# Voice and grammatical relations in Lamaholot of eastern Indonesia\*

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## 1 Indonesian-type voice systems and eastern Indonesia

This paper presents an analysis of voice and grammatical relations in the Lewotobi dialect of the Lamaholot language, framing this language and its voice systems in the context of Indonesian-type voice systems. According to Ross (2002), Arka and Ross (2005b), and Himmelmann (2005), among others, Indonesian-type voice systems are characterized by the combination of (i) a voice system with two or three symmetrical voice alternations and (ii) applicative morphology. Geographically, languages with Indonesian-type voice systems are found mainly in Malaysia and western Indonesia.

In contrast, Austronesian languages in eastern Indonesia are believed not to display voice phenomena of this kind (Arka and Ross 2005b, Himmelmann 2005). It is said that languages in this region "either do not show any grammaticized voice alternations at all or the voice alternations are clearly asymmetrical" (Himmelmann 2005:114). However, in this paper, I argue that this characterization is not true of Lamaholot, an Austronesian language of eastern Indonesia; rather this eastern Indonesian language represents voice systems of the Indonesian-type. By closely examining formal variations of voice alternations and factors for voice selection in Lamaholot, I demonstrate that Lamaholot uses periphrastic means, such as agreement markers, verb serialization, and word order, in order to express various voice and transitivity-related oppositions. I also show that two different kinds of grammatical relations are to be posited for the purpose of describing these phenomena: the semantico-syntactic grammatical relations (subject, primary object, secondary object, and oblique) and the pragmatico-syntactic grammatical relation (topic).

This paper is organized as follows. In Section 2, I provide a preliminary sketch of the Lamaholot language and its typological characteristics. This language is almost an isolating language and a typical example of "preposed possessor languages." In Section 3, however, I demonstrate that this isolating language has various periphrastic means for expressing voice and transitivity-related functional domains. These voice phenomena without voice morphology define and interact with grammatical relations, which are explored in Section 4. In Section 5, then, the topic, another type of grammatical relation, is introduced to describe the Actor-Topic and Undergoer-Topic constructions. Finally, Section 6 concludes this paper with some remarks upon the symmetry of Lamaholot voice systems.

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# 2 Lamaholot, an Austronesian language of eastern Indonesia

Lamaholot is a Central Malayo-Polynesian language of the Austronesian language family (Blust 1993; cf. Donohue and Grimes 2008). It is spoken in the eastern part of Flores Island and neighboring islands of eastern Indonesia, almost serving as the lingua franca of the region (Grimes et al. 1997). Lamaholot is best understood as a dialect chain with enough substantial differences between some of the dialects, so as to make them mutually incomprehensible (Keraf 1978; Bowden 2008). In this description, I focus exclusively on Lewotobi, the most westerly dialect in the chain. This dialect is spoken by approximately 6,000 speakers in Kecamatan Ile Bura. Other dialects studied with some detail include the Lamalera dialect (Keraf 1978) and the Lewoingu dialect (Nishiyama and Kelen 2007).

Two notes on the typological characteristics of Lamaholot are in order. First, Lamaholot is nearly an isolating language. Flores languages, including Lamamhot, are known for having little morphology (Himmelmann 2005; Arka 2007; Donohue 2007a; McWhorter 2007). Its grammatical formatives are S/A-agreement prefixes (Table 1), S-agreement enclitics (Table 2), the possessive markers ~ and  $= k\tilde{\sigma}$ , the pronominal possessive marker  $-\tilde{\sigma}$ ?, and several others.<sup>1, 2</sup> Central to my investigation is the lack of any affix dedicated for voice and valence-related functions.

Ta	ble	1: S/	A-agreement prefix	tes T	abl	e 2: S-a	greement enclitics
		SG	PL			SG	PL
	1	k-	<b>m-</b> (EXC)		1	=ə?	=kə (EXC)
			t- (INC)				=kə (INC)
	2	m-	<b>m-</b>		2	=ko	=kə
_	3	n-	r-		3	=a?	=ka

Second, Lamaholot is a typical instance of "preposed possessor languages," despite "transitional languages" being predominant in this island (Nagaya 2009a, b; see Himmelmann 2005 for preposed possessor and transitional languages; cf. Klamer 2002; Donohue 2007a; Musgrave 2008a). This language represents an array of typical eastern Indonesian features. For instance, the basic word order is SVO; there is person marking for S and A arguments (Table 1); a (lexical) possessor precedes its possessum as in (1)a and (1)b; inalienable and alienable possessions take different constructions as in (1)a and (1)b; nouns precede numerals as in (1)c; and the negator and other TAM markers occur in the clause-final position as in (1)d.

(1)	a. Hugo	laŋo? =kə̃	b. Hugo	kotã?	(0	cf. kotə? 'head')
	Hugo	house = POSS	Hugo	head.po	OSS	
	'Hugo's h	iouse'	'Hugo's h	nead'		
	c. ata	rua	d. go	isə	kbako	həla?.
	person	two	1SG	suck	tobacco	NEG
	'two perso	'I don't si	noke.'			

<sup>1</sup> Abbreviations used in the paper are: CONJ-conjunction, DEM-demonstrative, DIR-directional, EMP-emphatic marker, EXC-exclusive, INC-inclusive, NEG-negator, PL-plural, POSS-possessive, REL-relativizer, SG-singular, 1-first person, 2-second person, and 3-third person.

<sup>2</sup> S/A-agreement prefixes obligatorily occur with certain verbs, either transitive or intransitive; S-agreement enclitics are optionally used with intransitive verbs.

