SSILA Annual Meeting January 2008

The 'possessed noun suffix' and "possession" in two Northern Athabaskan languages

Andrea Wilhelm and Leslie Saxon
University of Victoria
wilhelm@uvic.ca saxon@uvic.ca

1. Introduction¹

• Dëne Suliné [Chipewyan] and Tlicho Yatiì [Dogrib] are neighbouring languages in the Athabaskan family spoken in large areas of the Northwest Territories of Canada and northern areas of the provinces of Alberta, Saskatchewan, and Manitoba²

1.1. The 'possessed noun suffix' (PNS)

Possessive structures in general:
 Possessor (N or/and pronom. affix) – Possessed N – PNS

(1) Dëne Sydiné

sejisé 'my mitten'

se-jis-é

1sg-mitten-PNS

Tłycho Yatiì

wetoò 'his/her pail'

we-to-ò

3-pail-PNS

• Dëne Suliné PNS: default vowel with marked tone Tincho Yatii PNS: extra mora/ copy of preceding vowel with marked tone

1.2. Variation in suffixation

• in addition to the full vocalic PNS above, there is a tonal suffix (marked tone only), and other nouns are possessed without suffix:

arked tone only	Tłįcho Yatti weti 'its lake' m :	Dêne Sylîné neké 'your shoes'	(2) a.
	cf. ti 'water, lake'	cf. ke 'shoe'	
no suffix	gok'oh 'someone's neck' cf. go- 'unspecified human'	sįtsį 'my nose' cf. sį- '1sg'	b.

We are grateful to Duk-F

¹ We are grateful to Duk-Ho An, Shirley Cardinal, Francesca Del Gobbo, Ernest Ennow, Jaap Feenstra, Ken Hiraiwa, John Janvier, Cecile Machatis, Nora Matchatis, Marlene Piché, Philip Rabesca, Betsy Ritter, Hotze Rullmann, Mary Siemens, Martina Wiltschko, audiences at WSCLA 12 and UVic; SSHRC (grant 410-2003-1514 to L. Saxon, fellowship 756-2005-0324 to A. Wilhelm); Cold Lake First Nations; Tłącho Community Services Agency, Behchokò; Dene Languages Research Group, UVic. The authors alone are responsible for any errors contained in this paper.

² Data are from fieldwork in Behchokò, NWT (Thcho Yatiì) and Cold Lake, Alberta (Dëne Suhné), as well as from dictionaries (DDBE 1996, E&E 1998, Biscaye 2002). Examples are written in the practical orthographies. Vowels with a cedille are nasal, accents represent tones, C' = glottalized C, voiced obstruent symbols represent plain voiceless obstruents, voiceless obstruent symbols represent voiceless aspirated obstruents. $j = \frac{dz}{d\theta} \frac{d\theta}{d\theta}$, $tth = \frac{d\theta}{d\theta}$, $sh = \frac{f}{g} \frac{d\theta}{d\theta}$

1.3. Goals

- > catalogue the distribution & variation of the PNS in Dëne Sųłıné and Tłıcho Yatıì
- correlate the distribution & variation with different structures for alienable and inalienable possession
- > show that the PNS marks not only possession, but generally serves to syntactically license a nominal
- > show that form & occurrence of the PNS are also partially lexically determined

1.4 Outline

- 2. The PNS and (in)alienability
- 3. Analysis of (in) alienable possession
- 4. Other environments for the PNS/nP
- 5. Compounds and the PNS
- 6. Implications and open questions

2. The PNS and (in)alienability

- Athabaskan languages all distinguish two categories of nouns in terms of whether a possessor must be expressed or not. The nouns for which a possesor must be expressed, termed "inalienably possessed", typically refer to parts of living things, kinship terms, and the like
- in general, alienable nouns show the full vocalic PNS, while inalienable nouns vary between vocalic suffix, tonal suffix, and no suffix

2.1 Alienable possession

- alienable nouns do not require a possessor
- most alienably possessed nouns show the **full vocalic PNS**:

(3) Dëne Sylıné

- a. sejisé se-jis-é 1sg-mitten-PNS 'my mitten'
- c. beyú**é**be-yú**-é**3-clothing-PNS
 'his/her clothing'
- (4) Tłįcho Yatiì
 - a. sets'aà se-ts'ah-à 1sg-cap-PNS 'my cap'
 - c. nelįį ne-tlį-į 2sg-dog-PNS 'your dog'

- b. bexeldhédhé be-xeldhéth-é 3-packsack-PNS 'his packsack'
- d. setsąba**é** se-tsąba-**é** 1sg-money'PNS 'my money'
- b. weto**ò** we-to-**ò** 3-pail-PNS 'his/her pail'
- d. gosoòmbaà go-soòmba-à 1pl-money-PNS 'our money'

