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- (2) *na = ajôclô y-i-shi lha = a'acjyuc*
 D₁ = bird 3-be.located-LOC₃ D_{1,F} = tree
 'El pájaro está en el árbol./ The bird is in the tree.' (I see the bird and the tree)

5 Nivacle grammatical nominalization: Structures

- Fully nominalized clauses headed by a determiner (DP)
- None of the constructions contain any nominalizing morphology in the verb
- There can be degrees of embedding within the construction that reveal further complexity
- Examining four constructions

5.1 STRUCTURE 1: [DET = V (DP)]

- Determiner is directly cliticized to the verb (transitive or intransitive)⁶

- V [DET_o = A = V]_o
 (3) *ja-n-fac-ch'e ca = va = ja-van*
 1-CISL-say-LOC₂ D₃-PL.NONHUM = 1-see
 'Hablo de los que vi./ I talk about, those that I saw.'

- [DET_o = A-V]_s V
 (4) *ja = ja-van ∅-yacut*
 D₂ = 1-see 3-be.black
 'El que encontré es negro. / The one I found is black.'

Broader syntax:

- S of intransitive verb (4),(5),(6),(8), O of transitive verb (3), R of ditransitive verb (7), constituent of a copula (9)

Internal structure:

- Intransitive verb: determiner is co-referential with S argument indexed on verb (6), (7)
- Transitive verb: determiner can code either A or O argument (5) (8), and (3), (4)

- V [DET_A = A-V DP_o]_s
 (5) *y-ich lh-ja = yi-cunjan ja = nu'u*
 3-go D₂-F = 3-feed D₂ = dog
 'Se fue la que le dio de comer al perro. / The one (F) who fed the dog left.'

⁶ S = single argument of an intransitive verb, A = most 'agent-like' argument of a transitive verb, O = object of a transitive verb, R = recipient of a ditransitive verb, T = theme of a ditransitive verb

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- V [DET_s = s-V]_s
 (6) *∅-pitej ja = y-ich*
 3-be.tall D₂ = 3-go
 'Es alto el que se fue. / He's tall the one that left.'
- [DET_s = s-V]_R
 (7) *ja = nivaçle yi-jut-ei ja = vatfin ja = pi = ∅-t-êlô-i-vat-sham-in*
 D₂-man 3-give-LOC₁ D₂-candy D₂-PL.HUM = 3-CISL-dance-REFL-DIR₂-PLU
 'El hombre le dio caramelos a los que jugaban. /
 The man gave candy to those that were playing'

- [DET_T = A-V DP_R]_s
 (8) *ja = va = yi-jut-ei ja = pi = taôçl-s ∅-vatfin*
 D₂-PL.NONHUM = 3-give-LOC₁ D₂-PL.HUM = child-PL 3-candy
 'Lo que le dio a los niños son caramelos. What he gave the kids is candy.'

- [DET_A = A-V]
 (9) *ca'aj ja-pi = y-an-shicham-c'ôya*
 COP D₂-PL.HUM = 3-put-DIR.DOWN-VEN
 'Había los que los ponían abajo. / There were those that put (them) down.'

5.2 STRUCTURE 2: [DET = NOUN V (DP)]

- Can function as the S argument of an intransitive verb (10), (11), (12)
- Determiner can be coreferential with the A argument indexed on the verb (10), (12) or it can code the object of the verb (11)

- V [DET_A = NOUN A-V DP_o]_s
 (10) *y-ich lh-ja = nivacche yi-cunjan ja = nu'u*
 3-go D₂-F = woman 3-feed D₂ = dog
 'Se fue la mujer que le dio de comer al perro. / The woman who fed the dog left.'

- [DET_O = NOUN A-V]_s V
 (11) *ja = nu'u ja-van ∅-yacut*
 D₂ = dog 1-see 3-be.black
 'El perro que encontré es negro. / The dog I found is black.'

