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This talk . . .

- is about Austronesian-type voice (and the various debates associated with it)
- reconsiders the syntactic typology of Ā-agreement, in particular:
 - $\circ\,$ an understudied type of verbal morphology known as 'symmetrical voice'
- provides new evidence for the accusative view of Philippine-type languages
- reconsiders the commonly assumed dichotomy of topic- vs. subject-prominence

1 A- vs. Ā-agreement: overview

1.1 Two types of ϕ -agreement

- $\circ\,$ As is well-known, the Agree relation between the $\phi\text{-probe}$ and its goal is commonly indicated by $\phi\text{-feature agreement.}$
 - **Subject agreement.** Agree with the ϕ -probe on T is commonly indicated by ϕ -feature agreement with the goal. This morphology is known as *subject agreement* (Chomsky 2001; Miyagawa 2009):
 - (1) a. Arabic

Al-?awlaadu qadim-**uu/*-a**. the-boys-**3MP** came-**3MP/*3MS**

'The boys came.' (Bahloul & Harbert 1993:15)

b. English

John seem- $s/*\emptyset$ to have drunk too much coffee.

- **Object agreement.** Agree with the ϕ -probe on Voice/v may also trigger overt ϕ -feature agreement. This is known as *object agreement* (Chomsky 2000, 2001, Baker 2008, 2012).
 - Nahuatl (Uto-Aztecan), for example, employs ϕ -feature agreement with both subject and direct object (2):
 - (2) Nahuatl

Ni-k-te:moašo:čitl.1s.s-3s.o-seek flower

'I seek a flower.' (Stiebels 1999:790)

⊗ But how are Ā-agree relations (i.e. Agree with an Ā-probe, such as [uTOP], [uREL], or [uFOC]) realized in narrow syntax?

• Recent work has revealed two distinct strategies: ϕ -feature agreement (§1.1) and what is known as 'symmetrical voice' (§1.2).

1.2 Two types of Ā-agreement morphology

1.2.1 Type I morphology: ϕ -feature agreement

Much recent work has reported that φ-feature agreement is not tied specifically to Agree with [uφ]. Agree with an Ā-probe may also trigger φ-feature agreement (van Urk 2015; Ostrove 2018; D'Alessandro 2020; a.o.). For example:

^{*}This project is sponsored by a Marsden Fast Start Grant (#MFP-VUW2012) from the Royal Society of New Zealand. I am grateful to the following speakers for sharing their language: Atrung Kagi, Sawagu Kagi, Lisin Kalitang, Dakis Pawan, Ikung Chu, Aki Dai, and Hana Dai, as well as Awaludin Rusiandi, Bhakti Prasetya, Purnama Indra Cahyono, Mustafa Nur Fathoni, Anang Santosa, Maria Anunsiata M.I., Marie Angelique, Abdullah Sani, Anita Bachtiar, Nyoman Sutrisna Novsa Dewi, Murhaban, Cut Ida Agustina, Zainun, and Munzir. Thanks also to Edith Aldridge, Robert Blust, TC Chen, Brad McDonnell, William O'Grady, Hero Patrianto, Ileana Paul, Masha Polinsky, Lisa Travis, and Jozina van der Klok, especially Shin Fukuda, as well as the audiences at NELS53 and AFLA30 for useful feedback.

- (3) San Martin Peras Mixtec: ϕ -feature agreement indexing topic
 - a. Rà_i-xá'antsya rà Juan_i chìkí.
 he-cut.PRES he Juan tuna
 'Juan is cutting tunas.'

(subject topic)

- b. Rì_i-xá'antsya rà Juan chìkí.
 it.AML-cut.PRES he Juan tuna
 'Juan is cutting *tunas*.' (Ostrove 2018:vii, viii) (object topic)
- (4) Gujarati: ϕ -feature agreement indexing focus
 - a. Shahrukh bakri nho-to laav-yo.
 Shahrukh.M.SG-NOM goat.F.SG NEG-M.SG bring-PFV.M.SG
 'S. did not bring a goat, but someone else did.' (subject focus)
 - b. Shahrukh
 bakri-ne
 nho-ti
 laav-yo.
 Shahrukh.M.SG-NOM goat.F.SG-ACC NEG-F.SG bring-PFV.M.SG
 'S. did not bring *the goat* but something else.'
 (object focus)
 (Joshi 2022:1)

*Cases of ϕ -feature agreement triggered by *wh*- and REL-phrases also attested (e.g. Henderson 2006; van Urk 2015).

→ In both languages, φ-feature agreement targets an Ā-element, showing a key feature of *discourse configurationality* (É. Kiss 1995; see also Li & Thomspson 1976, Miyagawa 2010, 2017, and D'Alessandro 2020).

(5) Discourse configurational languages

In a topic-prominent language, the topic is, in a way, an alternative to the subject [in a subject-prominent language]. (É. Kiss. 1995:4)

This definition reflects a common assumption in the literature, that languages are either subject-prominent or topic-prominent in agreement morphology (6) (e.g. Li & Thompson 1976; É. Kiss 1995; Miyagawa 2010, 2017; D'Alessandro 2020; a.o.):

(6) Two-way typology assumed in previous work

	Subject-prominent	Topic-prominent
Agree with $[u\phi]$ realized in narrow syntax	\checkmark	X
Agree with [uTOP] realized in narrow syntax	×	\checkmark

- Implicit assumption behind (7) ϕ -feature agreement in a given language is either A-oriented or \bar{A} -oriented. This raises the underexplored question (7):
 - (7) Are there languages where the Agree relations with $[u\phi]$ and $[u\bar{A}]$ are both indexed in narrow syntax?
- \otimes Such a design is not only logically possible but also attested in natural languages although the type of agreement that manifests this design has received scant attention in the literature.
 - The group of languages that I argue manifests this pattern is western Austronesian languages known as the Philippine-type:
 - Consider the example below from Seediq (ISO 639-3 *trv*):
 - (8) Seediq (Austronesian)

Maha- ku _k -na _j		pawan] _j [ka	
FUT- 1SG.TOP-	3sg.subj hit- <u>PV</u> [Non	A Pawan] [PIV	vot 1sg]
'Pawan will hit	<i>me.</i> ' (Chang 1997:99)	(1	patient voice)

- \rightarrow The affix (-un) on the verb known in literature as the Patient Voice indicates that the topic of the sentence is the direct object ('me').
- \rightarrow Both the grammatical subject ('Pawan') and the object topic ('me') are cross-referenced by a person/number-indexing morpheme that matches the ϕ -features of the full DP:
 - -ku for the first-person singular topic 'I'
 - na for the third-person singular subject 'Pawan'
- \rightarrow Such morphemes are traditionally labeled as pronominal clitics in the literature, although their precise syntactic status has remained underexplored.
- \otimes I will argue that these morphemes are agreement affixes namely, ϕ -feature agreement with the topic and the subject.
- \rightarrow Seediq demonstrates a typologically rare system where Agree with [u ϕ] and [uTOP] are both spelled out as ϕ -feature agreement.

1.2.2 Type II morphology: 'symmetrical voice' tracking Ā-elements

- There's yet a second type of morphology that indexes Ā-agree relations. Descriptively, it inflects for the grammatical relations of certain Ā-elements (e.g. topic, focus, relativized phrase). In other words, it indexes the A-relation of Ā-elements.
- ▷ It is known as 'symmetrical voice' in the literature (e.g. Himmelmann 2002).
- ▷ Kurmuk and Abaza, for example, both exhibit this type of morphology (Anderson 2015:510; Arkadiev & Caponigro 2020:6,7):
- (9) a. *Kurmuk* (*Nilotic*)

táarák [↓]bóor-**ú** dɛ̀ɛl kà ŋìır. person skin-PST.**SUBJ.T** goat PREP knife

'The man skinned a goat with a knife.'

b. dɛɛl bóor-úț-ì ŋλ țáarák kλ ŋìr.
 goat skin-PST-OBJ.T NOM person PREP knife
 'The man skinned *the goat* with a knife.'