# **3** Voice oppositions without voice morphology

Lamaholot does not have any morphological means for voice and valence-changing operations, but it uses agreement enclitics, verb serialization and other periphrastic means for these purposes (Nagaya 2009b). In this section, I briefly survey how these functional domains are expressed in Lamaholot. For the sake of convenience, I divided voice and transitivity-related phenomena into two types: *semantically-based* and *pragmatically-motivated* voice phenomena (Shibatani 2006; cf. "semantic and pragmatic de-transitive voice constructions" in Givón 2001).

#### 3.1 Semantically-based voice oppositions

Semantically-based voice alternations are those in which different voice forms represent different conceptual contents in terms of parameters pertaining to the evolution of an action (Shibatani 2006): for instance, does the action extend beyond the agent's personal sphere or is it confined to it (active vs. middle), does the action achieve the intended effect in a distinct patient (active/ergative vs. antipassive), does the action originate with an agent heading the action chain that is distinct from the agent or patient of the main action (causative vs. non-causative), and so on. In Lamaholot, voice contrasts of this kind are expressed by (i) S-agreement enclitics and (ii) the demonstrative *ia*.

(i) S-agreement enclitics Syntactic transitivity of Lamaholot verbs is lexically determined. Some verbs are strictly transitive or intransitive; others are ambitransitive, being used either intransitively or transitively. Although there is no transitivity marker *per se* in this language, the syntactic transitivity of an ambitransitive verb can be explicitly indicated by the existence or absence of the S-agreement enclitics in Table 2, which mark the person and number of an intransitive subject. Since they are only used for intransitive verbs, agreement enclitics function practically as markers of syntactic transitivity and thus express semantically-based voice contrasts by means of an alternation between an intransitive verb with an agreement enclitic and a transitive one without: (2) an antipassive (Health 1976; Levin 1993), (3) a middle/reflexive, and (4) an anticausative.

(2)	Antipassive: a. go kã pao. 1SG eat.1SG mango	(transitive)
	'I ate a/the mango.' b. go $k\tilde{a} = na?.^{3}$ 1SG eat.1SG =1SG	(antipassive/indefinite object deletion)
	'I ate (a meal or something one typically	eats).
(3)	Middle/reflexive:	
	a. go həbo ana? go?ẽ.	(causative)
	1sg bathe child 1sg.poss	
	'I bathed my child.'	
	b. go həbo =ə?.	(middle)
	1sg bathe =1sg	
	'I took a bath.'	

<sup>3</sup> The verb for "eat" is the only verb that inflects for person and number and agrees with S and A arguments. Note also that the initial consonant of S-agreement affixes becomes the alveolar nasal [n] after a nasalized vowel.

(4) Anticausative:

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a. go ləŋa wato. (causative)

1SG fall stone

'I dropped the stone down (accidentally).'

b. go ləŋa =ə?. (inchoative)

1SG fall =1SG

'I fell down.'
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(ii) **Demonstrative** *ia* One of the functions of the demonstrative *ia* is to introduce an oblique argument. When it is used with verbs of contact, this demonstrative indicates an incomplete or unintended contact. See (5). It is also used in a prepositional recipient construction (Section 4.2).

(5) Conative alternation:
a. go tədu =ə? ia knəbi. (conative) 1SG collide =1SG DEM wall 'I (almost) collided with the wall' or 'I collided with the wall (accidentally).'
b. go tədu knəbi. (non-conative) 'I collided with the wall (intentionally).'

#### **3.2 Pragmatically-motivated voice oppositions**

Pragmatically-motivated voice alternations are those in which different voice constructions are contrasted in terms of topicality and other discourse factors. For example, the English passive construction represents such a voice contrast. Its pragmatic function is to indicate that an agent is more topical than a patient by bringing a patient into the subject position.

For pragmatically-motivated voice alternations, Lamaholot uses periphrastic strategies: word order, verb serialization, the demonstrative *ia*, and the third person plural pronoun. As shown in Section 4, these alternations change the grammatical relation of an argument from one relation to another, bringing about different interpretations in reference-tracking.

(i) Actor-Topic and Undergoer-Topic constructions Lamaholot has two competing (mono- and di-) transitive constructions, the Actor-Topic and the Undergoer-Topic constructions (Nagaya 2009a, b).<sup>4</sup> The Actor-Topic construction is a transitive clause with Actor-Verb-Undergoer word order, a subject argument being in the sentence-initial position. In the Undergoer-Topic construction, in contrast, a non-subject core argument occupies the sentence-initial position, yielding Undergoer-Actor-Verb word order. In terms of surface structure, the UT construction uses the same UAV word order as inverse in Standard Indonesian (Donohue 2007b, 2008) and passive in Palu'e (Donohue 2005). In Section 5.3, I return to this contrast and demonstrate that neither of the two analyses is applicable to the contrast between the AT and the UT constructions.

(ii) Antidative and benefactive The antidative and benefactive alternations are used for promoting a recipient and a beneficiary of high topicality into the primary object position respectively. I return to these constructions in the discussion of the primary object and secondary object in Section 4.2.

<sup>4</sup> Here "actor" corresponds to A arguments, while "undergoer" is a cover term for P, R, and T arguments.

(iii) Plural agent constructions Lamaholot does not have a morphological passive, but expresses an agent's low topicality by means of the third person plural pronoun *ra*. Plural agent constructions in (6) and (7) indicate that someone non-specific or unknown did something to the speaker.<sup>5</sup> This construction may be interpreted as an incipient stage of passive in the sense of "agent-defocusing" (Shibatani 1985).

(6) ra bəŋo go.
3PL hit 1SG
'Someone hit me' or 'I was hit.'
(7) ra broka go.

3PL cheat 1SG 'Someone cheated me' or 'I was cheated.'

#### 3.3 Summary

Flores languages are said to be isolating languages, and Lamaholot does lack any morphological means for voice oppositions. This Flores language, however, uses periphrastic strategies like agreement markers and word order for distinguishing voice categories. In this sense, Lamaholot has voice alternations without voice morphology (Donohue 2004, 2005; Arka and Kosmas 2005; Shibatani 2008a, 2009a, to name a few). Based on these observations, I examine the grammatical relations of this language in the next section.