- [DET_A = NOUN A-V DP_o]_s
 (12) *ja = nivaçle yi-van lh-ja = nivacche yi-êlôn ca = nu'u*
 D₂ = man 3-see D₂-F = woman 3-kill D₂ = dog
 'El hombre vio a la mujer que mató al perro. / The man saw the woman who killed the dog.'

5.3 STRUCTURE 3: [DET=*n* V (DP)]

- Determiner cliticizes to the morpheme *n*, analyzed as a relativizer by Stell (1989)
- This construction employed as S or O arguments (13), (15) and (14) respectively
- Determiners are co-referential with the argument indexed on the verb

[DET_s=*n* s-V]_s
 (13) Ø-*pitej* **ja-n** *y-ich*
 3-be.tall 3-n 3-go
 'Es alto el que se fue. / He's tall the one that left.'

[DET_s=*n* s-V]_o
 (14) *yi-tjôven-elh* **pa=n** Ø-*ônlhapa*
 3-compete-PL D₄=*n* 3-be.not.good
 '...competir con la que no era buena / ...compete with the one that wasn't good'

[DET_i=*n* A-V DP_o]_s
 (15) *y-ich* **lh-ja=n** *yi-cun-jan* *ja=nu'u*
 3-go D_{2-F}=*n* 3-feed D₂=dog
 'Se fue la que le dio de comer al perro. / The one (F) who fed the dog left.'

5.4 STRUCTURE 4: [DET=*NOUN*_i DET=*n*_i V (DP)]

- Determiner on the head noun is followed by an identical determiner cliticized to the *n* morpheme
- Employed as S arguments of intransitive verbs (16-17)

V [DET=*NOUN*_A DET=*n*_i A-V DP_o]_s
 (16) *y-ich* **lh-ja=nivacche** **lh-ja=n** *yi-cunjan* *ja=nu'u*
 3-go D_{2-F}=woman D_{2-F}=*n* 3-feed D₂=dog
 'Se fue la mujer que le dio de comer al perro. / The woman who fed the dog left.'

- The DP_o of the verb *cayijôacji* '(to) sleep' is a STRUCTURE 1 grammatical nominalization

[DET=*NOUN*_i DET=*n*_i A-V DP_o]_s
 (17) *ja=jpôyich* *ja=n* *ja-yetaj-esh* *ca=yi-jô-acji* Ø-*is*
 D₂=casa D₂=*n* 1-want-INST D₃=3-sleep-DIR.IN 3-be beautiful
 'La casa en la que quiero dormir es linda.'
 'The house in which I want to sleep is beautiful.'

6 Interim Summary

Four types of constructions:

CNX 1: [DET=*V* (DP)]
 CNX 2: [DET=*NOUN* V (DP)]

CNX 3: [DET=*n* V (DP)]

CNX 4: [DET=*NOUN* DET=*n* V (DP)]

- In the broader syntax these nominalized structures function as complements of matrix verbs
- The internal structure reveals embedded clauses/ relative clause functions⁷
- Employ the same constructions to fulfill these functions

7 Nominalization: hypothesis

- A Common diachronic pathway for nominalization is through clause integration (Hopper & Traugott 1993)
- Suppression of a co-referential argument in a paratactic structure can give rise to a single clause containing a 'nominalized' subordinate clause as a core argument (Lehman 1988, Matthiessen & Thompson 1988)
- Integration: S₁ + S₂ → S₁[S₂] (Heine & Kuteva 2007:224)
- In certain Nivacle syntactic configurations, when the co-referential argument of the matrix verb is *adjacent* to the verb in the nominalized constituent, these four constructions can be employed

AV{O_i A_i}VO : Two transitive clauses where O of first clause is co-referential with A of second

