the native pattern is inherited from Chamic; the other is borrowed from Chinese:

X - Adj - CM/ST native pattern

X - CM/ST - Adj Chinese influenced pattern

In the native pattern, Zheng (1997:75) notes that the word order is quality-marker-standard (X - Adj - CM/ST), that is, the quality being compared, followed by the preposition *la:u*³² ‘CM; pass’ (which serves as the comparative marker), followed by the standard of comparison, typically a pronoun. The extent or degree of the quality may also be marked, in which case it is through modification of the quality.

When relationships are compared, the comparative marker is the preposition *la:u*³² ‘CM; pass; exceed’, derived from a verb. For example,

Tsat (colloquial):

(31) *naw*³³ *mɿ*⁴² *la:wɿ*²² *ha*³³. (Zheng 1997:75)

he fat CM you

tā *pàng* *bǐ* *nǐ*

tā bǐ nǐ pàng.

‘He is fatter than you.’

(32) *lu*³³ *pion*^{ʔ42} *la.w*^{ʔ42} *ʔbo*^l*koy*^{ʔ4}. (Zheng 1997:89)

coconut.palm big CM pomelo

yēzi *dà* *guò* *yòuzi*

yēzi bǐ yòuzi dà.

‘The coconut palm is bigger than the pomelo.’

(33) *ʔa*^l*ko*³³ *ph ay*^{ʔ42} *kh a:n*^{ʔ42} *na:y*^{ʔ42} *la.w*^{ʔ42} *ʔa*^l *th ay*^l. (Zheng 1997:75)

elder.brother read book good CM younger.brother

gēge *dú* *shū* *hǎo* *guò* *dìdi*

gēge xuéxǐ bǐ dìdi hǎo.

‘Elder brother studies more than younger brother.’

Tsat influenced by Chinese

However, as Zheng goes on to note, under the influence of Chinese, comparatives often follow a Chinese order, namely, comparative marker, standard, quality (X - CM/ST - Adj), using *pi*^l ‘CM; compare’ borrowed from Chinese to mark the comparison. For example:

(34) *kaw*³³ *pi*^l *ha*³³ *tsat*²⁴*tso*³³ *ki*³³ *sun*³³. (Zheng 1997:75)

I CM you short three inch

wǒ bǐ nǐ ǎi sān cùn

wǒ bǐ nǐ ǎi sān cùn.

‘I am three inches shorter than you.’

(35) *mi³³ sa³³ saŋ³³huat²⁴, ta¹¹ zay³³ pi⁴² ta¹¹ zay³³ pu³³ na:y⁴²*, (1997:2.1.4)

we GEN life, one day CM one day NEG good

wǒmen de shēnghuó yī tiān bǐ yī tiān bù hǎo

wǒmen de shēnghuó yītiān bǐ yītiān chà...

‘...our life went downhill each day,’

(36) *zīn¹¹mīn¹¹ sa³³ saŋ³³huat²⁴ ta¹¹ zay³³ pi⁴² ta¹¹ zay³³ na:y⁴² a⁰*. (Zheng 1997:2.1.16)

people GEN life one day CM one day good PART

rénmǐn de shēnghuó yītiān bǐ yītiān hǎo a

rénmǐn de shēnghuó cái yītiān bǐ yītiān hǎo yuè a.

‘...people’s lives began to get better and better.’

Mandarin

(37) *wǒ bǐ nǐ ǎi sān cùn* (Zheng 1997:75)

I CM you short three inch

‘I am three inches shorter than you.’

(38) *tā bǐ nǐ pàng* (Zheng 1997:75)

he CM you fat

‘He is fatter than you.’

In these examples, both the word order and the comparative marker itself are Chinese.

Instead of the native pattern of quality-standard-noun illustrated by the example in (1), we

have noun-marker-standard-quality exemplified by examples in (2a) to (2c). In fact, this kind of almost wholesale borrowing from Chinese is not confined to a limited number of grammatical structures in Tsat. In other words, it is quite pervasive throughout the grammatical system of Tsat.

Adverbs and conjunctions from Chinese

Adverbs, prepositions, and conjunctions are all borrowed from Mandarin.

Adverbs: (the examples given here are intensifiers)

- | | | |
|------|--|---|
| (39) | <i>tʰ a:y³³ ?dia²⁴</i> . | <i>pʰ ay³³ sian²⁴ na:y²⁴</i> . (Zheng 1997:76) |
| | very hot | extremely good |
| | <i>tài rè</i> | <i>fēicháng hǎo</i> |
| | <i>tài rè</i> | <i>fēicháng hǎo</i> |
| | ‘very hot’ | ‘extremely good’ |
| | | |
| (40) | <i>na:y²⁴ ket⁴²</i> . | <i>sat²⁴ ti⁵⁵</i> |
| | good extremely | really white |
| | <i>hǎo jǐ</i> | <i>zhēn bái</i> |
| | <i>hǎojǐ</i> | <i>zhēn bái</i> |
| | ‘extremely good’ | ‘truly white’ |

Correlative conjunctions:

(41) *ziu³³ pa³³ ziu³³ ha:i³³.* (Zheng 1997:84)

both hungry and tired

yòu è yòu lèi

yòu è yòu lèi.