SSILA 2008

- the relation between the two nouns does not have to be strict possession:
- (5) Dëne Syliné
 - a. sedzin**é** se-dz1-é 1sg-day-PNS 'my birthday'
 - c. sedáda**é** se-dáda-**é** 1sg-sickness-PNS
 - 'my sickness'
- (6) Tłycho Yatıì a. gonàowoò go-nàowo-ò Ipl-culture/law-PNS 'our culture, our law'

- b. berihtl'ísé be-?erihtl'is-é 3-paper-PNS 'his/her photograph; his/her debt'
- d. nuheyatı**é** nuhe-yatı-é 1/2pl-language-PNS 'our language'
- b. gıla**à** g1-la-**à** 3pl-work-PNS 'their work'
- [H = high tone; L = low tone]• some alienable nouns show a **tonal suffix** only:
- (7) Dëne Sulıné
 - a. neké ne-ke-H 2sg-shoe(s)-H 'vour shoes'
- (8) Tłicho Yatiì
 - a. sekè se-ke-L 1sg-shoe-L 'my shoe'

- b. wetì we-t₁-L 3-lake-L 'its lake'
- we are not, to date, aware of clear examples of alienably possessed **nouns without suffix** in the two languages
- as the Tłicho Yatıì PNS takes the form of a mora, and there are weight restrictions on syllables in the language (Marinakis 2004), phonology can obscure morphology at times
- similarly, in DS, the presence of a PNS cannot be determined in nouns already ending in -é, e.g., ts'éré 'blanket' – sets'éré 'my blanket', layúé 'tools' – belayúé 'his/her tools'
- this topic requires further research

2.2. Inalienable possession

- "inalienably possessed" nouns require a possessor
- the possessor can be generic, e.g. *dëne* 'person' (Dëne Suliné), 'unspecified' prefix *?e*-(Dëne Suliné, Tlicho Yatiì) or 'unspecified human' prefix *go* (Tlicho Yatiì)
- the inalienably possessed nouns refer to body parts and products of living things, intimate possessions such as names or trails, and kinship or other personal relationships
- the noun, when possessed, may be suffixed or not; there are three choices, the full vocalic PNS, the tonal PNS, or no marking; which option is chosen is unpredictable (see Appendix for similar variation in other Athapaskan languages)
- the underlying, non-possessed form of an inalienable noun can often be determined from compounds

• Full, vocalic PNS:

[noun is underlined, suffix is bold]

(9) L	Pëne Sylıné		compound showing non-possesse	ed noun
a.	dëní <u>chëné</u>	'(person's) arm'		(E&E 2)
b.	dënegán é	'(person's) arm'	cf. dënegánlá 'shoulderblade'	(Biscaye 6)
c.	dëne <u>tth</u> 'ú é	'(person's) breast'	cf. dënetth'utthílá 'nipple'	(Biscaye 6)
d.	?eghézé	'(someone's) egg'	(E&E 23,	Biscaye 28)
e.	?edzı é	'(someone's) heart'	cf. se <u>dze</u> reltth'ër 'I got scared'	(E&E 32)
10) 7	DI 1 17 . \			
	Tłįchǫ Yatıì			
a.	go <u>dzeè</u>	'(someone's) heart'	cf. go <u>dzeh</u> tł'iì 'vein'	
b.	go <u>daà</u>	'(someone's) eye'	cf. go <u>na</u> wò 'eyelid'	
c.	go <u>dzaà</u>	'(someone's) leg'	cf. godzaliì 'calf of the leg'	
d.	łıwe <u>t'ıì</u>	'fish scales' (lit., fish's s	scales)	

• Tonal suffix:

e. godo**ò**

(1

(11) <i>Dëne Syliné</i> a. dëne <u>lá</u> b. dëne <u>ké</u> c. dëne <u>dzí</u>	'(person's) hand' '(person's) foot' '(person's) heart'	cf. dëne <u>lag</u> ór 'knuckles' cf. dëne <u>ke</u> łtálé 'heel' cf. dëne <u>dzı</u> dıdhé 'lung'	(Biscaye 6) (Biscaye 6) (Biscaye 7)
(12) Tłącho Yatıì			

a.	regha	(someone's) hair, fur	cf. reghachji 'stubble'
b.	go <u>là</u>	'(someone's) hand'	cf. golakw'oò 'finger'
c.	go <u>kè</u>	'(someone's) foot'	cf. go <u>keg</u> ǫò 'toenail'
d.	go <u>ghòò</u>	'(someone's) tooth'	cf. gog <u>hoh</u> kwò 'gums'
e.	gog <u>ò</u> ò	'(someone's) arm'	cf. gog <u>òo</u> t'à 'shoulderblade'

'(someone's) blood'

No suffix:

(13) Dëne Sylıné

a.	dënenis	'(person's) waist'	(Biscaye 6)
b.	dëne <u>tth'</u> 1	'(person's) body'	(Biscaye 6)
c.	dënechı	'(person's) nostrils'	(Biscaye 5)
d.	dëne <u>la</u>	'(person's) cousin'	(Biscaye 2)
e.	setsų	'my mother-in-law, aunt'	