(object topic)

(oblique topic)

(subject topic)

- c. ŋìɪr bóor-úț-⁴í dɛ́ɛl ŋλ țáarák knife skin-PST-OBL.T goat NOM person
 'The man skinned a goat with *the knife*.'
- (10) Abaza (Caucasian)
 - a. [awa?a j-ʕa-ta-χa-k^wa-z] abaza-k^wa [there REL.SUBJ-CSL-LOC-remain-PL-PST.NFIN] Abaza-PL r-aķ^wa-p 3PL.IO-COP-NPST-DCL 'Those who remain there are the Abaza' (Subject RC (S))
 b. [a-ph^wəspa ç̂a lə-z-tə-z] a-č,'k^wən [DEF-girl apple 3SG.F.IO-REL.NSUBJ-give-PST.NFIN] DEF-boy 'the boy who gave an apple to the girl' (Non-subject RC (A))
 c. [a-karbəž,'-k^wa ?a-də-r-baχ-wa-z] [DEF-brick-PL REL.LOC-3PL.ERG-CAUS-dry-IPF-PST.NFIN]
 - [DEF-brick-PL **REL.LOC**-3PL.ERG-CAUS-dry-IPF-PST. a-baġ DEF-shed

'the shed where bricks are made'

(Locative RC)

- Shared traits of symmetrical voice (Type II morphology)
 - $\circ\,$ It's formally distinct from ϕ -feature agreement employed in the same language (if any) and may co-occur with it.
 - The exact types of grammatical relations distinguished by this morphology vary across languages.
 - \circ In many languages, more than one type of \bar{A} -operations (e.g. topicalization, relativization, *wh*-extraction) trigger this morphology.
- $\otimes\,$ I will argue that what is known as 'Philippine-type voice' is also an instance of Type II morphology.
 - For example, the Patient Voice affix (*-un*) in Seediq indicates that the grammatical relation of the topic is the direct object:
 - (11) Seediq (Austronesian)

Maha-ku _k -na _j	bbe- <mark>un</mark> [na	pawan] _j [ka	yaku] _k .
FUT-1SG.TOP-3SG.	SUBJ hit-PV [NOM	A Pawan] [PIVO	DT 1SG]
'Pawan will hit me.'	(Chang 1997:99)	((patient voice)

 \otimes A closer look at Philippine-type voice and its variation would thus enrich our understanding of the syntactic typology of \bar{A} -agreement, in particular that of Type II morphology (symmetrical voice).

1.3 Goal of this talk

The key questions

- 1 What's the nature of symmetrical voice, which functions to index the A-relation of certain Ā-elements?
- 2 Are topic-prominence and subject-prominence a dichotomy? If not, how does symmetrical voice vary and evolve?
- 3 What type of case alignment is associated with the presence of symmetrical voice?

Main claims

- 1 Symmetrical voice is best viewed as the arbitrary spell-out of parallel chains (Chomsky 2005; Kandybowicz 2008, Kandybowicz & Torrence 2016; Aboh & Dyakonova 2009).
- 2 Topic- vs. subject-prominence is not a binary choice; however, the former tends to evolve into the latter over time.
- 3 Symmetrical voice is independent of case alignment. In the case of Philippine-type Austronesian languages, this morphology co-occurs with accusative case alignment (contra previous ergative views).

Roadmap

- §2 Austronesian voice: facts and debates
- §3 Two probes, one goal: AN-type voice as the spell-out of parallel chain
- §4 Austronesian-type voice and its external variation
- §5 Austronesian-type voice and its demise
- §6 Conclusion and implication

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2 Austronesian-type voice: facts and debates

- Many western Austronesian languages display a typologically unusual voice system known as **Austronesian-type voice** or **Philippine-type voice**.
- In these languages, the Ā-extraction constraint of a given clause is subject to the form of voice morphology:

(12) Tagalog relativization¹

- a. Sino ang [_{RC} b<**um**>ili/*-in/*-an/*i- ng keyk]? who PIVOT [_{RC} buy<<u>AV>/*PV/*LV/*CV</u>]ID.CM₂ cake] '*Who* is the one that bought cakes?' (Actor Voice)
- b. Ano ang [_{RC} bi-bilih-in/*<um>/*-an/*i- ni AJ]?
 what PIVOT [_{RC} CONT-buy-PV/*AV/*LV/*CV]PN.CM1 AJ]
 'What is the thing that AJ will buy?' (Patient Voice)

- c. Nasaan ang [_{RC} bi-bilih-an/*<um>/*-in/*i- ni AJ ng where PIVOT [_{RC} CONT-buy-LV/*AV/*PV/*C] PN.CM₁ AJ ID.CM₂ keyk]? cake]
 - *Where* will be the place where AJ bought cakes?' (Locative Voice)
- d. Sino ang [_{RC} i-bi-bili/*<um>/*-in/*-an ni AJ ng keyk]?
 who PIV [_{RC} CV-buy/*AV/*PV/*LV PN.CM1 AJ ID.CM2 cake]
 'Who is the one that AJ will buy cakes *for*?' (Circumstantial Voice)
- In simple transitives like (12):
 - Actor Voice (AV) is obligatory for EA extraction (12a).
 - Patient Voice (PV) is obligatory for IA extraction (12b).
 - Locative Voice (LV) is obligatory for **locative** extraction (12c).
 - Circumstantial Voice (CV) is obligatory for benefactive extraction.
 - Extraction of other types of adjuncts (e.g. instrument, purpose) or DPs that are structurally low (e.g. theme in causatives, ditransitives, or controls) also take this affix (12d).
- ▷ The same set of verbal morphology is also obligatory in finite declaratives:
- (13) Tagalog
 - a. B<um>ili si AJ ng keyk mula kay Lia para buy $\langle AV \rangle$ PN.PIVOT AJ ID.CM₂ cake P₁ PN.CM₂ Lia P₂ kay Joy. PN.CM₂ Joy 'AJ bought cake from Lia for Joy.' (AV) b. Bi-bilih-in ni AJ ang keyk mula kay Li para CONT-buy-**PV**PN.CM₁ AJ PIVOT cake P₁ PN.CM₂ Li P₂ kay Joy. PN.CM₂ Joy 'AJ will buy cake from Li for Joy.' (PV)

¹CM: case marker; CONT: contemplated aspect; ID: indefinite; P: preposition; PN: personal name

- c. Bi-bilih-an ni AJ ng keyk si Li para CONT-buy-LV PN.CM1 AJ ID.CM1 cake PN.PIVOT Li P2 kay Joy.
 PN.CM2 Joy
 'AJ will buy cake from *Li* for Joy.'
- d. I-bi-bili ni AJ ng keyk mula kay Li
 CV-CONT-buy PN.CM1 AJ ID.CM2 cake P1 PN.CM2 Li
 si Joy.
 PN.PIVOT Joy
 'AJ will buy cake from Li for *Joy*.' (CV)
- ▷ Analogous to the mapping seen in relativization (13),
 - ▷ In AV, the EA is marked in a special marker labeled as 'pivot' (13a).
 - \triangleright In **PV**: the **IA** bears the marker (13b).
 - \triangleright In LV: the locative bears the marker (13c).
 - \triangleright In **CV**: the **benefactor** bears the marker (13d).

(14) Philippine-type alignment

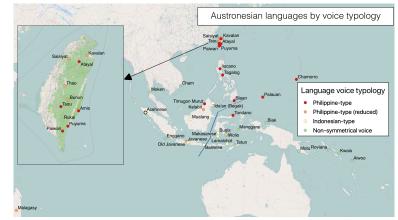
	a. AV	b. PV	c. LV	d. CV
external argument	Pivot	CM_1	CM_1	CM_1
internal argument	CM_2	Pivot	CM_2	CM_2
locative	P1	P1	Pivot	P ₁
benefactor	P_2	P_2	P_2	Pivot

- (15) a. **Pivot**: the morphological marking on the sole phrase in a clause eligible for \bar{A} -extraction
 - b. CM₁: the morphological marking on non-pivot external arguments
 - c. CM₂: the morphological marking on non-pivot internal arguments
 - d. P_1/P_2 : prepositions marking different types of adjuncts
- (16) Key traits of Philippine-type voice
 - a. **Articulated verbal morphology**: Four-way affixal morphology alternates based on the choice of the pivot, including options for taking non-core phrases as pivots.