# 4 Grammatical relations in Lamaholot

In this and the following sections, I argue that two kinds of grammatical relations must be distinguished in order to fully understand Lamaholot morphosyntax: the semantico-syntactic grammatical relations (subject, primary object, secondary object, and oblique) and the pragmatico-syntactic grammatical relation (topic) (cf. Shibatani 2008a, b, 2009a). The former grammatical relations are semantically-motivated syntactic categories, while the latter is a grammaticalized pragmatic category. A similar distinction is also made in a Lexical-Functional Grammar framework ("argument functions" vs. "nonargument functions," and "(grammaticalized) discourse functions" vs. "non-discourse functions"; Bresnan 2001:97-98). The A-position and A'-position in a Government and Binding framework is related to the distinction in question, too. The contrast between agent-like subject and topic-like subject has also been a point of contention in Japanese linguistics for centuries (Shibatani 1991), and has long been known as the distinction between role-related and reference-related properties of subjects in Philippine linguistics (Schachter 1976).

In this section, I look closely at the semantico-syntactic grammatical relations. Let us begin by introducing the well-known semantico-syntactic roles listed in (8) (Comrie 1978; Dixon 1979, 1994; Dryer 1986, 2007). For the purpose of this paper, ditransitive clauses are syntactically defined and thus are equivalent to double-object constructions, although they are often semantically captured in typological studies on three-place predicates (Haspelmath 2005; Margetts and Austin 2007).<sup>6</sup>

- (8) Semantico-syntactic roles:
  - S Single argument in an intransitive clause
  - A More agent-like argument in a transitive clause
  - P More patient-like argument in a transitive clause

<sup>5</sup> They also have an ordinary interpretation that more than one identifiable person hit the speaker.

<sup>6</sup> Accordingly, an argument bearing a theme role (or a recipient role) is considered as T (or R) only when it appears in a syntactically defined ditransitive clause. See Section 4.2.

- T Theme argument in a ditransitive clause
- R Recipient argument in a ditransitive clause

Semantico-syntactic grammatical relations refer to those higher-order groupings of these roles that are required in the analysis of grammatical phenomena of an individual language (cf. Dixon 1979, 1994; Dryer 1986, 2007). In Lamaholot, the semantico-syntactic grammatical relations listed in (9) are relevant to its morphosyntactic phenomena and are to be postulated for their description.



As has been demonstrated by many recent typological works (Dryer 1997; Croft 2001), grammatical relations are construction-specific and thus language-specific concepts. In the rest of this section, I demonstrate how the grammatical relations above are justified in Lamaholot by examining the constructions where S and A are treated alike as opposed to P (Section 4.1), and those where P behaves like R and differently from T (Section 4.2).

#### 4.1 Subjects {S, A} in Lamaholot

(10)

There are several morphosyntactic phenomena that constitute evidence that S and A arguments behave alike in Lamaholot. Evidence comes from both the structural coding and behavioral potential of S and A arguments (see Keenan 1976 and Croft 2001 for structural coding and behavioral potential). Two structural coding phenomena are relevant to S and A arguments. First, only S and A arguments can appear directly to the left of the verb without any prepositional marking. Second, only S and A arguments can agree with verbs in terms of person and number. Observe that S/A-agreement prefixes (Table 1) agree with S and A but not P in (10).

a. S n-a?i=a? kae?. na 3sg 3sg-leave=3sg PERFECTIVE 'He or she has already left.' c. P b. A tua?. go k-enu tua?. \*go n-enu 1sg 1sg-drink 1sg 3sg-drink tuak tuak 'I drink tuak.' Intended for 'I drink tuak.'

Turning to behavioral potential, only subjects can bind the reflexive expression *waki* 'self.' See (11). Moreover, in the *kadi?*-coordination construction, only subjects can control a

gap in the second clause as in (12). Lastly, the addressee of an imperative must be in the subject relation. See (13).

(11)	Reflexive wak	ki 'self'	constru	ction.		
(11)	a. Hugo					[SUBJ = antecedent,
	Hugo	1			DSS	OBJ = reflexive]
	'Hugo pra					L
	b. *wəki	nə?ẽ		plewõ	Hugo.	*[SUBJ = reflexive,
	self		DSS	praise	Hugo	OBJ = antecedent]
(12)	<i>Kədi ?</i> -coordir	nation:				
	a. $S \rightarrow S$ :					
	na gaka,			•		
	3sg cry		<b>N</b>	return		
	'S/he cried,		·	rned.		
	b. $A \rightarrow S$ , but				arrali	
	na bəŋo 3sg hit				gwan. return	
	'S/he hit m			turned '	Ictuill	
(13)	Imperative co			turneu.		
(15)	a. S addressee		0115.			
	mo gõ		kia	ka!		
	2sg eat.2s			EMP		
	'You eat!'					
	b. A addresse	e:				
	mo gõ		kia	ka!		
	2sg eat.2s		now	EMP		
	'You eat (th	/	"			
	c. P addressee		1.			
	*ra bəŋo		kia	ka!		
	3PL hit			EMP		
	Intended for	or ben	nt by th			

#### 4.2 Primary object {P, R} and secondary object {T} in Lamaholot

Lamaholot also provides an array of evidence for the primary object relation and the secondary object relation. Let us look at structural coding first. In terms of word order, P and R arguments appear directly to the right of the verb. Even if it is realized as a zero pronoun, the existence of a P or R argument may be indirectly indicated by the absence of S-agreement enclitics. Second, the third person singular pronoun =ro? can be coreferential with only P and R arguments.<sup>7, 8</sup> Observe that in transitive construction (14) =ro? refers to the P argument, while the same pronoun designates the R argument in ditransitive construction (15).