(14) Tłycho Yatiì

a.	go <u>n11</u>	'(someone's) waist'		
_			_	_

'(someone's) front of the body' b. gojo

'(someone's) neck' cf. k'oh 'clouds', nints'ik'oò 'windclouds' c. gok'oh

'(someone's) uncle' cf. 7eh 'jacket', go?eè 'our jacket' d. goreh

'(someone's) mother' e. gomo

3. Analysis of (in)alienable possession

3.1. Summary of data

(15)		Inalienable possession:	Alienable possession:
	syntax	- possessor obligatory	- possessor not obligatory
	semantics	- small set of semantic relations N_1 -	- N ₁ can stand in any semantic relation
		N_2	to N ₂
		- N ₂ not interpretable, "incomplete"	- N ₂ interpretable by itself, "complete"
		without N	

- usually vocalic PNS

- largely predictable

3.2. Proposal (largely due to Wilhelm and Saxon 2007)

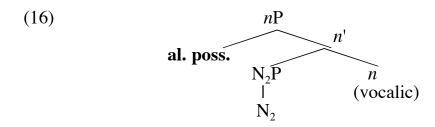
- unpredictable

Alienable possession:

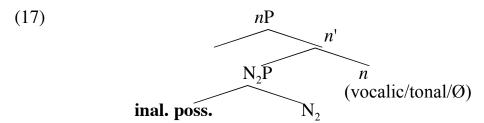
morphology

- N₂ has no inherent argument position
- N_1 is no argument, does not merge in N_2P
- to syntactically license N₁, an additional, functional layer of structure is needed
- PNS is the overt manifestation of this functional projection
- we propose this is nP, in analogy with vP or VoiceP in the verbal domain

- vocalic PNS, tonal suffix, no suffix



- Inalienable possession:
 - N_2 has an inherent argument position which is filled by N_1
 - as argument, N_1 merges within N_2P
 - possessive morphology is lexically specified (cf. also Appendix):
 - N_2 selects type of *n* head: vocalic, tonal, \emptyset
 - N_1 moves to/through Spec, nP, in order to become syntactically active



- \triangleright PNS/nP can occur due to lexical or syntactic requirements
- \rightarrow the function of PNS/nP is the syntactic licensing of a non-head constituent of a nominal expression
- > predictions:
 - (i) since inalienability is a lexical property of individual nouns, we expect variation across languages and dialects which nouns are inalienable
 - (ii) since inalienable and alienable possessors are merged in different positions, we expect co-occurrence of the two, i.e., double possession

3.3. Prediction (i): Lexical determination of inalienability

- we indeed find slight differences between Dëne Suliné and Tlicho Yatiì (and also between other languages of the family) with respect to which nouns are inalienable
- in (18) below, nouns are given in citation form as found in the respective dictionaries; a possessor (bolded) indicates inalienability

(18)	blood bone scab dandruff poop bladder eyelid wart name friend	Dëne Sytuné (E&E) dël tth'ën tur tthítsí retsáné lezdhéth nadhédh shíth dëne hızí dënets'énı	Tłycho Yatıì (DDBE) godoò gokw'çò goliì gokwìlè tsò eliiwò gonawò gowçò goizì aàgją	cf. <i>Tłącho Yatı</i> î kw'oò 'glacier' cf. <i>Dëne Syliné</i> ?e dhédh 'hide, skin'
	sand	thay	e waà	

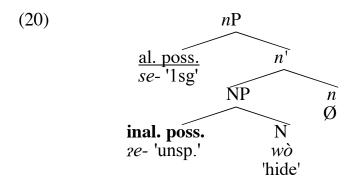
- the variation occurs with nouns which denote non-core instances of body parts or kinship relations (cf. Thompson 1996)
- the inalienability of *ewaà* 'sand' in Tłıcho Yatıì is surprising and requires further research

3.4. Prediction (ii): Double possession

- we find double possession in Tłıcho Yatıı (and in some other Athapaskan languages, e.g. Koyukon (Thompson 1996))
- double possession occurs in Tłıcho Yatıı when someone possesses the inalienable possession of a creature, such as a caribou head; in the examples the prefix indicating the alienable possessor is underlined and the 'unspecified' prefix **?e** indicating the animal (inalienable possessor) is shown in bold
- note that in cases of double possession, the lower, inalienable possessor is a nonreferential element; we attribute this to its inability to move into nP and become syntactically active
- (19) a. <u>se</u>**?e**wò 'my [animal] hide' 1sg-Unsp-hide

Tłįcho Yatıì

b. <u>ne</u>**?e**kwì 'your [animal] head' 2s-Unsp-head



4. Other environments for PNS/nP

• we predict that other nonhead constituents of nominal expressions are also merged in [Spec, nP] in order to be syntactically licensed