‘Both hungry and tired.’

Both the Mandarin and the Tsat have exactly the same structure with the key morphemes borrowed from Mandarin.

Clausal conjunctions:

(42) *zi¹¹ko¹¹ kh iŋ^{ʔ42} th a:y³³ ?day^{ʔ24}, kaw³³ saw⁴³ pu³³ na:w^{ʔ42} lə³³.* (Zheng 1997:85)

if tomorrow very hot, I then NEG go PERF

rúguǒ míngtiān tài rè, wǒ jiù bú qù le

rúguǒ míngtiān tài rè, wǒ jiù bú qù le.

‘If tomorrow is very hot, I won’t go.’

What makes these examples particularly interesting is that not only are they borrowed but that for the most part their syntax in Tsat matches their syntax in Mandarin. That is, what has been borrowed is a construction still marked by its characteristic lexical item.

Other Han influenced constructions

Not all Mandarin influence has resulted in patterns of synchronic variation. However, even when this sort of syntactic variation is no longer found, it is still fairly obvious that contact has been at work. Whenever Tsat word order patterns differ from those of the Chamic languages of Vietnam, they are either identical with or close to the patterns found in Chinese. And, of course, the fact that often times grammatical morphemes are borrowed together with the syntactic constructions, even serving to define the construction, is noteworthy.

Examples abound. In (43) below are three separate constructions showing Chinese syntactic influence. The first, indicated by the initial double underlining, is the extension of the prehead modification of the *sa*³³ construction to produce a prehead relative clause. This type of typologically marked prehead relative clause has developed under Chinese influence in at least three independent but parallel cases, once in Karen, once in Bai, and once in Tsat (Thurgood and Li, in preparation), has been extended, under the influence of Mandarin, to include other constructions quite new to Tsat.

(43) ?di⁵⁵ nan³³ sa³³ mo³³ si^{ll} may³³ sa³³. (Zheng 1997:73)

lie.down that GEN cow be female GEN

tǎng nà de huángniú shì mǔ de

tǎngzhe de nà tóu huángniú shì mǔ de.

‘The yellow cow lying down is female.’

The second is the use of the Mandarin borrowing *si*^{ll} to mark the equative construction; the Chamic languages seem to use simple juxtaposition.

And the third is the use of a postposed *sa*³³ as a nominalization in the *may*³³ *sa*³³ ‘female’. All three reflect Mandarin influence.

Other languages

None of this is restricted to Tsat, of course. Strikingly parallel developments are in progress throughout the Chinese dominated area of Asia. Everywhere where intense Chinese influence is manifested languages are undergoing major restructuring, resulting in word order variation and change. Contrary to the general belief that a very long period of time of persistent contact is needed for structural borrowing to occur, the wholesale restructuring is taking place quite rapidly. Intensity of contact more than duration seems to be the crucial factor. The level of bilingual proficiency and the instability of the social structure of the borrowing language seem to have a major impact on the length of time needed and the extent of the structural shift in contact induced changes.

Oroqen

For instance, in the southeastern and central dialect regions of Oroqen (a Tungusic language of the northeast; Li and Whaley 2000, Whaley, Grenoble, and Li 1999; Li 2000, Sun and Li 2001; Whaley and Li 1998, 2000), Chinese contact did not occur until after the settlement in the late 1950s and early 1960s. Nonetheless, within a short span of only a few decades, we already see signs of strong contact influence on the grammatical structure of the language. A case in point is the fact that one of our informants from the central dialect region

used the adverb *mafaŋ*, which is a Chinese borrowing meaning ‘immediately’ spontaneously without noticing it. When fed the Oroqen word *diyaldzi* meaning the same thing, he accepted it, but strongly prefers the Chinese borrowing. Interestingly enough, our informants from the western and northeastern dialect regions adamantly rejected the Chinese form insisting that it is not an Oroqen word.

Even in the northeastern dialect region where Oroqen is preserved the best, we saw strong Chinese influence, which is shown in the examples in (44).

- (44) a) *ʃi tɪmana* *ŋənə-ni* *yəfa*
 you tomorrow go-2SG.PRES Q.2SG.PRES
 ‘Are you going tomorrow or not?’
- b) *yabuʃa* *haʃi* *yəfa*
 walk.PAST still-be Q.PAST
 ‘Went or not?’