<sup>7</sup> The pronoun =ro2 is an enclitic pronoun for the third person singular. It can occur with the free personal pronoun *na*. See (a) and (b). However, it is not an agreement marker; it cannot be used with a lexical noun in the same clause. See (c).

(a)	Hugo bəŋo	=ro?	na.	
	Hugo hit	=3sg	3sg	
	'Hugo hit him/	her.'		
(b)	Hugo sorõ	=ro?	na	gula.
	Hugo give	=3SG	3sg	candy

(14)	Transitive construction:							
	go	kõ	=ro?	ia	Ika.	A-V-P-Location		
	1SG	1sg.ea	at=3sg	DEM	Ika	SUBJ-PRED-PO-OBL		
	'I ate	it in Ika	a's hous	e.'				
(15)	5) Ditransitive/Double-object construction:							
	a. go	sorõ	Ika	doi.		A-V-R-T		
	1sg	give	Ika	money	7	SUB-PRED-PO-SO		
	ʻI g	ave Ika	money.					
	b. go sorõ =ro?			doi.		A-V-R-T		
	1sg	give	=3sg	money	7	SUBJ-PRED-PO-SO		
'I gave <b>him/her</b> money.'								

Turning to behavioral potential, P, R, and T arguments are involved in two syntactic alternations, the antidative and the benefactive alternations. My analysis of the two alternations is presented in advance in (16) and (17) for ease of reference.

(16)	Antidative alternation ( $\leftarrow$ Topicality of a recipient) <sup>9</sup>							
	a. Preposition	a. Prepositional recipient construction:						
	Agent	Verb	Theme	ia	Recipi	ent		
	SUBJ	PRED	PO	DEM	OBL			
	b. Double-ob	ject constructio	n:					
	Agent	Verb	Recipient	Them	e			
	SUBJ	PRED	PO	SO				
(17)	Benefactive a	alternation ( $\leftarrow$ ]	Fopicality of a l	ty of a beneficiary)				
	a. Benefactiv	e serial verb co	nstruction (with	h a biva	lent pree	dicate):		
	Agent	Verb	Patient	neĩ/so	rõ	Beneficiary		
	SUBJ	PRED	PO	give OBL		OBL		
	b. Benefactiv	e construction:						
	Agent	Predicate	Beneficiary	Patien	t			
	SUBJ	PRED	PO	OBL (	chômeu	ur)		

The antidative alternation is one where the double-object construction is contrasted with the prepositional recipient construction in terms of the topicality of a recipient. Compare (15) and (18). The recipient *Ika* is foregrounded in the former, while the theme *doi* 'money' is highlighted in the latter. Crucially, what is referred to by =ro? is the recipient in double-object construction (15)b but the theme in prepositional recipient construction (18)b. Only

'Hugo gave him/her a candy.'
(c) \*Hugo bəŋo =ro? gblakĩ. Hugo hit =3sG man Intended for 'Hugo hit the man.'

<sup>8</sup> Since P and R arguments are treated alike and T differently, Lamaholot ditransitive constructions represent a secundative alignment type in the typology of alignment patterns for ditransitive clauses (Haspelmath 2005; Siewierska 2003). However, this observation is true only when the enclitic pronoun =ro2 appears in a sentence. If not, this language shows a neutral alignment.

<sup>9</sup> Like Lamaholot, English has two common constructions for representing R and T arguments in ditransitive clauses, namely, the double-object construction and the prepositional object construction. Dryer (2007:254) notes: "Many other languages employ constructions which are similar to one or the other of these two constructions in English, though it is less common to have both constructions, the way English does."

verbs of giving and sending, namely, *neĩ* 'give', *sorõ* 'give' and *gnato* 'send' can be involved in this alternation.

(18)	Prepositional recipient construction:							
	a. go	sorõ	doi	ia	Ika.	A-V-P-Recipient		
	1sg	give	money	DEM	Ika	SUBJ-PRED-PO-OBL		
	ʻI g	ave mor	ney to Il	ka.'				
	b. go	sorõ	=ro?	ia	Ika.	A-V-P-Recipient		
	1sg	give	=3sg	DEM	Ika	SUBJ-PRED-PO-OBL		
	ʻI ga	ve it to	Ika.'					

In my analysis, the recipient argument bears the oblique relation in a prepositional recipient construction, because it is marked by the demonstrative *ia* (see (5) and (14) again). This is further borne out by its interaction with the Undergoer-Topic construction. First, observe that the UT construction distinguishes core arguments from non-core arguments: unlike core arguments, oblique arguments such as a companion and an instrument cannot be in the sentence-initial topic position of the UT construction. See (19) and (20).

(19)	Companion SVC:			
	a. go pana k-õ?õ	Ika.		[AT: Topic = Agent]
	1sG walk 1sG-d	o Ika		
	'I walked with Ik	a.'		
	b. *Ika go pana	k-ə?ə.		*[UT: Topic = Companion]
(20)	Instrument SVC:			
	a. go poro? ikõ	pake hepe	te?ẽ.	[AT: Topic = Agent]
	1sG cut fish	use knife	here.POSS	
	'I cut the fish wit	h this knife.'		
	b. *hepe te?ẽ,	go poro?	ikõ pake.	*[UT: Topic = Instrument]

Consider next the combination of the UT construction with the double-object and the prepositional recipient constructions. Both the recipient and the theme can occupy the topic position in the double-object construction as in (21), while only the theme can be in the topic in the prepositional recipient construction as in (22). This strengthens the case that the recipient participant is in the oblique relation in the prepositional recipient construction, whereas the theme is still a core argument in the double-object construction.