4.1. Numeral – unit noun combinations (cf. Saxon & Wilhelm 2007)

- nouns denoting a unit of measurement, when preceded by a numeral, show the vocalic PNS
- this contrasts with other numeral noun combinations, in which the noun is not possessed and the numeral must follow the noun (Tłıcho Yatıı) or may follow the noun (Dëne Sulıné)
- (21) *Tłycho Yati*i: Num N_{Poss} a. nàke dzę**ę** 'two days' two day.PNS

b. tai toò 'three nights'

three night.PNS

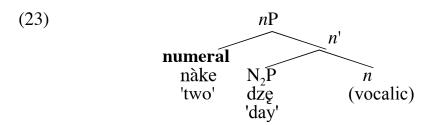
c. d₁ sadzeè 'four hours'

four clock/hour

d. ¡łè libòò 'one cup' [of flour, tea, etc] one cup.PNS

Dëne Sutiné: Num – N_{Poss} 'one day' day.PNS one

b. náke nën**é** 'two years' year.PNS two



4.2. "Characteristic" relative clauses

- ordinary relative clauses in Dëne Suliné and Tlicho Yatiì follow the head noun, if there is a head external to the clause (see Saxon 2000 on relative clauses in The Yatii)
- in relative clauses which serve to characterize an entity, the relative clause precedes the head noun and the relative clause's verb is nominalized
- the head noun, to the best of our understanding, is always suffixed with the vocalic PNS

(24) Dëne Syliné

a.	[tsádhéth	kanıdhënı]	dën é	(E&E 70)
	beaver.fur	want.Nom	person.PNS	
	ltmannam!		-	

'trapper' hoghelehi] dën**é** b. [tsaba (E&E 66)money collect pl O.Nom person.PNS

'tax collector' dëné c. [nálzéhi] (E&E 34)hunt.Nom person.PNS

'hunter' d. [há?onełteni] honié (E&E 48)teach.Nom story.PNS 'parable' (lit. 'story that teaches')

(25)Tłycho Yatiì

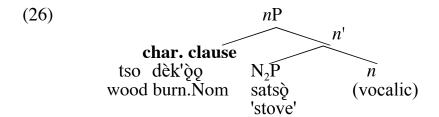
> a. [behchi] k'èdìi doò (DCSB 7) vehicle drive.Nom person.PNS 'driver' (lit. 'person who drives vehicles')

> b. [edets'egoo] dzeè (DCSB 24) UH.fast.Nom day.PNS 'day of fasting'

> c. [wet'à gokwìghà k'enazetsee datłe**è** (DCSB 113) 3.with UH.hair be washed.Nom soap.PNS 'shampoo' (lit. 'soap with which one's hair is washed')

SSILA 2008

d. [tso dèk'òo] satsòò wood burn.Nom stove.PNS 'wood-burning stove'



5. Compounds and the PNS

- compounding is extremely productive in Athabaskan languages, from our observations; that is certainly true for the two languages under discussion
- many compounds involve possessive morphology, both the vocalic PNS or the tonal suffix; other compounds show no suffixation
- whether and what kind of suffixation occurs is unpredictable (cf. also Appendix)

(27) cf. English compounds involving possessive morphology:

baby's-breath lady's-slipper monkshood Heart's Content [placename] neat's-foot oil fool's gold foolscap Mary's Cove [placename]

5.1. Compounds with PNS

(28) Dëne Syliné

(data from fieldnotes and E&E)

(DCSB 104)

a. alienable head noun (head noun and PNS in bold)

jíe tué	'wine'	jíe 'berries' + tu 'water' + PNS
Łuechogh tué	'Cold Lake'	łuechogh 'big fish' + tu 'water/lake' + PNS
beschogh dëné	'American'	beschogh 'big knife' + dëne 'person + PNS
nóneshe dëné	'farmer'	nóneshe 'vegetables' + dëne 'person' + PNS
k'es lézé	'ashes'	k'es 'tree/poplar' + lés 'dust' + PNS
ganı dıé	'spruce hen'	ganı 'pıne' + dı 'chıcken, ptarmıgan' + PNS
dení jíé	'mooseberry'	deníe 'moose' + jíe 'berry' + PNS
tu tłesé	'coal oil'	tu 'water' + tles 'lard, oıl' + PNS
łįchogh tł'oláé	'oats'	łıchogh 'horse' + tł'olá 'graın' + PNS
jếth tửulé	'fish line'	jëth 'hook' & tł'ule 'rope' + PNS
sekuıtł'a télé	'diaper'	sekui-tł'a 'child-bum' + tél 'blanket, covering'
		+ PNS
la yúé	'tools'	-la 'hand' + yú 'clothing, equipment' + PNS

b. *inalienable* head noun (head noun and PNS in bold)

tł'ogh 'grass' + -la 'tɪp' + tonal suffix tł'o**lá** 'grain' ?ejëretth'úé ?ejëre 'cow' + -tth'ú 'breast' + PNS 'milk'