- b. A syntactically pivotal phrase: In each finite CP, there must be one and only one phrase designated the pivot. Regardless of its grammatical relation or thematic role, the pivot bears a specific morphological marking and/or occupies a specific linear position.
- c. **Status of nonpivot phrases**: Nonpivot phrases are not syntactically demoted and carry a fixed case-marking.
- d. **Fluid extraction restriction**: Ā-extraction (relativization, including pseudo-clefting) is limited to the pivot phrase of a given clause.
- e. **One-to-many mapping between voice and pivot selection**: the mapping between voice choice and pivot designation reflects a mechanism sensitive to both the relative structural height of the pivot compared to other DPs in the clause (see §3 for details).
- *The well-known debate:* How does voice alternation (14a–d) enable pivot-marking to fall on various types of core arguments and adjunct-like phrases?

 \otimes The core questions

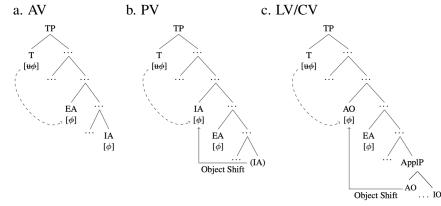
- ▷ What does pivot-marking realize?
- ▷ What's the nature of the four-way morphology (AV/PV/LV/CV)?
- \triangleright What gives rise to the fluid constraint in \overline{A} -extraction (12)?
- (17) Geographical distribution of Philippine-type voice



(LV)

2.1 The A-approach to Philippine-type voice (ergative view)

- 'Pivot' marks absolutive case from T, available to the highest DP (Payne 1982; Mithun 1994; Aldridge 2004, 2012, 2017 et seq.)
 - \circ The 'pivot-only' constraint in \bar{A} -extraction is an absolutive-only restriction.
 - 'Philippine-type alignment' manifests syntactic ergativity.
 - Voice is valency-indicating morphology hosted within VoiceP.
 - AV affix: intransitive voice head (no EPP feature)
 - PV affix: transitive voice head with an EPP feature (driving object shift)
 - LV/CV affix: high applicative head (co-occurring with a null transitive voice head with an EPP feature)
 - (18) Voice alternation as argument structure alternation



- Voice indexes argument structure alternation, enabling different phrases to render the highest DP:
 - $\rightarrow\,$ In AV (18a), the highest DP (often the EA) checks ABS case with T.
 - \rightarrow In PV (18b), the theme undergoes object shift and raises across the EA, rendering the highest DP.
 - \rightarrow In LV and CV (18c), an applied object (e.g. locative, locative, benefactive) undergoes object shift and renders the highest DP.
- Claim: All nonpivot phrases bear <u>nonstructural case</u>: CM₁: inherent ergative case from transitive Voice/v; CM₂: lexical oblique case from V (Aldridge 2004, 2012, 2017; Chang 2011, 2013)

(19)	The ergative view	of Philippine-type alignment
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	a. AV	b. PV	c. LV	d. CV
external argument	Pivot: ABS	ERG	ERG	ERG
internal argument	OBL	Pivot: ABS	OBL	OBL
locative	P ₁	P_1	Pivot: ABS	P_1
instrument/benefactor	P ₂	P ₂	P ₂	Pivot: ABS
	intransitive / antipassive	basic transitive	tran. applicative	ditto

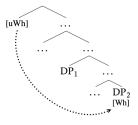
2.2 The Ā-approach to Philippine-type voice (accusative view)

- 'Pivot' is a topic marker that marks the internal topic (obligatory in finite clauses) in an ordinary accusative case system (Richards 2000; Pearson 2001, 2005; Rackowski 2002; Rackowski & Richards 2005; Chen 2017).
 - Assumption: This marker overrides case (20), similar to topic marking in Japanese and Korean.
- (20) The \bar{A} -approach to Philippine-type alignment

	a. AV	b. PV	c. LV	d. CV
external argument	NOM Topic	NOM	NOM	NOM
internal argument	ACC	ACC Topic	ACC	ACC
locative	P_1	P ₁	P _T Topic	P ₁
instrument/benefactor	P_2	P_2	P_2	P ₂ Topic

- $\otimes\;$ Voice alternation indexes topicalization.
 - The licensing of pivot-marking is subject to *Relativized Minimality* (RM) (Rizzi 1990 et seq; Starke 2001; van Urk 2015):
 - (21) A probing feature F must Agree with the closest XP that bears F.
 - ▷ Namely, Agree ignores all XPs that do not carry an instance of the probing feature (Chomsky 2001).
 - Given RM, a topic need not render the highest DP to agree with [uTOP], and it can either be a DP or a PP.

- ▷ This is similar to *wh*-agreement: a *wh*-probe will target the closest XP with a *wh*-feature (which may be an adjunct), skipping all intervening DPs without a *wh*-feature.
- (22) Wh-agreement need not targets the highest DP



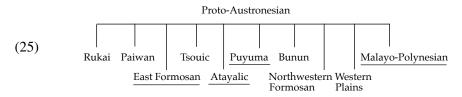
- ▷ **Consensus among this family of analyses**: Philippine-type voice is hosted high in the C domain, indicating the Agree relation with [uTOP].
- ▷ **Does voice track the case of the pivot?**: Previous topic approaches to Philippine-type languages commonly assume that voice morphology inflects for the case status of the topic (Rackowski & Richards 2005; Pearson 2005).
 - (23) \bar{A} -approach to Malagasy voice (Pearson 2005:401)
 - a. AV affix: realization of nominative case feature of the Op
 - b. PV affix: realization of accusative case feature of the Op
 - c. CV affix: realization of applicative morpheme that introduces an applied object
- However, new comparative evidence indicates that Philippine-type voice does not track case.
- A revised analysis to be presented in §3.3.
- ⊗ **Outstanding questions**: what does the four-way morphology realize?; how does this approach account for the 'pivot-only' constraint in relativization?

3 Two probes, one goal: Austronesian-type voice as the spell-out of parallel chain in an accusative system

(24) The competing analyses: the A- vs. \overline{A} -view of Philippine-type voice

	a. A-approach to PPT voice	b. Ā-approach to voice
Case alignment	ergative-absolutive	nominative-accusative
Locus of voice	within VoiceP	C domain
Nature of voice	Voice / applicative head	Agreement morphology
Pivot-marking	absolutive case from T	topic-marking
CM ₁	inherent ergative case from tran. Voice	nominative case from T
CM ₂	lexical oblique case from V	accusative case from Voice
'Pivot-only' restriction	absolutive-only	topic-only

• New data from four languages: Puyuma (*iso* 639-3 *pyu*), Amis (*iso* 639-3 *ami*), Seediq (*iso* 639-3 *trv*), Tagalog; each belongs to a distinct Austronesian higher-order branch.



- \triangleright An examination of the distribution of CM₁, CM₂, and pivot-marking in understudied constructions lends novel support to the accusative view.
- **3.1** New evidence for the Ā (accusative) approach to Philippinetype voice (and against the ergative view)
- **3.1.1** Evidence for CM₂ as accusative (and against the oblique case view)
- Philippine-type Actor Voice clauses contains a CM₂-marked theme.
 - (26) Amis

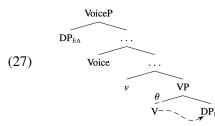
Mi-lawup kaku **ci-Sawmah-an** inacila. AV-chase 1SG.PIVOT **PN-Sawmah-CM**₂ yesterday

'I chased Sawmah yesterday.'

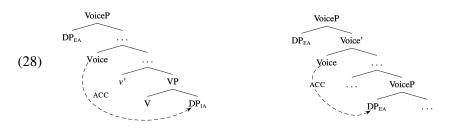
(Actor Voice)

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- ▷ **Ergative approach:** this is an antipassive with a non-structurally caselicensed antipassive object (\Rightarrow CM₂ = lexical oblique case from V).
- \triangleright Accusative approach: this is a true transitive with an accusative object (\Rightarrow CM₂ = accusative case from Voice).
- \otimes Accusative and oblique case can be distinguished in three environments.
 - \triangleright Oblique case is licensed in Head-Comp relation along with θ -assignment



Accusative case may be licensed either via Head-Comp relation or via Head-Spec relation across the VoiceP boundary, i.e. ECM-licensing:



- ▷ Environment 1: CM₂ occurs on ECM subjects in productive causatives, demonstrating a case of Head-Spec licensing across VoiceP boundary:
 - (29) Amis

Ø-pa-pi-lawup kaku **ci-Sawmah-an** ci-Panay-an. **AV**-CAUS-PI-chase 1SG.PIVOT **PN-Sawmah-**CM₂ PN-Panay-CM₂

'I made *Sawmah* chase Panay.'