(21)UT construction + Double-object construction: a. Ika, sorõ gula. [Topic = Recipient] go Ika 1SG give candy b. gula, go sorõ Ika. [Topic = Theme] candy 1SG give Ika (22)UT construction + Prepositional recipient construction: a. doi, sorõ Ika. [Topic = Theme] ia go money 1SG give DEM Ika \*[Topic = Recipient] b. \*Ika, sorõ doi ia. go 1SG Ika give money DEM

To summarize, the double-object construction is a syntactically ditransitive construction, taking a recipient as PO and a theme as SO. The PO status of a recipient is guaranteed by co-

reference with the pronominal enclitic =ro?. Moreover, the core-argument status of PO and SO is supported by the fact that both can be topicalized in UT constructions. On the other hand, the prepositional recipient construction is a syntactically transitive construction that takes a theme as PO with a recipient as OBL. Taken together, the function of an antidative alternation lies in the manipulation of the topicality of a recipient. A recipient is foregrounded in the double-object construction but backgrounded in the prepositional recipient construction.

This antidative alternation is similar to, but functionally different from, the benefactive alternation, in which benefactive serial verb constructions (SVCs) are opposed with the benefactive construction in terms of the topicality of a beneficiary. On the one hand, Lamaholot introduces a beneficiary into a clause by serializing the verb of giving (either *neĩ* or *sorõ* 'give'). See (23).

(23)	Benefactive SVC:								
	a. go	soka	neĩ	Ika.		S-V-Beneficiary			
	1SG	dance	give	Ika		SUBJ-PRED-OBL			
	'I da	nce for	Ika.'						
	b. go	hope	gula	neĩ	Ika.	A-V-P-Beneficiary			
	1SG	buy	candy	give	Ika	SUBJ-PRED-PO-OBL			
	'I bought candies for Ika.'								
	c. go	hope	=ro?	neĩ	Ika.	A-V-P-Beneficiary			
	1SG	buy	=3sg	give	Ika	SUBJ-PRED-PO-OBL			
	ʻI bo	ught <b>it</b>	for Ika. <sup>7</sup>	,					

On the other hand, a relatively large number of transitive verbs of transaction and creation (BUY-verbs, COOK-verbs, etc.) can promote a beneficiary participant of high topicality into the primary object position. Compare (23) and (24). Notice that what is referred to by =ro? is the beneficiary argument, not the theme argument, in (24).

(24)	Benefactive cons	struction:	
	a. go hope Ik	ka gula.	A-V-P(Beneficiary)-Theme
	1SG buy Ik	ka candy	SUBJ-PRED-PO-OBL
	'I bought Ika	candies.' (cf. (23)b)	
	b. go hope =	ro? gula.	A-V-P(Beneficiary)-Theme
	1sg buy =	<b>3sg</b> candy	SUBJ-PRED-PO-OBL
	'I bought <b>him</b> /	<b>'her</b> candies.' (cf. (23)c)	

The oblique status of the theme in (24) is again confirmed by means of the UT construction. When the benefactive construction in (24) takes a UT construction, only the beneficiary can be in the sentence-initial topic position. This shows that the theme is in the oblique relation.

(25) UT construction + Benefactive construction:

a. Ika,	go	hope	gula.	[Topic = Beneficiary]
Ika	1SG	buy	candy	
'I bought	: Ika a ca	ndy.'		
b. *gula,	go	hope	Ika.	*[Topic = Theme]
candy	1SG	buy	Ika	

Thus, the antidative and the benefactive alternations look superficially similar but work in a different way (Dryer 1986; cf. Goldberg 2002), and can be understood only by distinguishing PO, SO and OBL. The primary object in Lamaholot can be defined by its position in a clause and by co-reference with the enclitic pronoun =ro?. It is also involved in the antidative and the benefactive alternations. In these two alternations, the division between PO/SO and OBL is highlighted. The former can be in the sentence-initial topic position in UT constructions, but the latter cannot.<sup>10</sup>

#### 4.3 Summary

In this section I have discussed the semantico-syntactic grammatical relations in Lamaholot, and argued that SUBJ, PO and SO can be distinguished in terms of the morphosyntactic phenomena summarized in Table 3.

SUBJ {S, A}	PO {P, R}	SO {T}		
[V (NP)]	[NP V]	[NP V NP _]		
Agreement	Enclitic pronoun = <i>ro</i> ?	Antidative		
Reflexivization	Antidative	UT construction		
Kədi?-coordination	Benefactive			
Addressee of an imperative	UT construction			

 Table 3: Semantico-syntactic grammatical relations in Lamaholot

# **5** Subject and topic: Actor-Topic and Undergoer-Topic constructions

As mentioned in Section 3.2, Lamaholot has two competing transitive constructions, the Actor-Topic and the Undergoer-Topic constructions. The Actor-Topic construction is a transitive clause with AVU word order, a subject argument being in the sentence-initial topic position. In the Undergoer-Topic construction, in contrast, a non-subject core argument (either PO or SO) occupies the topic position, yielding UAV word order. To illustrate, I compare the examples in (26). Importantly, there is no surface difference between the two constructions, either on the verb or on the nominals, except in word order. Although its

<sup>10</sup> Although there is no space to fully develop this argument here, the secondary object in Lamaholot should be considered as  $OBJ_{\theta}$  in an LFG framework (Bresnan 2001; Falk 2001): it is better defined as "a family of secondary OBJ functions associated with a particular, language-specific set of thematic roles" (Dalrymple 2006). In Lamaholot, two  $OBJ_{\theta}$  can be posited,  $OBJ_{THEME}$  for ditransitive events and  $OBJ_{STIMULUS}$  for mental events. Verbs of mental events, such as LOVE-verbs and HATE-verbs, take an experiencer as SUBJ and a stimulus as  $OBJ_{STIMULUS}$ . See (i). As is often the case with other Indonesian languages (Palu'e (Donohue 2005), Manggarai (Arka 2008), and Indonesian (Musgrave 2008)),  $OBJ_{STIMULUS}$  is marked differently from OBJ but can be in the TOP relation in the Undergoer-Topic constructions. See (ii). It can even acquire reference-tracking properties associated with TOP such as relativization. The defining features of  $OBJ_{\theta}$  in Lamaholot are, therefore, (a) thematically fixed, (b) appear only in ditransitive or mental events, (c) do not appear adjacent to the main verb and receive non-core marking, and (d) can be in the topic relation in the UT construction.