?edhédh 'hıde' + -chën 'arm, ?edhéechëné 'stretcher, frame for scraping

hides' wooden' + PNS

?erihtl'ís 'paper' + -chën 'arm, wooden' + PNS ?erihtł'íschëné 'pencil, pen'

Tłycho Yatıì (29)

a. alienable head noun (head noun and PNS in bold)

'thunder clouds' eezh11 'thunder' +k'oh 'cloud' + PNS eezhiik'oò deh 'river' + tı 'lake' + PNS dehtì 'lake in the flow of a river' cheko **ohdaà** 'adult' cheko 'young person' + ohdaa 'elder' + PNS Ezodzee Zaa 'November' Ezodzeè 'All Saint's Day' + sa 'month' + PNS bebìa daèhteè 'crib' bebia 'baby' + daèhte 'bed' + PNS ıt'ò**gòò** 'caterpillar' ıt'ò 'leaf' + gòo 'worm' + PNS 'water bucket' ti 'water + to 'container' + PNS tı**toò** kaobo**kè** kaobo 'cowboy' + ke 'shoe' + PNS 'cowboy boots' choh?eè 'raincoat' cho 'rain' + ?eh 'clothing' + PNS tłehtł'iì 'starter cord on engine' tłeh 'oil' + tł'ıh 'rope' + PNS

b. *inalienable* head noun (head noun and PNS in bold)

2ahkw'oò 'snowshoe frame' ?ah 'snowshoe' + -kw'oò 'bone' tłicho 'horse' + -diì 'feed (n)' tłichodii 'oatmeal'

5.2. Compounds without PNS

Dëne Sylıné (30)

(data from fieldnotes and E&E)

a. alienable head noun (head noun in bold)

tutılı 'bottle' tu 'water' + tılı 'container' tthetili 'crock, jug' tthe 'stone' + tılı 'container' 'kettle' chedh 'duck' + tılı 'container' chedh tılı dechën 'wood' + bes 'knıfe' dechën bes 'hand saw' chą 'rain' + '?ih' jacket' cha?1h 'raincoat' łes 'urine' + tth'áy 'dish' łestth'áy 'chamberpot' dechën 'wood' + ke 'shoe' [formerly made of wood] dechën**ke** 'boots' dzéhke 'rubber shoes' dzeh 'gum' + ke 'shoes' tsatsáne 'metal' + yú 'clothing' tsatsáne yú 'armour' dechën**tél** 'floor' dechën 'wood' + tél 'blanket, covering'

?edzaghé tł'uł ?edzaghé 'ear' + tł'ulı 'rope' 'earring'

b. inalienable head noun (head noun in bold)

k'ásba tthến	'chicken (meat)'	k'ásba 'chicken' + -tthến 'meat, skin'
?ejëre tthën	'beef'	?ejëre 'cow' + -tthén 'meat, skin'
dënetł'á tthén	'buttocks'	dënetł'á 'person-bum' + -tthén 'meat, skin'
dlíe ni	'peanut'	dlíe 'squirrel' + -ni 'food'
dëne ni	'food'	dëne 'person' + -nı 'food'
na dhédh	'eyelid'	-na 'eye' + -dhédh 'hıde, skın'

(31) Tłącho Yatiì

a. alienable head noun (head noun in bold)

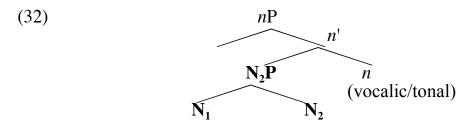
tłeh tł'ıh 'g	gasline'	tłeh 'oil' + tł'ıh 'rope'
tł'à ?eh 'j	pants'	tł'à 'bottom' + ?eh 'clothing'
lìbalà ?eh 'j	parka'	libalà 'canvas' +2eh 'clothing'
dechi ke 'l	boots'	dechį 'wood' + ke 'shoe' [formerly made of wood]
satsò ke 's	skates'	satsò 'metal' + ke 'shoe'
ewòh ke 'l	hide slippers'	ewò 'hide' + ke 'shoe'
eja to 'g	glass jar'	eja 'glass, window' + to 'container'
łè dzèh 'd	clay'	łè 'flour/powder' + dzèh 'gum'

b. inalienable head noun (head noun in bold)

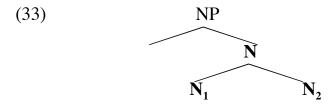
dedìı wò	'moosehide'	dedìı 'moose' + -wò 'hide, covering'
kw'ıh wò	'mosquito net'	kw'ıh 'mosquito' + -wò 'hide, covering'
soòmba wò	'wallet'	soòmba 'money' + -wò 'hide, covering'
datįh tł'à	'eye of a needle'	datı 'needle' + tł'à 'bottom'
kw'à chè	'frying pan'	kw'à 'plate' + -chè 'tail'
nòda zhaa	'lynx kitten'	nòda 'lynx' + -zhaa 'child, offspring'
tłį mę	'mother dog'	tłį 'dog' + -mo 'mother'