(AV-marked causative)

 \rightarrow The construction is a biclausal causative, containing two active, independent VoicePs.

- \rightarrow The $CM_2\text{-marked}$ causee c-commands the theme and behaves like an agentive EA.
- \rightarrow The causee shows the hallmarks of an ECM subject, located in a structural position (Spec of embedded VoiceP), where only structural accusative (and not lexical oblique case) is available.
- $\Rightarrow CM_2$ shows the hallmark of structural accusative
- ▷ **Environment 2:** CM₂ also appears on derived objects in raising-to-object constructions, where lexical oblique case should be unavailable.
 - (30) Amis
 - a. Ma-fana' kaku [∅ mi-sakilif ci-Sawmah AV-know 1SG.PIVOT [C AV-lie SG.PIVOT-Sawmah ci-Kulas-an].
 PN-Kulas-CM₂]
 'I know that Sawmah lied to Kulas.'
 - b. Ma-fana' kaku ci-Sawmah-ani [Ø mi-sakilif (e.c.)i
 AV-know 1SG.PIVOT PN-Sawmah-CM₂ [C AV-lie (e.c.)i
 ci-Kulas-an].
 PN-Kulas-CM₂]
 'I know that Sawmah lied to Kulas.' (CM₂ on derived objects)
 - $\rightarrow\,$ Across Philippine-type Austronesian languages, 'raising' in RTO like the above is optional.
 - $\rightarrow\,$ The dislocated phrase (XP) in this construction shows no case connectivity.
 - \rightarrow Matrix-dependent case marking: the XP must carry CM₂-marking when the matrix verb is in AV.
 - \rightarrow Infelicitous to assume the derived object in RTO (either base-generated or derived via \bar{A} -movement) to be θ -licensed by the matrix verb.
 - \Rightarrow CM₂ shows one other hallmark of structural accusative case

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▷ Environment 3: CM₂ is obligatorily absent in restructuring infinitives

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(31) Amis
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Tanam-en aku $[_{RI}$ mi-tangtang { k-una / *t-una}try-PV1SG.CM1 [$_{RI}$ AV-cook{ PIVOT-that / *CM2-that }titi].pork]

'I will try to cook that pork.'

- \rightarrow Within a restructuring infinitive (RI), the verb must bear AV-marking.
- \rightarrow Despite the local verb in AV-marking, the embedded theme must carry pivot-marking where the matrix clause is in PV (31).
 - \Rightarrow The local AV-marked verb is incapable of CM₂-licensing.
 - \Rightarrow CM₂ must not be lexical oblique case, which is available in the RI
 - \Rightarrow Its absence follows from the accusative case analysis.
 - ▷ Defective Voice incapable of accusative-licensing (Wurmbrand 2001 et seq.).
 - \triangleright Same distribution of CM₂ in 19 other Philippine-type languages.

* * * * * * *

- \otimes **Conclusion:** CM₂ marks accusative (and not oblique) case; AV clauses are true transitives.
 - \rightarrow The baseline assumption of the ergative view that the AV and the PV are distinguished by transitivity cannot be maintained.

3.1.2 Evidence for CM_1 as nominative (and against the ergative view)

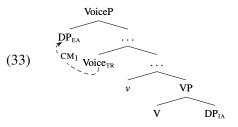
- Philippine-type Patient Voice clauses contains a CM₁-marked EA:
 - (32) Tagalog

K<in>urot **ni AJ** si Lily. pinch<PV.PRF> **PN.CM**₁ **AJ** PN.PIVOT Lily

'AJ pinched Lily'.

(Patient Voice)

 \triangleright **Ergative approach:** the construction is an ergative-aligned transitive; the EA is licensed with inherent ergative case from transitive Voice (CM₁ as inherent ergative case):



- \triangleright Accusative approach: this is a transitive clause with a nominative EA (CM₁ as nominative).
- $\otimes\ CM_2$ shows two hallmarks of nominative case.
 - \triangleright Trait 1: CM₁ is not restricted to EA positions
 - $\circ~$ Unaccusative themes are accessible to $CM_1,$ as are EAs in unergatives/transitives:
 - (34) Tagalog
 - a. Ni-lakar-an ni Ivan ang daan. PRF-walk-LV PN.CM1 Ivan PIVOT road
 'Ivan walked on the road.' (CM1 on unergative agent)
 b. H<in>ulug-an ni Ivan ang swimming pool.
 - fall<PRF>LV PN.CM₁ Ivan PIVOT swimming pool 'Ivan fell into the swimming pool.' (CM₁ on unacc. theme)
 - (35) Seediq
 - a. P-puyas-an na laqi ka sapah=mu. IRR-sing-LV CM1 child PIVOT house-1SG.POSS
 'The children will sing in my house.' (CM1 on unerg. agent)
 b. H-huqil-an na riso nii ka Paran.
 - $[RR-die-LV] PN.CM_1 young.man this PIVOT Paran$ 'This young man will die in Paran.' (CM₁ on unacc. theme)

- \triangleright Trait 2: CM₁ is unique per CP and restricted to the highest DP
 - CM_1 is unique per CP and restricted to the highest DP (36); unlike ergative case in various languages, which may appear on multiple agentive arguments within the same clause (37):
- (36) Ergative case on multiple agents within the same clause
 - a. Trumai (Isolate)

Alaweru-k hai-ts axos-Ø disi-ka. Alaweru-ERG lsg-ERG child-ABS hit-CAUS

'Alaweru made me hit the child.' (Guirardello 1999:302)

b. Macushi (Cariban)

Imakui'pî kupî jesus-ya emapu'tî yonpa-'pî makiu-ya teuren. bad do Jesus-ERG CAUS try-PST Satan-ERG frust

'S unsuccessfully tried to make *J* do bad.' (Abbott 1991:40)

- (37) CM_1 as unique per clause and restricted to the highest DP
 - a. Amis

Sa-pa-pi-nengneng aku tu/*nu ising k-una pusi. CV-CAUS-PI-see 1SG.CM $_1$ ACC/ $\frac{$ *CM $_1$ doctor PIVOT-that cat

'I will ask the doctor to look at the cat.'

b. Seediq

S-p-tinun=mu \emptyset /*narobokalukus.CV-CAUS-weave=1SG.CM1ACC/*CM1RoboPIVOT clothes

'I asked *Robo* to sew the clothes.'

c. Tagalog

I-p<in>a-nakaw=ko kay/*ni AJ ang kotse. CV-CAU<PRF>-steal=1SG.CM₁ PN.ACC/*PN.CM₁ AJ PIV car

'I asked AJ to steal the car.'

- \Rightarrow This locality-sensitive distribution argues against the inherent ergative case view of CM₁, but follows from a nominative analysis.
 - $\circ~$ Same distribution found across Philippine-type langauges (Chen 2017).

