



# Information Structure, Word Order and Differential Marking in Kelabit

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### Introduction



• **Kelabit** is a Western Austronesian (WAn) language spoken mainly in the Fourth and Fifth divisions of Sarawak, Malaysia (Martin 1996).

• It is part of the Apad Uat subgroup of Northern Sarawak which also includes Lun Bawang/Lundayeh, and Sa'ban (Kroeger 1998).

Data is based on fieldwork in Bario from 2013-2017.



#### Introduction



- Like other WAn languages, Kelabit has a system of symmetrical voice alternations
  which allow different mappings from arguments to functions without changes in the
  resulting transitivity
- The voice alternations correlate with **word order** there is a fixed post-verbal position for the non-subject core argument, whilst the subject is more flexible
- Finally, there is a reduced system of **case-marking** in the pronominal system in undergoer voice (UV), NOM and GEN forms are used differentially to mark non-subject actors.

#### Introduction



 Hence, in expressing two participant events, speakers make a choice of voice, word order and case.

- The aim of this paper:
  - > To consider how information structure interacts with these syntactic choices
  - > To consider the implications for WAn voice systems and information structure more generally

### Outline



- 1. Voice, Word-order and Case-marking in Kelabit
- 2. Information Structure and Word Order

- 3. Information Structure and Differential Marking
- 4. Conclusions





# Voice, Word Order and Case-Marking

#### **Kelabit Voice**



- In order to discuss word-order and case-marking it is necessary to introduce the Kelabit system of **symmetrical voice** alternations.
- Symmetrical voice is typical of WAn and gives speakers different ways of expressing events with (at least) two semantic arguments:
  - actor and undergoer.
- The constructions differ in their verbal morphology which corresponds to a different mapping of arguments to functions:
  - > subject and non-subject core argument.

### **Kelabit Voice**



(1a) **Actor Voice** 

> tesineh nedih Nengelaak nuba'

mother 3sg.poss PFV.AV.cook rice

'Her mother cooked rice'

**Subject** 

Root = laak

AV = neN-

UV = -in-

(1b) **Undergoer Voice** 

> nuba' Linaak tesineh nedih

PFV.UV.cook mother 3sg.poss

'Her mother cooked rice'

rice

Subject

#### Question

what determines voice selection?

### Kelabit Word Order - AV



(2a) <b>Pre-verk</b>
----------------------

La'ih sineh ne-kuman bua' kaber.
man DEM PFV-AV.eat fruit pineapple
'The man ate pineapple.'

#### (2b) **Post-object**

Ne-kuman bua' kaber la'ih sineh ngimalem.

PFV-AV.eat fruit pineapple man DEM yesterday

'The man ate pineapple yesterday.'

#### (2c) Clause-final

Ne-merey <u>nuba'</u> <u>ngen edteh anak</u> la'ih sineh

PFV-AV.give rice to one child man dem

'That man gave rice to a child'

# The **subject** is flexible:

- Pre-verbal
- Post-object
- Clause-final

The *non-subject core* argument is post-verbal

### Kelabit Word Order - UV



Bua' kaber kinan la'ih sineh fruit pineapple UV.PFV.eat man DEM

'The man ate pineapple.'

#### b. **Post-object**

kinan la'ih sineh bua' kaber <u>ngimalem</u>
UV.PFV.eat man DEM fruit pineapple yesterday

'The man ate pineapple yesterday.'

#### c. **Clause-final**

Kinan John ngimalem neh bua' kaber

UV.PFV.eat John yesterday PT fruit pineapple

'John ate his pineapple yesterday'

The **subject** is flexible:

- Pre-verbal
- Post-object
- Clause-final

The *non-subject core* argument is post-verbal

#### nedih

3sg.poss

# **Kelabit Case-Marking**



• In Kelabit, case-marking is found for a subset of the pronominal paradigm:

	NOM	GEN
1sg	uih	kuh
2sg	iko	muh
3sg	ieh	neh
3PL	ideh	deh

The forms are labelled NOM and GEN as they appear cognate with case-marked pronouns in other WAn languages

NOM = subjects
GEN = UV actors

### Kelabit



• **NOM** is used for both subjects and non-subjects in AV:

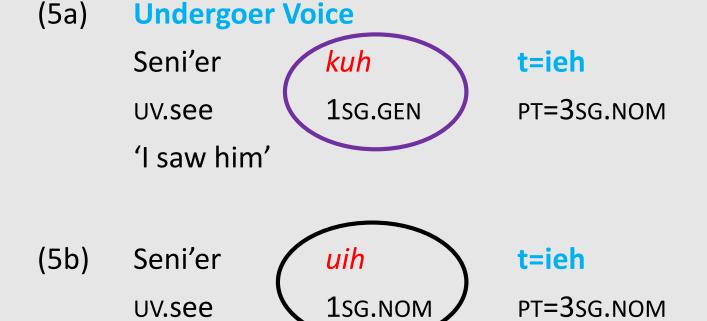




### Kelabit



• NOM and GEN alternate as a means of expressing UV actors



'I saw him'

Differential Actor Marking (DAM)

# Summary



 Speakers have various syntactic choices at their disposal when expressing transitive events (in addition to prosody):

➤ Voice: actor subject or undergoer subject

Word order: initial vs post-verbal vs final

Case: NOM VS GEN (for UV actor)

• Q: to what extent does **information structure** affects these choices?





# Word Order & Information Structure

#### Information Structure



- Information structure can be understood as a formal mechanism for facilitating effective information exchange or update (Dalrymple and Nikolaeva 2011, Erteschik-Shir 2007).
- Among the most important information structure roles are topic and focus:
  - Topic is an entity that the speaker identifies and about which a proposition is made (Krifka 2008): topic-comment
  - Focus is the **informative** part of the proposition and indicates the presence of **alternatives** (Krifka 2008): focus-background

### Word Order & Information Structure



- It is well-known that information structure can affect word-order:
  - In many languages, there is a tendency to place topic before comment (Lambrecht 1994)
  - ➤ In other languages, focus comes before background "the principle of newsworthiness (PoN)" (Mithun 1992)

#### Kelabit Word Order



 Kelabit follows the PoN to a certain extent, since there is a tendency to place focus/contrasted information in initial position in both narrow focus and predicate focus contexts.

- However, there is no one-to-one link between position & information structure role:
  - > non-subject arguments can be focused in the immediately post-verbal position
  - > initial subjects may also be topics
- This can be seen in **spontaneous examples** as well as **information structure tests** (Q&A, corrective focus negation).





# Subject Initial with Narrow Focus

### **Question & Answer Test**



(6	Focused	l Actor
<b>,</b> -		

Q. <mark>lih</mark> nemupu' *John*?

who AV.PFV.hit John

'Who hit John?'

Focused Undergoer

Q. **lih** pinupu' **Andy**?

who UV.PFV.hit Andy

'Who did Andy hit?'

A. [Andy]<sub>focus</sub> nemupu' *John* 

Andy AV.PFV.hit John

'Andy hit John'

A. [John]<sub>focus</sub> pinupu' Andy

John UV.PFV.hit Andy

'Andy hit John'

It is ungrammatical for wh-words to appear clause-finally

# Negation Test (corrective focus)



#### **Context: did Andy hit John yesterday?**

Na'am Andy nemupu' *John* ngimalem...

NEG Andy PFV.AV.hit John yesterday

'Andy didn't hit John yesterday...'

#### (8a) Contrasted Actor

[Paul] <sub>focus</sub>	teh	suk	nemupu'	ieh

Paul pt rel pfv.av.hit 3sg.nom

'It was Paul who hit him (John)'

#### (8b) **Contrasted Undergoer**

[Paul] <sub>focus</sub>	teh	suk	pinupu'	neh
Paul	PT	REL	UV.PFV.hit	3sg.gen

'It was Paul that he (Andy) hit'

An inversion construction places the focused argument in initial position

# Negation Test (corrective focus)



#### **Context: did Andy hit John yesterday?**

Na'am **Andy** nemupu' **John** ngimalem... NEG Andy PFV.AV.hit John yesterday

'Andy didn't hit John yesterday...'

The same strategy is used to correct a time adjunct

Focus < Background

#### (8c) **Contrasted Adjunct**

[edto ma'un]<sub>focus</sub> t=ieh pinupu' neh

day before PT=3sg.nom uv.pfv.hit 3sg.gen

'It was the day before that he hit him'

(8d) #pinupu' neh t=ieh [edto ma'un]<sub>focus</sub>

UV.PFV.hit 3sg.gen PT=3sg.nom day before

For: 'he hit him the day before' (not yesterday)





### Predicate Initial with Predicate Focus

### **Question & Answer Test**



(9) Focused predicate

Q. Enun tu'en neh?

what UV.IRR.do 3sg.GEN

'What is he doing?'