5.3 Analysis of compounds

- compounds with PNS
 - we propose that compounds with PNS have the same structure as inalienably possessed nouns, i.e., N_1 merges in N_2P , and N_2 selects the type of n
 - N_1 does not move and stays syntactically inactive



- compounds without PNS
 - we propose that compounds without PNS are a complex N
 - neither is N_1 an argument of N_2 , nor is there an additional functional layer
 - since the two nouns merge below NP, N_2 does not select an n head
 - N₂ "loses its inalienability" through the compounding process



6. Implications and open questions

6.1. The "possessive" construction expresses more than just "possession"

- the possessive construction/PNS has the general function to license a nonhead constituent of a nominal expression
- the semantic relations between N_1 and N_2 are diverse and open-ended: "owns", "is associated with", "is characterized by", "measures X amount", etc.
- this can be formalized semantically as a general relation R (Williams 1980, Higginbotham 1983, Mühlbauer 2004, Saxon & Wilhelm 2007)
- R can be further specified by lexical semantics or by context (Higginbotham 1983, Szabolcsi 1994)

6.2. Inalienable possession is different

- a closer semantic and syntactic relation than alienable possession
- the inalienable possessor is an argument of N₂
- it orginates in a lower structural position than an alienable possessor (for us, within NP)
- in order to become syntactically active, it must move out of NP
- cf. Haiman (1995), Čroft (1991), Chappell & McGregor (1996), Mühlbauer (2004), Barrie and Alboiu (2007) & references therein for the closer semantic & syntactic relation of inalienable possessor and possessed noun

6.3. Lexicon and syntax

- our analysis assumes three levels of nominal expressions at which N_1 and N_2 can merge: N, NP, nP (cf. Wiltschko, to appear, for similar ideas)
- N and NP: "lexical" domain; nP: syntactic domain
- possession cross-cuts these domains: PNS/n may occur due to lexical or syntactic requirements
- the effect, as observed, is that form and function do not correlate exactly

6.4. Other types of compounds

• we wish to extend our analysis to other types of compounds, e.g.:

• Numeral + Noun:

(34) a. Dëne Syliné

7ɨláhkóg'household'7ɨláh 'one, once' + kóg 'house' (+PNS?)7ɨláyúé'suit'7ɨlá 'one' + yú 'clothing' + PNSNákedziné'Tuesday'náke 'two' + dzị 'day' + PNS

b. Tłycho Yatiì

ıłèhkò 'household' ıłè 'one' + kò 'house/town' (+PNS?)

Dıhko 'Four Communities' [placename] dı 'four' + ko 'house/town' (+PNS?)

Nåke**dzęę** 'Tuesday' nàke 'two' + dzę 'day' + PNS Tai**dzęę** 'Wednesday' tai 'three' + dzę 'day' + PNS

• Adverbial + Noun:

- adverbials of time and space can combine with nouns to form compounds

(35) a. Dëne Syliné

the compounds shown here occur in a postpositional phrase

duhúdziné k'e 'today' duhú 'now' + dzi 'day' + PNS + P tthidziné k'e 'yesterday' tth'i 'also' + dzi 'day' + PNS + P

b. Tłycho Yatiì

Įndàà Kò 'Fort Resolution' [placename] įndàà 'far across' + kò 'house/town'

ek'èdae dzęę 'next day' ek'èdae 'next' + dzę 'day' + PNS

ek'ète nınts'ı 'crosswind' ek'ète 'crossed' + nınts'ı 'wind' +PNS

• Deverbal nominalization + Noun:

- a very productive means for forming compound nouns in Dëne Suliné and Tlycho Yatıì
- the nominalizing suffix that appears on the verb takes the form -*i* in Dëne Suliné and in Tlicho Yatiì is an additional vocalic mora on the host verb
- as we saw in section 4.2., a verb phrase of any size is eligible for nominalization
- to the best of our understanding, the head noun in this type of compound is always suffixed with the PNS

(36) Dëne Suliné

Łuets'eldélı **Dzıné** 'Friday' fısh-eatıng + day + PNS Pelhelı **dëné** 'drummer' drumming + person + PNS

(37) Theho Yatiì

nàzèe **doò** 'hunter' hunting + person + PNS sinìyaehtii **doò** 'judge' judging + person + PNS distributing [food] + person + PNS

nats'eetee **ko** 'hotel, bedroom' staying overnight + house (+PNS?) eghàlats'eedaa **cheè** 'employment cheque' working + cheque + PNS

k'èhoèraa **dzęę** 'holiday' relaxing + day + PNS

wek'èhodìı **ekwòò** 'reindeer' being looked after + caribou + PNS wet'à detlaa **tl'iì** 'starter cord' starting with it + rope + PNS