3.1.3 'Pivot' as a marker independent of case

- \triangleright The observation so far: CM₁ and CM₂ marks nominative and accusative case, respectively.
 - (38) Philippine-type alignment

	a. AV	b. PV	c. LV	d. CV
external argument	Pivot	NOM	NOM	NOM
internal argument	ACC	Pivot	ACC	ACC
locative	P_1	P1	Pivot	P_1
benefactor	P_2	P_2	P_2	Pivot

- \triangleright Given that CM₁ marks the nominative, 'pivot' should not realize the same case (i.e. structural case from T or a certain head).
 - ▷ This calls into question the traditional view that 'pivot' is a subject marker, realizing ABS/NOM case assigned to a derived A-position.
- \otimes Productive causatives provide an ideal testing ground for examining the absolutive case view of pivot-marking.
- (39) Productive causatives: mapping between voice and case

	a. AV	b. PV	c. CV
Causer	Pivot	NOM	NOM
Causee	ACC	Pivot	ACC
Theme	ACC	ACC	Pivot

- ▷ The constructions are morphologically identical except voice-marking.
- ▷ If 'pivot' marks the absolutive, there should be argument structure alternation between PV- and CV-marked causatives, so that 'pivot' marking skips the causee and mark the theme (alleged applied object).
- $\otimes\;$ Binding facts reveal that the alleged argument structure alternation is absent.
- The causee asymmetrically binds the theme regardless of voice (40)–(41):

- \Rightarrow Theme pivot bound by an agentive, accusative-marked causee (41)
- \Rightarrow The licensing of pivot-marking does not respect locality.
- (40) Tagalog
 - a. I-p<in>a-li-linis=ko kay juan ang CV-CAUS<PRF>RED-clean=1SG.NOM PN.ACC Juan CN.PIVOT kanya-ng sarili. 3SG-POSS REFL

'I asked Juan_i to clean *himself*_i.'

b. P<in>a-pa-ligo=ko si AJ ng CAUS<PV.PRF>-RED-bathe=1SG.NOM PN.PIVOT AJ ID.ACC sarili niya. REFL 3SG

'I am making AJ bathe himself.'

- (41) Puyuma
 - a. Ku=pa-saletra'-anay kan sawagu tayta'aw.
 1SG.NOM=CAUS-slap-CV SG.ACC Sawagu 3SG.REFL.PIVOT
 'I asked Sawagu_i to slap *himself_i*.'
 - b. Puyuma

Ku=pa-saletra'-**aw** i sawagu **kanta'aw**. 1SG.NOM=CAUS-slap-**PV** SG.PIVOT Sawagu **3**SG.REFL.ACC

'I asked Sawagu to slap himself.'

- \rightarrow The invariable binding pattern unaffected by voice alternation indicates that pivot is a marker independent of case.
 - \rightarrow 'Pivot' does not mark absolutive, and is likely to be a marker for a certain information structure status (e.g. topic).
- **3.2** Evidence for Philippine-type voice as topic-indicating agreement morphology hosted in the C domain
- 3.2.1 Voice behaves like agreement morphology
- ▷ Voice morphology obligatorily appears on the highest verbal head per CP.

- ▷ All the rest of the verbal heads carry default (DEF) voice marking.
- (42) Puyuma
 - a. Ku=beray-ay na walak kana bu'ir. 1S.NOM=give-LV DEF.PIVOT child DEF.ACC taro 'I *gave* the child the taro.'
 - b. Ku=talam-ay Ø-beray na walak kana bu'ir. 1S.NOM=try-LV DEF-give DEF.PIVOT child DEF.ACC taro 'I *tried* to give the child the taro.'
 - c. Ku=trakatrakaw-ay talam Ø-beray na walak 1S.NOM=secretly-LV DEF-try DEF-give DEF.PIVOT child kana bu'ir. DEF.ACC taro 'I secretly tried to give the child the taro.'
- ▶ What does this constraint tell us?
- Austronesian-type voice is not valency-indicating affixes hosted within individual VoiceP.

3.2.2 The locus of voice is high

- ▷ Voice morphology is hosted *higher* than Aspect
- $\circ\;$ Voice affixes insert into a spect morphology rather than the verbal stem:
- (43) a. *Puyuma*

	D a-deru	i	Atrung dra	patraka.	
	<av>PROG-coo</av>	k pn.pivc	OT Atrung ID.ACC	c meat	
	'Atrung is cooki	ng meat.'			(AV)
э.	Paiwan (Chang	2006)			
	S iu-siup	ti	Zepul nu	S iaw.	

<a>V>HAB-suck PN.PIVOT Zepul IRR.TEMP <aV>soup

'Zepul sucks (it) when she eats soup.' (AV)

- Assuming the Mirror Principle (Baker 1985; Harley 2013) holds, this indicates Austronesian-type voice is hosted in a projection *higher* than Aspect.
 - ▷ Since Philippine-type languages are tenseless languages, this insertion fact suggests that voice is hosted high in the left periphery.

Voice morphology inflects for mood

- (44) Puyuma
 - a. Ku=beray-ay i Senten dra paysu. 1S.NOM=give-LV.IND PN.PIVOT Senten ID.ACC money 'I gave Senten money.' (LV indicative)
 b. Beray-i i Senten dra paysu! give=LV.IMP PN.PIVOT ID.ACC money
 - '(You) give *Senten* money!' (LV imperative)
 - ▷ Mood is standardly assumed to be hosted in the C domain (e.g. Rivero & Terzi 1995; Han 2001; Noonan 2007), suggesting voice is hosted high.

3.2.3 Philippine-type voice as topic-indicating morphology

• Old insight in the literature: Pivots behave like *topics* (see, e.g., Shibatani (1998), Richards (2000), Pearson (2001, 2005), Rackowski (2002), Erlewine (2014), Chen (2017), Paul & Massam (2020); a.o.).

 $\otimes\,$ Evidence from discourse: in question-answer sequences with a clear discourse topic, the topic must be placed as pivot in the answer.

(45) Puyuma

- a. Makakuta i Pilay uninan?
 AV.what.happen PN.PIVOT Pilay today
 'What did Pilay do today?' (⇒ Discourse topic: Pilay)
- b. Deru (pro) dra abay.
 <AV>cook (3SG.PIVOT) ID.ACC rice.ball
 'She cooked rice balls'. (✓ topic: pivot-marked)

	c.	*Tu=deru-aw na abay. 3.NOM=cook-PV DEF.PIVOT rice.ball (intended: 'She cooked <i>rice balls</i>).' (7 topic: not pivot-marked)
(46)	Tag	galog: four ways to answer (46a)
	a.	Na saan ang kutsara ni Lia?
		NA where PIVOT spoon PN.POSS Lia
		'Where is <i>Lia's spoon</i> ?' $(\Rightarrow$ Discourse topic: Lia's spoon)
	b.	Gamit ni Lia (ang kutsara). use.PV PN.NOM Lia (PIVOT spoon)
		'Lia is using (<i>it/the spoon</i>). $(\Rightarrow$ topic: theme pivot)
	c.	I-p <in>ang-ka-kain ni AJ (ang kutsara). CV-PANG<prf>-RED-eat PN.NOM AJ (PIVOT spoon)</prf></in>
		'AJ is eating with (<i>it/the spoon</i>)' (\Rightarrow topic: instrument pivot)
	d.	Na-kita=ko=[ngk <in>uhaniIvan (angPRF.PV-see=1SG.NOM=[LK steal<pv.prf> PN.NOM Ivan (PIVOTkutsara)].spoon)]</pv.prf></in>
		'I saw that Ivan stole (<i>it/the spoon</i>). (\Rightarrow topic: embedded pivot)
	e.	Na kay Peter (ang kutsara). NA with Peter (PIVOT spoon)
		<i>'The spoon</i> is with Peter.' $(\Rightarrow \text{topic: existential pivot})$
	;	* * * * * *

3.3 Proposal: symmetrical voice as the spell-out of parallel chain

- (47) Main claim: 'Philippine-type alignment' is an illusion
 - a. It is the outcome of prominent topic-marking overriding case
 - b. Philippine-type voice is Type II morphology that indexes the A-relation of topics and REL-phrases.

▷ The design of Philippine-type languages

- (a) $[\mathbf{u}\varphi]$ on **T**, probing the highest DP (i.e. subject).
- (b) $[\mathbf{u}\varphi]$ on matrix Voice, probing the closest DP (i.e. DO).
- (c) A specific type of P that selects only locative phrases.
- (d) $[\mathbf{u}\overline{\mathbf{A}}]$ on C: a flat $\overline{\mathbf{A}}$ -probe that can be satisfied by either [TOP] or [REL], sat on a head distinct from T, labelled as C for simplicity.
- (e) **Parallel chains are spelled out**: where any of the two probes form a parallel chain, that chain is spelled out as verbal morphology.

Proposal: Where a phrase is probed simultaneously by [uĀ] and by (a),
(b), or (c), the parallel chain is spelled out as a voice affix.