brea =ə? k-ə̃?ə̃ Nia. [AT construction] (i) go 1SG like =1SG 1sg-do Nia 'I like Nia.' brea=ə?. [UT construction] (ii) Nia. go

<sup>(</sup>II) NIA, go brea=ə?. [UI constru 'Nia, I like.'

precise characterization is discussed in Section 5.2, I refer to the sentence-initial argument in the AT and UT constructions as the topic.

(26)	a. AT const	ruction:		
	Tanti	bəŋo	Ika.	A(=TOP)-V-P
	Tanti	hit	Ika	
	'Tanti hit	t Ika.'		
	b. UT const	ruction:		
	Ika,	Tanti	bəŋo.	P(=TOP)-A-V
	Ika	Tanti	hit	
	ʻIka, Tan	ti hit (her)	).'	

In this section, I examine the nature of the AT-UT contrast in detail and make the following arguments. First, the UT constructions are pragmatically marked constructions (Section 5.1). Second, the topic relation needs to be posited for a better understanding of the contrast between the AT and the UT constructions (Section 5.2). Third and more crucially, this alternation does not change the semantico-syntactic grammatical relations (Section 5.3). My analysis of the two constructions is presented in advance in (27).

(27) Actor-Topic and Undergoer-Topic constructions ( Topicality of an undergoer)

a. Actor-Topic construction:			
Argument structure:	Agent	Verb	Patient
Semantico-syntactic GRs:	SUBJ	PRED	OBJ
Pragmatico-syntactic GR:	ТОР		
b. Undergoer-Topic construct	tion:		
Argument structure:	Patient	Agent	Verb
Semantico-syntactic GRs:	OBJ	SUBJ	PRED
Pragmatico-syntactic GR:	ТОР		

#### 5.1 Pragmatics of the AT and the UT constructions

According to native Lamaholot speakers' intuition, there is no doubt that AT constructions is more basic than UT constructions. When they were asked, my consultants clearly stated that an AT construction is more *biasa* "usual" than its UT counterpart. In elicitation sessions, they usually used an AT construction to answer the present author's questions. This observation is also borne out by text frequency. UT constructions rarely occur in the text data available at this point.

If AT constructions are basic and unmarked, then what is the best analysis of UT constructions? Analyzing the same constructional contrast in another Flores language, Palu'e, Donohue (2005) concludes that its UT construction is passive, via which an undergoer is promoted into the clause initial subject position (see also Arka and Kosmas 2005 for Manggarai passive; cf. Shibatani 2009a). Is this analysis also applicable to Lamaholot? In order to answer this question, it is necessary to examine more details of UT constructions here.

The most prominent characteristic of UT constructions is that they show properties often associated with topicalization or marked topic constructions in other languages (see "Ymovement" and "L-dislocation" in Givón 2001: Chapters 15 and 16). First, intonationally distinct contour is usually found on the undergoer of UT constructions. Second, intonational break (pause) is optionally placed after the undergoer of UT constructions. These characteristics are also found in topicalization of obliques as in (28). (28) go pana k-ã?ã Hugo.
1sG walk 1sG-do Hugo 'I walked with Hugo.'
→ kã?ã Hugo, go pana.

Third, UT constructions can be used only in main clauses, as is often the case with topicalization in topic-prominent languages such as Chinese and Japanese.<sup>11</sup>

These formal characteristics suggest that UT constructions share some features with topicalization. This raises a question about the pragmatic status of the undergoer of UT constructions. Interestingly, there exist pragmatic constraints on it. First, the undergoer of UT constructions cannot be the focus of answer in question-and-answer pairs. The portion of a sentence that corresponds to the answer of question is considered as focus (Halliday 1967). An undergoer can be the focus in an AT construction, but cannot in a UT construction, although an actor can be so in either construction. Compare (29) and (30).

Agent is the focus of answer: (29)Q: hege gã ikõ pe?ẽ? who eat.3sGfish that.POSS 'Who ate that fish?' A1: AT construction: Hugo ikã pe?ẽ. gõ eat.3sG fish Hugo that.POSS 'Hugo ate that fish.' A2: UT construction: ikõ pe?ẽ, Hugo gõ. 'That fish, Hugo ate.' (30)Patient is the focus of answer: Q: Hugo gã a:? Hugo eat.3sGwhat 'What did Hugo eat?' A1: AT construction: Hugo gõ ikõ. Hugo eat.3SGfish 'Hugo ate fish.' A2: UT construction: ?? ikõ. Hugo gõ. Hugo eat.3sG fish Intended for 'Fish, Hugo ate.'

Second, the undergoer of UT constructions cannot be the focus of negation. In (31), the fish *hua* is the focus of negation, being contrasted with the fish *kowi*. It cannot be in the sentence-initial topic position.

(31)	a. AT	constr	uction:					
	go	kõ	ikõ	hua	həla?,	kũ	ikõ	kowi?.
	1sg	eat.1	SG <b>fish</b>	tuna	NEG	but	fish	kowi

<sup>11</sup> For this reason, it is not possible to use control constructions and other PRO-related constructions as syntactic tests for distinguishing subject and topic in this language (cf. Shibatani 2008a, b, 2009a).