6.5. "Unpossessible" nouns

- some nouns cannot enter the possessive construction discussed in this paper
- they require a periphrastic possessive construction which involves the inflected postposition etymologically derived from 'from': -ts'p (Dëne Suliné), -ts'p (Tlicho Yatiì)
- this postposition is also used predicatively to assert possession:
- (38) Behtsı standard wets'ç. vehicle 3.from

Tłįchǫ Yatıì

'He has a standard [transmission] vehicle'

- the possessed noun has no suffix in the periphrastic construction
- the languages that use this strategy in indicating possession show different patterns for its use, and there is some potential for the periphrastic construction to be used variably with a range of alienably possessed nouns that can be inflected
- (39) Dëne Suliné blocking effect
 - a. sets'<u>i</u> li 'my dog' (Cold Lake dialect)

1sg.P dog

- b. ?? selįé 'my dog' (Cold Lake dialect) cf. selįé 'my daughter' 1sg.dog.PNS
- (40) Tłycho Yatii non-nativized loanwords
 - a. sets'o truck 'my truck' * se truck (my truck)
 1sg.P 1sg-truck
 - b. gots'o bus 'our bus'

1pl.P

c. nets'o phone 'your phone'

2sg.P

d. wets'o computer 'her computer'

3.P

- cf. secheè 'my cheque' che < English cheque selıbòò 'my cup' lıbò < French $le\ p\hat{o}t$
- (41) Tłącho Yatii complex deverbal nouns
 - a. rechįįlįį 'spoon' sets'o rechįįlįį 'my spoon' * serechįįlįį / * serechįįlįį 1sg.P spoon 1s.spoon.PNS 1s.spoon
 - b. sets'o bełexàa 'my scissors'c. nets'o wet'à gok'ets'eetii 'your broom'

2sg.P broom

- d. nets'o nakwenàoroo 'your prophet' (DTC Romans 11:3)
- cf. Nohtsıı 'God' seNohtsıı 'my God' yatı 'words' seyatıı 'my words'

APPENDIX: Crosslinguistic observations on the choice of the possessed noun suffix

1. *Proto-Athabaskan* (Leer 2006: 279)

"The possessed noun suffix had two allomorphs: *-' (glottal stigma) after a full vowel, and *-e' after a consonant or glottal stop. (Note that I use the symbol /'/ for syllable-final glottal stop, considering it to be a stigma (glottal modification of a vowel or sonorant) rather than a canonical stop consonant; see Leer 1991 [sections 2.1.4 and 5.1.1] and Leer 1999.)"

2. *Slave* (Rice 1989: 212ff)

"The possessive suffix $-\acute{e}$ is required by many nouns when they are in the possessive construction. This suffix indicates alienable possession. Because not all nouns occur with this suffix, those that do not must be lexically marked as such. [...] There is a second possessive suffix found in Slave, a high tone. This suffix is used to indicate inalienable possession. [...] Not all inalienably possessed nouns occur with this suffix. Many take the suffix $-\acute{e}$. [...] While the suffix $-\acute{e}$ has the general meaning alienable possession and $-\acute{e}$ that of inalienable possession, this is only a very general guideline to their actual usage."

3. *Witsuwit*'*en* (Hargus 2007: 238ff)

"The possessed stem of a noun can be predicted with great certainty if the non-possessed stem ends in a stop. With vowel-final nouns, the possessed stem appears to be formed via the additional of the possessive suffix -? unless there is a lexically lited possessed stem. With other consonant final nouns, there is so much variability that it appears that the possessed stem, if it exists, is lexically listed." (245)

4. *Tanacross* (Holton 2000: 149ff)

"Alienable possession is marked by a vocalic suffix $-\hat{\epsilon}_2$, and inalienable possession is marked by a non-vocalic suffix $-\hat{\epsilon}_2$. The latter consists of glottal stop together with high tone. In addition to this morphological distinction between alienable and inalienable possession, there exists a similar but not entirely congruent lexical distinction in inherent possession. Nouns which are inherently possessed may or may not include a possessive suffix, but when they do they always marks possession via the inalienable suffix. Most nouns which are not inherently possessed mark possession via the alienable suffix, though a limited number of not inherently possessed nouns may mark possession via either suffix." (149)

5. *Koyukon* (Thompson 1996)

• on possessive suffixes:

"Koyukon nouns are also typically marked as alienably possessed by the addition of the suffix -e' to the noun. [...] A stem ending in a vowel takes only the glottal stop -' as a possessive suffix" (654)

"The possessive suffix -e' does not always occur with alienably possessed nouns. I claim in this section that semantic/pragmatic factors enter into the choice of whether or not to use this suffix, but also that in any cases the absence of the suffix is due to as yet unknown historical factors." (662)

• on alienability

"The question of whether an item is considered inalienable, I believe, is tied to three factors: (1) the degree of its connectednss to the possessor (or the degree of its separability), (2) the degree of its cultural association with the possessor, and, (3) the degree of its salience apart from the possessor." (674)

(42)	Markers of	possession in	Koyukon	Athabaskan	(Thompson	1996:665)