(48) Parallel chain formation

Two chains α and β are related by parallel chain formation iff:

i. Tail (α) = Tail (β), and

ii. Head (α) \neq Head (β) (Kandybowicz 2008:115)

- Namely, when a topic/REL-phrase agrees also with [uφ] (either on T or Voice), the parallel chain is spelled out as voice morphology.
 - ▷ Each combination below is spelled out as a specific verbal affix:

AV	spell-out of the parallel chain formed by (a) and (d)
PV	spell-out of the parallel chain formed by (b) and (d)
LV	spell-out of the parallel chain formed by (c) and (d)
CV	spell-out of the Agree relation with (d)

 \hookrightarrow Voice indexes the parallel chains formed by (abstract) **topic agreement** and (a) **subject agreement**, (b) **object agreement**, (c) **locative agreement**, or (d) **nothing else**, respectively.

\otimes The big picture

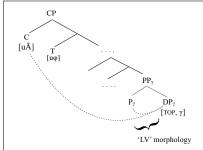
- "AV" occurs when the pivot is the highest DP per CP
- "PV" occurs when the pivot is the 2nd highest DP
- "LV" occurs when the pivot is a locative phrase
- "CV" occurs when the pivot is something else (e.g. low DPs, adjuncts)
- (49) AV: When the topic is also the subject

Ing on this analysis, I argued in Section 5.5 that Philippir iterized as *topic-prominent languages* (Li & Thompson 1 *ages* (Kiss 1995; Miyagawa 2010, 2017), whose topic-pro nent topic-marking and (ii) articulated verbal morpholog pic in a clause.

luded in Chapter 5 that Philippine-type languages are be and the ϕ -feature on T, with topic-agreement spelled-out ulippine-type voice system under this analysis is illustrat

(50) *PV*: When the topic is also the *DO* (2nd highest *DP* per *CP*)

- $\begin{array}{c} CP\\ c\\ [u\bar{A}] & T\\ Uoice\\ [u\phi] & DP_1\\ Voice\\ [u\phi] & DP_2\\ [TOP,\phi] -\\ the \phi-feature on T, with topic referement spelled-orpine-type voice system under this monopolysis illustr$
- (51) *LV: When the topic is also the locative*



(52) A VOICE HIERARCHY

- a. AV > PV > CV
- b. LV is thematic-role oriented (temporal/locative-specific)

(53) Mapping between voice and pivot selection

	AV	PV	LV	CV
Unergatives	external argument	*	locative phrase	non-locative adjuncts
Unaccusatives	internal argument	*	locative phrase	non-locative adjuncts
Transitives	external argument	internal argument	locative phrase	non-locative adjuncts
Productive causatives	causer	causee	locative phrase	theme
Ditransitives	external argument	recipient	goal	theme
Control constructions	controler	controllee	n/a	theme
SVC	external argument	internal argument	locative phrase	non-locative adjunct
Generalization	pivot as subject	pivot as DO	pivot as locative	pivot as anything else

\otimes Key generalizations

- ▷ Voice does not inflect for case (contra Rackowski & Richards 2005).
 - \rightarrow Accusative-marked themes may trigger either PV or CV morphology, depending on its relative structural height.
 - \rightarrow There's counter-evidence for triggers of LV and CV as always involving applicativization (contra Rackowski & Richards 2005).
- ▷ Voice-marking does *not* change the argument structure of a clause.
- ▷ Instead, it indicates the *relative structural height* of the pivot/topic with other phrases in the same clause.

3.3.1 Actor Voice

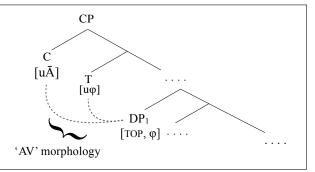
- \otimes "AV" morphology patterns with abstract subject agreement in distribution
- \otimes Possible triggers of AV are the highest DP per clause, including:
 - EAs in unergatives, transitives, ditransitives, causatives, and controls
 - IAs in unaccusatives and detransitives

(54) Puyuma

a. M-uarak na walak i arasip. AV-dance DEF.PIVOT child LOC Arasip	
'Atrung danced in Arasip.'	(AV unergative)
b. M-ekan na bangsaran dra patraka. AV-eat DEF.PIVOT young.man ID.ACC meat	
'The young man ate some meat.'	(AV transitive)
c. M-u-ekan na patraka. AV-DETR-eat DEF.PIVOT meat	
'The meat was eaten up.'	(AV detransitive)
d. M <in>atray na bangsaran.</in>	
'That young man died.'	(AV unaccusative)

 \otimes **Proposal:** "AV" affix is the spell-out of the parallel chain formed by the Agree relation with $[\mathbf{u}\bar{A}]$ and that with $[\mathbf{u}\varphi]$ on T

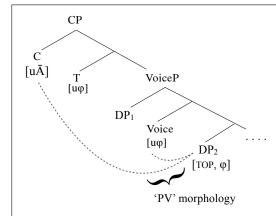
(55) AV: When the subject is also the topic



- ▷ Consistent with the facts above . . .
 - ▷ Intransitives of any type can be marked in AV.
 - ▷ Embedded EAs (e.g. causees, controllees) cannot trigger AV agreement (as they are not the highest DP per CP) (see §3.1.3).

3.3.2 Patient Voice

- \otimes "PV" morphology patterns with abstract object agreement in distribution
- \otimes Possible triggers of PV are the 2nd highest DP per clause, including:
 - **IAs** in simple transitives (56a)
 - Causees (56b), controllee, recipients in DOCs (56c)
 - But not: themes in causatives/DOCs/controls (lower DPs)
- (56) Amis
 - a. Tangtang-en ni Lisin k-u titi. cook-PV PN.NOM Lisin PIVOT-that pork 'Lisin will cook *that pork.*' (PV transitive)
 - b. Pa-pi-takaw-en aku k-una wawa t-una paysu. CAUS-PI-steal-PV 1SG.NOM PIVOT-that child ACC-that money 'I will ask *that child* to steal that money.' (PV causative)
 - c. Pafeli-en aku k-una wawa t-una paysu. give-PV 1SG.NOM PIVOT-that child ACC-that money
 'I gave *the child* that money.' (PV ditransitive)
- \otimes **Proposal:** "PV" affix is the spell-out of the parallel chain formed by the Agree relation with $[\mathbf{u}\bar{A}]$ and that with $[\mathbf{u}\varphi]$ on matrix Voice
- (57) PV: When the DO is also the topic



▷ Key evidence

- Intransitives cannot be marked in PV (since they have no *objects*).
- (Abstract) object agreement is also assumed to be **unique per clause** and target only the **2nd highest DP** i.e. highest DP below matrix Voice and not any other co-occurring objects (Baker 2012; Deal 2019), e.g.:
 - (58) Amharic object agreement
 - a. Ditransitive

Ləmma l-Almaz məs'əhaf-u-n sət't'-at. Lemma DAT-Almaz book-DEF-ACC give-(3MS)-<mark>3FO</mark> 'Lemma gave the book to *Almaz*.' (Baker 2012:258)

b. Productive causative

Aster was-a-n as-metaitf-ññ. Aster ball-DEF.ACC CAUS-hit-3FEM.S-1SG.O 'Aster made *me* kick the ball.' (Duncan & Aberra 2009)

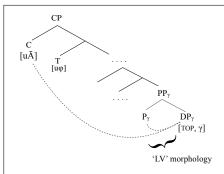
 \rightarrow In DOC, object agreement probes the **recipient** and not the theme.

 $\rightarrow\,$ In causatives, object agreement probes the causee and not the theme.