	A	V	O _i	A _i	V	O
	man	see	woman	woman	kill	dog
(18)	<i>ja=nivaçle</i>	<i>yi-van</i>	<i>lh-ja=nivacche</i>	<i>lh-ja=nivacche</i>	<i>yi-êlôn</i>	<i>ca=nu'u</i>
	D ₂ =man	3-see	D _{2-F} =woman	D _{2-F} =woman	3-kill	D ₃ =dog
	'The man saw the woman.' 'The woman killed the dog.'					
(19)	<i>ja=nivaçle</i>	<i>yi-van</i>	lh-ja=nivacche_i	lh-ja=n_i	<i>yi-êlôn</i>	<i>ca=nu'u</i> (Cnx 4)
(20)	<i>ja=nivaçle</i>	<i>yi-van</i>		lh-ja=n_i	<i>yi-êlôn</i>	<i>ca=nu'u</i> (Cnx 3)
	'El hombre vió a la mujer que mató al perro.'					
	'The man saw the woman who killed the dog.'					

⁷ Relative clauses without relativizing morphology headed solely by deictic determiners are also described in Chorote (Carol 2011:418).

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	A	V	O_i	A_i	V	O
Stage	man	see	woman	woman	kill	dog
0	<i>ja = nivačle</i>	<i>yi-van</i>	<i>lh-ja = nivacche.</i>	<i>lh-ja = nivacche</i>	<i>yičlôn</i>	<i>ca = nu'u</i>
	D ₂ =man	3-see	D ₂ ,F=woman	D ₂ ,F=woman	3-kill	D ₃ =dog
	'The man saw the woman.'		'The woman killed the dog.'			
Cnx 1	<i>ja = nivačle</i>	<i>yi-van</i>	lh-ja = nivacche_i		<i>yi-člôn ca = nu'u</i>	
Cnx 2	<i>ja = nivačle</i>	<i>yi-van</i>	lh-ja =		<i>yi-člôn ca = nu'u</i>	
			'El hombre vió a la mujer que mató al perro.'			
			'The man saw the woman who killed the dog.'			

7.1 Exceptions

- When a co-referential argument between the matrix verb and verb in the nominalized constituent is *non-adjacent*, only constructions with *n* can be employed (Cnxs 3,4)

	[A _i	V	O]	S _i -V	
	[D-n	A-V	DP _o] _s	V	
(21) a.	<i>lha = n</i>	<i>yi-van</i>	<i>ja = nu'u</i>	<i>yi-ch'injô</i>	b. * <i>lha = yivan</i> <i>ja = nu'u</i> <i>yich'injô</i>
	D ₂ ,F=n	3-see	D ₂ =dog	1POSS-sister	
	'La que vió al perro es mi hermana. The one (F) that saw the dog is my sister.'				

	A _i -V	[A _i	O]	
	[D-NOUN	D-n	s-V] _o	
(22)	<i>ja-van</i>	<i>ja = ∅-pitej</i>	<i>ja-n</i>	<i>y-ich</i> b. * <i>javan japitej</i> <i>ja = yich</i>
	1SG-see	D ₂ =3-be.tall	D ₂ -n	3-go
	'Vi al alto que se fue / I saw the tall (one) leave.'			

8 Conclusion

- Grammatical nominalization is a pervasive strategy in Nivacle
- Typologically, these constructions only display one of the common properties found in grammatical nominalization: the presence of determiners
- Possibly origins in historical clause integration → nominalized constituents
- Determiners synchronically functioning as 'nominalizers'
- Ongoing research into these structures in texts

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Abbreviations

1	first person	LOC	locative suffix
3	third person	M	masculine
CIS	cislocative	NONHUM	non-human
D	determiner	O	object
F	feminine	PL	plural
HUM	human	POSS	possessive person prefix
INS	instrumental		

Nivacle orthography corresponds to the IPA with these exceptions: <j> = /x/, <y> = /j/, <c> = /k/, <'> = the glottal stop /ʔ/ or glottalization on a consonant or vowel, <čl> = /kl/, <lh> = /l/, <ch> = /tʃ/, and <ô> = /ə/ or /ɒ/.

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