1		` 1	,
Inalienable Noun Types	Suffix	No Suffix	Total
Kinship Terms	9	21	30
-	30%	70%	100%
Human Body Parts	61	45	106
•	57.5%	42.5%	100%
Animal Body Parts	22	4	26
•	84.6%	15.4%	100%
Plant Parts	10	1	11
	90.9%	9.1%	100%
Alienable Nouns	49	1	50 (from native lexicon)
	98%	2%	100%

[&]quot;I interpret these figures as indicating that generic (or cultural) salience plays some role in the choice of whether to have a possessive suffix on inalienably possessed nouns--the further away from humans, the more likely there is to be a suffix. If, however, one is far enough way to be alien, then the likelihood of a suffix again decreases. This is the reason that "unpossessible" nouns and loan words take no possessive suffix. As mentioned above, terms for wild animals take no possessive suffix, while those for pets do." (664f)

References

Barrie, Michael and Alboiu, Gabriela. 2007. Notes on the (semi)reflexive in Iroquoian. Paper presented at WSCLA 12, University of Lethbridge, 29 March 2007.

Biscaye, Elizabeth (Sabet), ed. 2002. *Dëne Súlin Yati Topical Dictionary*. Akaitcho Territory Government.

Chappell, Hilary and William McGregor, eds. 1996. *The Grammar of Inalienability. A Typological Perspective on Body Part Terms and the Part-Whole Relation*. New York: Mouton de Gruyter.

Croft, William. 1991. Typology and universals. Cambridge: Cambridge University Press.

DDBE: Dogrib Divisional Board of Education. 1996. *Tłącho Yatù Enąhtł'è / A Dogrib Dictionary*. Rae-Edzo: Dogrib Divisional Board of Education. Available online (enlarged and up-dated) at http://tlicho.ling.uvic.ca/

DTC: Dogrib Translation Committee. 2003. *Nòhtsų Nuhtl'è, Zezì wegòhlų tl'axoò* [translation of the New Testament]. Toronto: Canadian Bible Society.

E&E: Elford, Leon W. & Elford, Marjorie. 1998. *Dene (Chipewyan) Dictionary*. Prince Albert, SK: Northern Canada Mission Distributors.

Haiman, John. 1985. Iconicity in syntax. Amsterdam: John Benjamins.

Hargus, Sharon. 2007. Witsuwit'en Grammar: Phonetics, Phonology, Morphology. Vancouver: UBC Press.

Higginbotham, James. 1983. Logical Form, Binding, and Nominals. *Linguistic Inquiry* 14:395–420.

Holton, Gary. 2000. *The phonology and morphology of the Tanacross Athabaskan language*. Doctoral dissertation, University of California Santa Barbara.

Leer, Jeff. 2005. How stress shapes the stem-suffix complex in Athabaskan. In Sharon Hargus and Keren Rice, eds., *Athabaskan Prosody*, John Benjamins, Amsterdam. 277-318.

Marinakis, Aliki. 2004. Seeking Simplicity: The preference for minimal syllable structure in Dogrib. Unpublished MA thesis, University of Victoria.

- Mühlbauer, Jeff. 2004. Possessor relations in Nêhiyawêwin. Presentation given at the Annual Meeting of the Canadian Linguistic Association/Association Linguistique Canadienne, Winnipeg, University of Manitoba.
- Rice, Keren. 1989. A Grammar of Slave. Berlin: Mouton de Gruyter.
- Saxon, Leslie. 2000. Head-internal relative clauses in Dogrib (Athapaskan). In Andrew Carnie, Eloise Jelinek, and Mary Willie, eds., *Papers in Honor of Ken Hale*, MIT Working Papers on Endangered and Less Familiar Languages #1, Department of Linguistics, MIT. 93-108.
- Saxon, Leslie and Andrea Wilhelm. 2007. The syntax of numerals in two Dene languages. Paper presented at the 12th Workshop on Structure and Constituency in the Languages of the Americas (WSCLA 12), Lethbridge, AB, March 31–April 1, 2007. Downloadable at http://web.uvic.ca/ling/faculty/wilhelm.htm
- Szabolcsi, Anna. 1994. The Noun Phrase. In Ferenc Kiefer and Katalin É. Kiss, eds., *Syntax and Semantics vol. 27: The Syntactic Structure of Hungarian*. San Diego: Academic Press. 179–274.
- Thompson, Chad. 1996. On the grammar of body parts in Koyukon Athapaskan. In Hilary Chappell and William McGregor, eds., *The Grammar of Inalienability. A Typological Perspective on Body Part Terms and the Part-Whole Relation*. New York: Mouton de Gruyter. 651–676.
- Williams, Edwin. 1980. Predication. Linguistic Inquiry 11:203-238.
- Wiltschko, Martina. To appear. √Root Incorporation. Evidence from Lexical Suffixes in Halkomelem Salish. Ms, University of British Columbia. (Please contact the author for publication info.)