3.3.3 Locative Voice

- $\otimes\,$ "LV" morphology is linked specifically to temporal/locative pivots.
- $\otimes\,$ Possible triggers of LV are restricted to locative phrases, including:
 - Locative adjuncts in any constructions (59a–b)
 - Sources/goals in prepositional datives (59d)
- (59) Paiwan (Ferrell 1969:202; Chang 2006:195, 74)
 - a. Qalup-an nua caucau tua vavuy a gadu. hunt-LV NOM man ACC pig PIVOT mountain
 'The man hunts while pigs in *the mountains*' (LV transitive)

- b. P<in>a-pana'-an a icu a i maza ni palang CAU<PRF>-shoot-LV PIVOT this LK LOC here PN.NOM Palang tay kui ta zua venan. PN.ACC Kui ACC that deer
 'Palang made Kui shoot that deer *here*.' (LV causative)
- c. '<in>aLap-an ti zepul ta za paysu ni lavakaw. <PRF>take-LV PN.PIVOT Zepul ACC that money NOM Lavakaw 'Lavakaw took money from Zepul.' (LV ditransitive)
- \otimes **Proposal:** "LV" affix is the spell-out of the parallel chain formed by the Agree relation with $[u\bar{A}]$ and that with P_{LOC} (60).
 - **Supporting evidence**: Locative phrases in various Philippine-type languages are marked with a specific preposition *i* that does not mark other types of adjuncts.
- (60) LV: When the locative is also the topic



3.3.4 Circumstantial Voice

- \otimes "CV" morphology does not pattern with any type of A-agreement in distribution.
- \otimes Possible triggers of CV are low DP or non-locative adjuncts, including:
 - DPs that are structurally low (61a–c)
 - Non-locative adjuncts (61d–f)

- \Rightarrow "CV" functions like a <u>last resort voice</u> that shows one-to-many relation with various types of adjunct.
- (61) Paiwan
 - a. Si-qihul=si' hiya' 'i' Ø-pa-patas ku' ruas. CV-force=2SG.NOM 3SG.ACC LK AV-CAUS-write PIVOT book 'You forced him to read *the book*.' (CV controls)
 - b. Ku=s<in>i-pa-'alup tay palang a icu a
 1SG.NOM=CV<PRF>-CAUS-hunt ACC Palang PIVOT this LK
 vavuy.
 boar

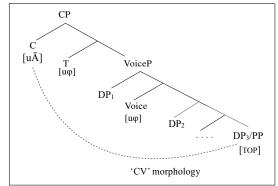
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- 'I made Palang hunt *this wild pig.*' (CV causatives)
- c. 'u-s<in>i-vaik a qaljup ta vavuy ti Kapi. 1S.NOM-CV-PRF-GO LK <AV> ACC wild.pig PIVOT Kapi 'I went hunting wild pigs with *Kapi*.' (CV SVCs)
- d. 'u-s<in>i-patagilj=anga=sun a sapay ta 1SG.NOM-CV-PRF-begin=COS=2S.PIVOT LK <AV>cultivate ACC kaitang. field

'I have started to cultivate the field for *you*.' (CV transitives)

 \otimes **Proposal:** "CV" as the <u>last resort voice</u>: it's the spell-out of **the Agree re**lation with [uĀ] (when the goal agrees with no other probe).

(62) *CV*: When the topic is none of the above

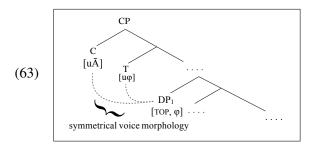


3.4 Interim conclusion

- \otimes Austronesian-type voice is the spell-out of parallel chains that track the Agree relations probing topics and REL-phrases.
 - "AV" best characterized as subject topic construction
 - "PV" best characterized as object topic construction
 - "LV" best characterized as locative topic construction
 - "CV" best characterized as a last resort construction
- ⇒ These langauges show the hallmarks of *discourse-configurationality* in the sense of Lee & Thompson (1980), É. Kiss (1995), and Miyagawa (2009, 2017).
- 4 Austronesian-type voice and its variation beyond Austronesian

▶ How unusual is this design?

- $\circ~$ Similar voice systems in western Nilotic and Caucasian
 - Symmetrical voice is the spell-out of parallel chain
 - $\circ\;$ Symmetrical voice systems show various loci of variation
- \otimes If symmetrical voice is indeed the spell-out of parallel chain, as in (63):



Prediction: How would voice behave . . .

- Variation 1: Which parallel chains being spelled out as voice
- Variation 2: Which type of case alignment co-occurs with voice
- $\circ~$ Variation 3: Which types of $\bar{A}\mbox{-}operation$ triggers voice morphology
- Variation 4: Where the probes triggering the chain are located
 - * * * * * * *
- 4.1 Variations 1–3: Voice distinction, case alignment, and extraction constraints

4.1.1 Number of voice: which chains are spelled out as voice?

Symmetrical voice in Kumuk and Dinka (western Nilotic)

- Three-way verbal morphology indexing the grammatical role of the topic: subject || DO || others
- Nominative-accusative-style case alignment
- A 'last resort'-type third voice ('oblique topic construction')
- Voice morphology present on the highest verbal head with default marking on all lower heads (similar to Austronesian)
- $\circ~$ Same set of voice morphology present in several types of $\bar{A}\mbox{-}operations.$
- (64) a. Kurmuk

b.

c.

.. . .

	táarák [↓] bóor- ú dɛ̃ɛl kà ŋìır. person skin-PST. SUBJ.T goat PREP knife	
	<i>'The man</i> skinned a goat with a knife.	(subject topic)
•	dɛ̃ɛl bóor-úṭ- ì ŋλ ṭáarák kλ ŋìɪr. goat skin-PST- OBJ.T NOM person PREP knife	
	'The man skinned the goat with a knife.'	(object topic)
•	ŋìır bóor-útॣ-⁺í dɛ́ɛl ŋà t̪áarák knife skin-PST- OBL.T goat NOM person	
	'The man skinned a goat with the knife.'	(oblique topic)
	(Ande	rson 2015: 510)

- \triangleright Verbal morphology inflects for the choice of the topic (64)–(65)
- (65) Dinka
 - à. Àyén à-càm cuậin nề păal.
 Ayen 3s-eat.SV food P knife
 'Ayen is eating food with a knife.'

e.' (subject voice/topic)

- b. Cuậin à-céɛm Áyèn nề păal.
 food 3s.eat-OV Ayen.GEN P knife
 'Ayen is eating *the food* with a knife.'
- c. Păal à-céɛmè Áyèn cuîin knife 3s-eat.OBLV Ayen.GEN food
 'Ayen is eating food with *a knife*.'

(oblique voice/ (topic) (van Urk 2015: 61)

(object voice/topic)

- ▷ Genuine voice affix shown on the highest verbal head; all the rest carry default voice (similar to Philippine-type voice)
- (66) Dinka
 - a. Cu[°]₁in à-céem Áyèn nè păal.
 food 3s-eat.OV Ayen.GEN P knife
 'Ayen is eating *the food* with a knife.'
 (Object Voice)
 - b. Cuîin à-dóoc Bôl câam food 3s-do.quickly.OV Bol.GEN eat.NF
 'Bol is eating *the food* quickly.' (Object Voice)
 - c. Cuîin a-c<u>í</u>i Áyèn [_{vP} <u>câam</u> nè pâal]. food 3s-<u>PRF.OV</u> Ayen.GEN <u>eat.NF</u> P knife 'Ayen has eaten *the food* with a knife.' (Object Voice) (van Urk 2015: 61, 84, 96)
- \triangleright Voice morphology present in two other types of \bar{A} -operations:
- (67) Dinka
 - a. Subject wh-question

Yè ŋà **cé** cuîin câam? be who PRF.**SV** food eat.NF *Who* has eaten the food?' (van Urk 2015:96)

- b. Subject relativization
 - tíŋ [CP **cé** Bòl tậiŋ] woman.CS [**PERF.SV** Bol see.NF]

'the woman that has seen Bol' (van Urk 2015:97)

c. Object wh-question

Yè nó **cíi** Bôl câam? be what **PRF.OV** Bol.GEN eat.NF

'What has Bol eaten?' (van Urk 2015:98)

d. Object relativization

tíŋ[CP cíiBôltîŋ]woman.CS[**PERF.OV** Bol.GEN see.NF]'the woman that Bol has seen' (van Urk 2015:97)