'I don't eat hua, but kowi.' b. UT construction: \*ikã hua, ikã kowi? go kõ həla?, kũ eat.1SGNEG fish kowi fish tuna 1SGbut Intended for 'I don't eat hua, but kowi.'

The data above show that the undergoer of UT constructions cannot be narrowly focused. In other words, it conveys topical/presupposed information rather than focal information.<sup>12</sup> Therefore, the UT constructions are best analyzed as topicalization.

#### **5.2 Establishing the topic relation**

The discussions in Section 5.1 might give the impression that the topic relation in Lamaholot is only defined in terms of left-dislocation and pragmatic presupposition and that it does not have any syntactic function, like the English topicalization. However, that is not the case. In this section, I claim that the topic relation in Lamaholot does display several behavioral properties that cannot be reduced to any simple semantic role or information structure and must be treated as another grammatical relation in this language.

As has been revealed through the examination of the antidative and the benefactive alternations, only core arguments can be topicalized in the UT constructions. In other words, the topic is a grouping of topical A, P, R, and T. In terms of structural coding, the topic relation appears in the sentence-initial position. As for behavioral potential, only topics can control a gap in the second clause in the *kia gə* coordination. The AT-UT contrast results in different interpretations. See (32) and (33).

(32) TOP  $\rightarrow$  S

a. AT construction: Besa n-oi Hugo kia pla?e. gə Hugo CONJ Besa 3sg-see CONJ run 'Besa saw Hugo and then (Besa) ran away.<sup>3</sup> b. UT construction: pla?e. Hugo, Besa n-oi kia gə Hugo Besa 3sg-see CONJ CONJ run 'Hugo, Besa saw (him) and then (Hugo) ran away.  $TOP \rightarrow S$ (33) a. AT construction: Ika pla?e. bəno Nia kia gə Ika hit CONJ Nia CONJ run 'Ika hit Nia and then (Ika) ran away.' b. UT construction: Nia. Ika bəno kia pla?e. gə Nia Ika hit CONJ CONJ run 'Nia, Ika hit (her) and then (Nia) ran away.'

(a) a: mo gõ? what 2SG eat.2SG 'What did you eat?'

<sup>12</sup> This sentence-initial position of UT constructions, however, somehow mysteriously accommodates *wh*-words as well. See (a).

Another topic-related construction is relativization. Only nominals bearing the topic relation (and a possessor of such nominals) can be relativized, regardless of their semantico-syntactic grammatical relation (cf. Kuno 1973<sup>13</sup>; Schachter 1973, 1976).<sup>14</sup>

(34)	SUBJ (S) ana? yang person REL						-	səna. cool
()	'The person w	ho wen	t to Lar	antuka	is cool.	,		
(35)	SUBJ (A) ana? yang person REL		work	house	here.Po	OSS	səna. cool	
(20)	'The person w	ho buil	t this ho	ouse is c	cool.'			
(36)	PO (P) ana? yang	ſ	<b>0</b> 0	banal	sona			
	person REL	L	go 1sg		cool			
	'The person w	ho I hit			0001			
(37)	Recipient:							
	a. PO $(R = Rec$	cipient)	in the o	double-	object c	onstruc	tion:	
	Ika ana?				neĩ	-		
	Ika person				give	candy		
	'Ika is the or		-		•			
	b. OBL (Recip						_	on:
	*Ika ana?						].	
	Ika person			-			· '	
(38)	Intended for Theme:	IKAIS	the one	e who i	gave a	candy to	0.	
(30)	a. SO $(T = The$	eme) in	the dou	uble-obi	ect con	structio	n <sup>.</sup>	
	te?ẽ		yang				Ika].	
	here.POSS				1sg		Ika	
	'This is the					0		
	b. PO $(P = The$				nal recip	oient co	nstructi	on:
			yang			neĩ	ia	Ika].
	here.POSS	candy	REL		1sg	give	DEM	Ika
	'This is the	candy I	gave to	o Ika.'				
(39)	Theme:							
	a. PO ( $P = The$	eme) in	the ben	efactive	e SVC:			
	te?ẽ	gula	yang	[	go	hope	neĩ	Ika].
	here.POSS	candy			1SG	buy	give	Ika
	'This is the	-	•					
	b. OBL (Them	ne) in th	e benef	active c	construc	tion:		
	*te?ẽ	-	yang	[go	hope	Ika	].	
		candy		1SG	buy	Ika		
	Intended for	r 'This i	is the ca	indy I b	ought I	ka.'		
(40)	Beneficiary:	<b>~</b> • ``		0		~		
	a. OBL (Benet	ticiary)	in the b	enetact	ive SV	<i>C</i> :		

<sup>13</sup> Kuno (1973)'s theory of relativization: "what is relativized is not an ordinary noun phrase, but the theme (NP-wa) [i.e. topic ---NN] of the relative clause." (ibid. 2)

<sup>14</sup> See Shibatani (2009b) for a nominalization-based account for relativization.

\*Ika ana? hope gula yang [go neĩ 1 Ika person REL 1SG buy candy give Intended for 'Ika is the person who I bought a candy for.' b. PO (Beneficiary) in the benefactive construction: Ika ana? yang go hope gula] Ika person REL 1SG buv candy 'Ika is the person who I bought a candy.' **OBL** (Companion): (41) \*Ika ana? yang [go pana k-ə̃?ə̃ \_\_]. Ika person REL 1SG walk 1sG-do Intended for 'Ika is the person with whom I walked.' (42)**OBL** (Instrument): \*te?ẽ hepe yang [go poro? ikõ pake 1. knife REL here.poss 1SG cut fish use Intended for 'This is the knife with which I cut the fish.' POSS of TOP: (43) ra məla ata dikõ oto =kõ. 3PL steal person =POSS car 'They stole the person's car.'  $\rightarrow$ UT construction: ata dikõ oto =kõ. ra məla. 'The person's car, they stole.'  $\rightarrow$ Relativization: ata dikõ =kõ yang oto ra məla] səna. 'The person whose car they stole is cool.'