Verb-initial order is a possible response to predicate focus questions

A. [Kuman bua' kaber nedih] $_{focus}$  t=ieh

Av.eat fruit pineapple 3sg.poss pt=3sg.nom

'He's eating his pineapple'

# Negation Test (corrective focus)



#### **Context: did Andy hit John yesterday?**

Na'am Andy nemupu' *John* ngimalem...

NEG Andy PFV.AV.hit John yesterday

'Andy didn't hit John yesterday...'

Verb-initial order is used when the predicate has corrective focus

#### (11a) **Predicate Focus**

[nemepag Paul]<sub>focus</sub> t=ieh

AV.PFV.slap Paul PT=3sG

'He slapped Paul'

For: 'he slapped Paul' For: 'he slapped Paul'

# Spontaneous Examples



tupu] focus t=ideh (13a)[kuman bua' ih fruit only Av.eat PT

'They are just eating fruit'

PT=3PL.NOM

Focus particles

pengeh ineh, am dadan, mirat (13b)edteh anak i'it bah after child small long DEM NEG INTR.appear one **EXCL** 

'Not long afterwards, a small boy appeared'

edteh tupi]focus [ngimet t=ieh

PT=3SG.NOM AV.wear one hat

'He was wearing a hat'

Focus < Background once a discourse topic is established/continuing

# Mid-summary



 There is a tendency for initial position to be associated with focus information and final position to be associated with given information

However...

- Initial-position is not the only option for expressing focus!
- Initial arguments can also be topics

We can see this using the same diagnostic tests





# Post-verbal focus and initial topics

### **Question & Answer Test**



#### (14) Focused Undergoer

AV.PFV.eat

Q. Nekuman *enun* **teh Peter** ngimalem?

'What did Peter eat yesterday?'

'What did Peter eat yesterday?'

what

Non-subject arguments can be questioned *in-situ* 

A. Nekuman  $\begin{bmatrix} bua' & kaber \end{bmatrix}_{focus}$   $\begin{bmatrix} t=ieh \end{bmatrix}_{topic}$  ngimalem AV.PFV.eat fruit pineapple PT=1SG.NOM yesterday

Peter

yesterday

Post-verbal Focus

,

# Negation Test (corrective focus)



#### **Context: did Andy hit John yesterday?**

Na'am Andy nemupu' *John* ngimalem...

NEG Andy PFV.AV.hit John yesterday

'Andy didn't hit John yesterday...'

A post-verbal element can also be corrected/ contrasted

#### (15a) **Corrected Undergoer**

nemupu' [Paul]<sub>focus</sub> [t=ieh]<sub>topic</sub>
AV.PFV.hit Paul PT=3SG.NOM

'He hit Paul'

Focus information can occur in initial position, but also post-verbal position

#### (15b) **Corrected Actor**

pinupu' [Paul]<sub>focus</sub> [t=ieh]<sub>topic</sub>
UV.PFV.hit Paul PT=3SG.NOM

'Paul hit him.'

# **Topic-Initial Order**



(16) Actor Topic

Q. naru' enun Peter?

Av.do what Peter?

'what is Peter doing?'

A predicate focus question can also be answered with topic > comment order

A. neh [Peter]<sub>topic</sub> [kuman *bua' kaber*]<sub>focus</sub>

DEM Peter Av.eat fruit pineapple

'Peter is eating pineapple'

Initial subjects can have narrow focus but also be topics

# Summary



- Hence, **focused subjects** always appear in initial position, but **non-subjects** can also be focused, and initial subjects can also be **topics**.
- Thus, there is no one-to-one link between position and information structure role
- An important question for future research is what the difference is between a focused subject in initial position and a focused object in post-verbal position?
- Let's now look at differential marking





# Differential Marking & Information Structure

# Differential Marking & Information Structure



- Differential marking is also known to correlate with **information structure** (among other factors):
  - Differential object marking (DOM) often overtly marks topical objects
  - Differential actor marking (DAM) often overtly marks focused/contrasted actors

(Dalrymple and Nikolaeva 2011, Fauconnier and Verstraete 2014, Iemmolo 2010, McGregor 2010, Witzlack-Makarevich and Seržant 2018)

# Differential Marking in Kelabit



- In Kelabit, the choice of NOM and GEN appears to follow a similar pattern to DAM:
  - > GEN pronouns mark continuing topics (the default function of actors and pronouns)
  - > NOM pronouns indicate focus/contrast