In (44), we have two examples of the A-not-A question formation in Oroqen. Notice that the informant produced the Chinese *haishi* ‘still be: or not’ in 44b). She did so without realizing it at all until it was pointed out to her. This informant feels at ease with both languages. In fact, she possesses native proficiency in both Chinese and Oroqen.

This kind of phenomenon suggests that when a speaker reaches a certain level of bilingual proficiency, borrowing between the languages is much more readily than is generally assumed in the literature. Thus, it does not take a very long time for a language to shift to a completely different typological pattern in its grammatical structures. Central to the rate of such structural shifts are sociolinguistic factors, particularly, the so-called intensity of

contact. Our work suggests that for both Tsat and Oroqen a crucial factor has been schooling in Mandarin.

Mulam

In Mulam (Zheng 1988), a Kam-Sui language of the Guangxi area related ultimately to Thai, is undergoing many of the same changes Tsat is: borrowing of conjunctions, adverbs, and prepositions along with the introduction of constructions with new word orders under the influence of Chinese. In fact, Mulam even has its own equivalent of the *sa*³³ construction, built on a different genitive marker but, like its Tsat counterpart, resembling the *de* construction of Mandarin.

Zheng Guoqiao (1988:173), in discussing the Mulam borrowing of Chinese adverbs and conjunctions, notes that “degree and quantity adverbs are all borrowed from Han” and that “borrowed adverbs generally are subject to the same syntactic rules as Han”. That is, what is borrowed is not just a lexical item but a lexical item along with accompanying syntax--in short, a construction.

Mulam, despite being its geographical distance from Tsat, has calqued the *de* construction of Mandarin very much as Tsat has, and Mulam is borrowing many of the same constructions along the representative morpheme, leading to convergence with Mandarin. Sometimes this has produced variation with the native patterns competing with the borrowed patterns; in other cases, the native pattern has been completely replaced.

The Mulam data would benefit from a broader historical perspective. It is not just Mulam, but the whole Kam-Sui branch of Tai-Kadai that shows such developments. A particularly striking example can be found in Kam (Dong). The northern dialects often have

more evidence of Mandarin influence than the southern dialects. For a comparison that largely supplements this paper, see Edmondson (ms.) and Long and Zheng (1998).

Observations

In short, under intense Chinese similar, rapid restructuring is occurring in geographically distant languages belonging to distinct language families: in Tsat, an Austronesian language of Hainan; in Oroqen, a Tungusic language much farther to the north; and in Mulam, a Tai-Kadai language found south of the Yangtze.

Although not our major focus, it is obvious that sociolinguistic factors rather than structural factors that provide the impetus for the word order changes. Although some linguists consider structural similarity and functional congruence as the most important factors in cases of grammatical borrowing (e.g. Weinreich (1953)), Tsat and Oroqen seem instead to support Thomason and Kaufman's contention (1988:35) that "it is the sociolinguistic history of the speakers, and not the structure of their language, that is the primary determinant of the linguistic outcome of language contact. Purely linguistic considerations are relevant but strictly secondary overall." In the case of Tsat, a major impetus to wholesale restructuring has been the fluency brought about by schooling in Mandarin.

Most central to the data presented are the paths of diachronic change. Grammatically, one configurational grammatical structure is being replaced by another, construction-by-construction, with the older Chamic word order being replaced by its Mandarin equivalent. In some cases, the Mandarin-influenced construction, often marked by a transparently Mandarin grammatical morpheme, is simply a marked alternative, as with comparatives, but in other

constructions the word order of the native Chamic construction has been completely superseded, as with the genitives. The word order changes have entered the language as borrowed constructions, marked by a characteristic often-borrowed grammatical morpheme. Still further influence is manifested in the overgeneralization of calques, cf. the spread of the *sa*³³ construction in Tsat.

The complex set of conditions responsible for the restructuring are only partly explainable by internally and externally motivated principles proposed in the literature. A profound understanding of the situation must take account of the dynamic changes that take place in not only linguistic structures but in the social conditions as well. There is a range of social factors that contribute to borrowing and structural shifts. In the case of Tsat, encroaching bilingualism with a powerful dominant language (along with schooling and social mobility), are among the most prominent factors that lead to the massive borrowing and drastic structural shift.

The rapid changes taking place in these languages make it imperative that the nature of the speech community be specified in far more detail than it is now and as quickly as possible. We can already see that extensive language change in these particular languages whose speaker community is constituted by bi- or multi-lingual linguistic and ethnic minorities but the details need to be documented and the paths of change need to be examined. A lot more work needs to be done and done quickly before the languages in question cease to exist.

Finally, a comment on the obvious: It is the construction, rather than just its characterizing grammatical morpheme, that is the typical unit of borrowing.

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