As Kunio Nishiyama (p.c.) points out, this constraint on relativization may be explained in terms of a syntactic constraint on A-bar movement. In Lamaholot *wh*-questions, however, *wh*-words occur *in situ*, not triggering *wh*-movement (but see footnote 12). Moreover, a *wh*word can appear in a position that is not relativizable. In (44), for instance, the *wh*-word *hege* 'who' follows the serialized verb  $ne\tilde{i}$  'give' but the sentence is grammatical. Remember that the object of a serialized verb cannot be topicalized and thus is not relativizable as in (40)a. Therefore, it is difficult to postulate a single A-bar constraint on both relativization and *wh*question in this language.

(44) mo hope gula neĩ hege? 2SG buy candy give who 'Who did you buy a candy for?'

To summarize, the Undergoer-Topic construction is not a mere topicalization but involves inter-clausal reference-tracking phenomena. In order to make a full description of the phenomena, it is necessary to posit the topic relation independently of the semanticosyntactic grammatical relations. The difference between topic and subject/object is that the former is a grammaticalized pragmatic function, while the latter is a grammaticalized semantic function.

#### 5.3 Subject and topic

At the beginning of this section, I mentioned that similar construction types, namely transitive clauses with UAV word order, in other Indonesian languages have been analyzed

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differently by different researchers. To name a few, the Palu'e UAV construction is analyzed as passive [U = SUBJ, A = OBL] (Donohue 2005), while the Standard Indonesian UAV construction is considered inverse [U = SUBJ, A = OBJ] (Donohue 2007b, 2008).

The Lamaholot UT or UAV construction, however, rejects these analyses, because S and A arguments work as subject relative to the subject-related phenomena examined in Section 4.1, in either the AT or UT construction. First, the AT-UT contrast does not change agreement patterns. As in (45), A arguments agree with the verb in both the AT and the UT constructions. Even in the reflexivization of the UT construction, A arguments still control a reflexive expression. See (46). In the *kadi*? coordination, again, the AT-UT contrast does not change the interpretation of the sentences. Only A arguments can control a gap in the second clause. See (47). Lastly, the addressee of an imperative must be an A argument even in UT constructions as in (48).

(45)	Agreement:						
	a. go k-enu		tua?	te?ẽ		k-waro.	[AT; A agreement]
	1sg 1sg-d	rink	tuak	here.P	OSS	1sG-can	
	'I can drink	this tua	ık.'				
	b. tua? te?e,		go	k-enu		k-waro.	[UT; A agreement]
	tuak here.P	POSS	1sg	1sG-di	rink	1sG-can	
(46)	Reflexivization	on + UT	constru	uction:			
	a. wəki	nə?ẽ,		Hugo	plewã		[SUB = antecedent,
	self	3SG.PG	OSS	Hugo	praise		OBJ = reflexive]
	'Himself,	Hugo p	oraised.'				
	b. *Hugo,	wəki	nə?ẽ		plewõ		*[SUB = reflexive,
	Hugo	self	3sg.pg	OSS	praise		OBJ = antecedent]
(47)	<i>Kədi?</i> 'kemuc	dian' co	ordinati	on:			
	-	go,			gwali.		$[AT; A \rightarrow S]$
	3sg hit				return		
	'S/he hit me, and (s/he) returned.'						
	b. go, na						$[UT; A \rightarrow S]$
	1sg 3sg		then		return		
	'Me, s/he h						
(48)	Imperative co		ions + U	JT cons	truction	1:	
	a. A addresse						
	ikõ, mo	e		ka!			
	fish 2sg			EMP			
	'You eat (t	,	!				
	b. P addresse						
	*mo,		5	kia	ka!		
	2sg	3PL	hit	now	EMP		
	Intended for 'Be hit by them!'						

The data examined above clearly show that the alternation between AT and UT does not change semantico-syntactic grammatical relations like subject and object. Therefore, it is not appropriate to analyze this alternation as passive or inverse, which necessarily changes such grammatical relations. Instead, it is needed to postulate the topic relation independently of subject and object. Thus, the function of this alternation lies in changing the topic relation from one argument to another for pragmatic and reference-tracking purposes. The differences between subject and topic are summarized in Table 4.

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	1
SUBJ {S, A}	TOP {Topical A, P, R, T}
Agreement	Sentence-initial position
Reflexivization	Relativization
Kədi?-coordination	<i>Kia gə</i> -coordination
Addressee of an imperative	

Table 4: Subject and topic in Lamaholot

### **6** Conclusions

In this paper I have argued that Lamaholot, a Flores language with typical eastern Indonesian features, displays voice phenomena with periphrastic strategies. It has also been demonstrated how these voice phenomena change and interact with grammatical relations. Our conclusion is that two different sets of grammatical relations are required for a better understanding of these voice phenomena.

By way of conclusion, let us consider the question posed at the beginning of this paper, namely, the symmetry of Lamaholot voice systems. On the one hand, voice contrasts made by agreement markers, verb serialization, and the demonstrative *ia* are asymmetrical voice alternations in that one construction is syntactically more complex than another. In particular, the antidative and benefactive alternations serve much the same functions as the applicative morphology of Indonesian-type voice systems. On the other hand, the alternation between AT and UT is a symmetrical one; the two constructions differ only in word order. Importantly, this alternation does not affect the alignment of the semantico-syntactic grammatical relations. Therefore, this eastern Indonesian language displays a symmetrical non-demotional voice alternation, which is characteristic of symmetrical voice languages in the Philippines and western Indonesia.

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