• This can be seen in **spontaneous examples** from the documentary corpus and is further supported by information structure **diagnostic tests** 

## GEN as continuing topic



(18) Nalap neh pupu'

UV.PFV.fetch 3sg.gen hitting.implement

'She [Dayang Beladan] fetched something to hit with'

Nukab *neh* **bubpu' daan** 

UV.PFV.open 3sg.gen door hut

'Opened the door to the hut'

Nalap neh dteh kayuh

UV.PFV.fetch 3sg.gen one stick

'Picked up a piece of wood'

The GEN actor is a given topic and has high topic continuity

# NOM as focus/contrastive



(19) En *kuh* ni'er **ieh** naru' ih

UV 1sg.gen Av.see 3sg.nom Av.make DEM

'I'd watch her [my great aunt] doing it'

Naru' **n=uih** *petaa ba'o rawir* 

Av.make PT=1sg.nom bead.cap beed rawir

'Then I'd make my own orange bead cap'

Kayu' inih, senuuk *uih* neh.

Like DEM UV.PFV.string 1sg.nom DEM

'Like that one, I strung that.' [pointing]

The NOM actor is contrasted against other possible actors

The undergoer is the topic

# Hanging Topic Test



• If you establish the actor as a **hanging topic**, then GEN is preferred:

(20a)	Paul	kedieh,	kinan	neh	bua'	ebpuk
	Paul	3sg.emph	UV.PFV.eat	3sg.gen	fruit	passion



(20b)	#Paul	kedieh,	kinan	ieh	bua'	ebpuk
	Paul	EMPH.3SG	uv.pfv.eat	3sg.nom	fruit	passion



FOR: 'As for Paul, he ate passion fruit'

'As for Paul, he ate the passion fruit'

### **Question-Answer Test**



• If you make the UV actor the **answer to a wh-word**, NOM is preferred:

Context: who saw her?

(21a) seni'er *uih* t=ieh

UV.PFV.see 1sg.nom pt=3sg.nom

'I saw her'

(21b) \*seni'er kuh t=ieh

UV.PRF.see 1sg.gen PT=3sg.nom

'I saw her'

GEN = X

NOM = ✓

#### **Contrast Test**



• If the UV actor is **contrasted**, NOM is preferred:

'I hit him first, not you'

'I hit him first, not you'

(22a)	Pinupu'	uih	t=ieh	pu'un,	am	dih	iko
	UV.PFV.hit	1sg.nom	PT=3sg .NOM	first	NEG	DEM	3sg.nom



(22b)	*Pinupu'	kuh	t=ieh	pu'un, an	n dih	iko
	UV.PFV.hit	1sg.gen	PT=3sg .NOM	first NE	G DEM	3sg.nom



# Summary



- In the context of UV actors, GEN marks topics and NOM marks focus.
- However, there is also no one-to-one link between form and information structure since NOM can also mark subjects. These can be focus (in initial position) but also topics.
- Moreover, the use of NOM to mark focused actors in UV is seemingly linked to contexts where the actor is focused and the undergoer is the primary topic.
- Hence, differential marking may not only depend on information structure characteristics of the argument encoded, but also on **other relevant referents**.





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# Conclusion



 In this paper, I have explored how case-marking and word order are affected by information structure in Kelabit.

• I have shown that **initial position** is often associated with **focus**, and **clause-final** position with given information (or continuing topics).

• Similarly, I have argued that the choice of GEN vs NOM for UV actors is determined by information structure, since GEN pronouns reflect continuing topics, and NOM pronouns focus/contrast.



 However, there is no one-to-one link between function, position or form and information structure role:

- > Both subjects and non-subject actors can be topics
- Both subjects and non-subjects can be focused (in different positions)
- ➤ Initial and post-verbal positions are associated with both topic and focus (only clause-final position is strictly associated with givenness)
- > NOM case can be associated with both topic and focus



- Consequently, information status is neither uniquely determined by voice, nor by word order nor by case-marking, but via a combination of the three.
- The particular encoding typically depends on **global information structure** properties, i.e. the status of both actor and undergoer (Latrouite and Riester 2018).
- Thus, expression of information status in Kelabit involves a complex interaction between syntax, semantics and morphology



• And the voice system is independent of the level of information structure...

 But allows different configurations of word order and morphological encoding that reflect different pragmatic readings.





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# Many Thanks!