- \Rightarrow This voice morphology shares core traits with Philippine-type voice (van Urk 2015; Erlewine et al. 2017) and may well be the spell-out of parallel chain.
- Symmetrical voice in Abaza (Caucasian)
 - $\circ~$ Symmetrical voice co-occurring with $\mbox{ergative case alignment}$
 - At least five-way morphology indexing the grammatical role of *wh*-phrases: subject || non-subject || various types of adjuncts
 - Known as 'wh-agreement' in the literature
 - A similar "last resort" voice: various types of non-absolutive DP sharing the same voice morphology
 - Relativization sharing the same set of voice morphology
- (68) *Abaza*
 - a. [awa?a j-Sa-ta-χa-k^wa-z]
 there REL.SUBJ-CSL-LOC-remain-PL-PST.NFIN
 'those who remained there' (Subject RC (S))

b.	[a-ph ^w əspa j-lə-s-tə-z] DEF-girl REL.SUBJ-3SG.F.IO-1SG a-ça DEF-apple	.ERG-give-PST.NFIN
	'the apple I gave to the girl'	(Subject RC (O))
c.	[a-ph ^w əspa ç̂a lə-z-tə-z] DEF-girl apple 3SG.F.IO-REL.NSU	a-ĉ'k ^w ən
	'the boy who gave an apple to the gir	
d.	[ç̂a z-s-tə-z] apple REL.NSUBJ-1SG.ERG-give-PS7	a-aph ^w əspa F.NFIN DEF-girl
	'the girl whom I gave an apple'	(Nonsubj RC (IO)
e.	d-h ^w a 3SG.H.ABS-say(IMP) [jəz-zə-b-χ ^w ʕa-z]	
	3SG.N.ABS-REL.NSUBJ-BEN-2SG.F.	ERG-buy-PST.NFIN
	'Say whom you bought it for!'	(Nonsubj RC (AO))
f.	[a-karbəž'-k ^w a ?a-də-r-bax-wa-z] DEF-brick-PL REL.LOC-3PL-ERG-C a-baġ	CAUS-dry-IPF-PST.NFIN
	DEF-shed	
	'the shed where bricks are made'	(Locative RC)
g.	[l-an d-an-ʕa-j-χ] 3SG.F.IO-mother 3SG.H.ABS-REL.TH	asqan MP-CSL-go-RE DEF.time
	'at the time when her mother came b	ack' (Temporal RC)
h.	[d-š-š'ṭa-z] 3SG.H.ABS-REL.MNR-lie-PST.NFIN d-š'talyə-n	a-pš-ta 3sg.n.10-be.like-ADV
	3SG.H.ABS-lie.down-RE-PST.FIN	
	'He lay down like he lay before.'	(Manner RC)
	(Ar	kadiev & Caponigro 2020:6,7)

- \rightarrow The same verbal morphology (*j*-) used for both S and O (i.e. subject) relativization.
- \rightarrow Relativization of non-subject DPs (A/IO/AO) share a distinct affix (z-).

- \rightarrow Extraction of different types of adjuncts employ different extraction affixes.
- \Rightarrow This morphology also shares the key traits with Philippine-type voice (Baier 2018) and may also be analyzed as the spell-out of parallel chain.
- \otimes The exact parallel chains that trigger symmetrical voice morphology differ across Dinka, Abaza, and Philippine-type Austronesian languages.
- (69) A mini typology of voice distinctions

	Subjects	Direct objects	Lower DPs	Locatives	Other adjuncts
Austronesian	Voice 1	Voice 2	Voice 4	Voice 3	Voice 4
Dinka/Kurmuk	Voice 1	Voice 2	?		Voice 3
Abaza	Voice 1	Voice 2 (ERG an	nd other DPs)	Voice 3 (many other Voices	

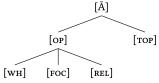
⊗ The exact types of Ā-operation that trigger symmetrical voice morphology differ across Dinka, Abaza, and Philippine-type Austronesian languages (Potsdam 2006, 2009 et seq.; van Urk 2015; Arkadiev & Caponigro 2020).

	Austronesian	topicalization, relativization (including <i>wh</i> -clefts)
(70)	Dinka (Nilotic)	topicalization, relativization, wh-questions
	Abaza (Caucasian)	relativization, wh-extraction

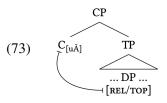
- \rightarrow Abaza voice present in both *wh*-extraction and relativization:
- (71) Abaza (Arkadiev & Caponigro 2020:70,10)
 - a. j-Sa-ka-ŝá-da?
 WH.SUBJ-CISL-LOC-fall(AOR)-QH
 'Who fell?' (Subject wh-question (ABS S))
 b. j-Sá-b-g-ja?
 WH.SUBJ-CISL-2SG.F.ERG-bring(AOR)-QN
 'What did you bring?' (Subject wh-question (ABS O))
 c. w-Sa-z-rə-há-ja?
 2SG.M.ABS-CISL-WH.NSUBJ-CAUS-FEAR(AOR)-QN
 'What frightened you?' (Non-subj wh-question (ERG A))
 d. 3ca z-la-r-fa-wa-ja?
 - soup WH.NSUBJ-ins-3pl.erg-eat-ipf-qn
 'What do they eat soup with?' (Non-subj *wh*-question (AO))

- e. h-an-ba-ta-də-r-č'a-χ-wa-š?
 1PL.ABS-WH.TMP-Q.ADV-REP-3PL.ERG-CAUS-eat.ITR-RE-IPF-FUT
 'When will they feed us again?' (Temporal *wh*-question)
- Existing proposal: Ā-operations in some languages may be driven by a single, flat Ā-probe as proposed previously by for Dinka and for several Bantu languages (Kuno 1973; Miyagawa 2010; van Urk 2015).
 - (72) \bar{A} -feature Geometry

Ā-features ([WH], [REL], [FOC], [TOP]) are hierarchically arranged.ranged. Probes may be relativized to different places on thishierarchy.(Aravind 2018; Baier 2018)



- ▷ That is, a probe may be satisfied by an \overline{A} -feature (represented [u \overline{A}]), or a feature lower down on the hierarchy, like [REL].
- \otimes I argue that the apparent extraction constraint derives from topicalization and relativization as driven by a single, flat, \bar{A} -probe (73).



- \Rightarrow In this view, 'pivot-only' is essentially not an *extraction constraint*, but the same set of agreement morphology shared by topicalization and relativization.
- ▷ See van Urk (2015) and Miyagawa (2009) for the same solution for Dinka's and Kinande's extraction restriction.

Prediction: how would pivots behave . . .

 $\circ~$ Variation 4: Whether pivots behave like both an \bar{A} - and A-element

- Variation 5: Whether the Agree relations involved also trigger ϕ -feature agreement
- \circ Variation 6: Whether pivot \bar{A} -moves (as the outcome of Agree)

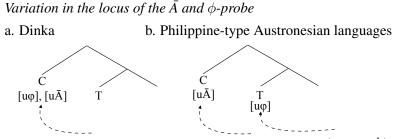
Prediction: how would symmetrical voice evolve . . .

• **Variation 7**: whether the grammaticalization of *topic* > *subject* has taken place

4.2 Variation 4: the locus of $[u\bar{A}]$ and $[u\phi]$

(74)

▷ Symmetrical voice languages vary regarding the locus of the probes that form parallel chains



promotion-to-pivot/subject promotion-to-pivot promotion-to-subject

- \triangleright Dinka has been shown to lack the A/Ā distinction, where the flat Ā-probe and the ϕ -probe are hosted on the same head.
- ▷ Contra Dinka, Philippine-type Austronesian languages demonstrate a clear A/Ā-distinction, where promotion-to-pivot shows Ā- and no A-properties:

		Dinka	Philippine-type
			AN languages
(75)	a. Reconstruction for Principle C (Ā property)	×	\checkmark
	b. New antecedents for anaphors (A-property)	\checkmark	×
	c. No Weak Crossover effects (A-property)	×	\checkmark

see.NF

⊳ <u>a</u>	a. Reconstruction for Principle C	<i>Bol</i> , a picture of himself has shown that we have seen.' (Object Voice) (van Urk 2015:111)
(76)	Dinka: pivots do not reconstruct	
	*Ròt-dè _i à-nhiéɛr Bôl _i . self-SG.3SG 3S-love.OV Bol.GEN	(79) <i>Philippine-type An languages: promotion-to-pivot creates no new binder for anaphors</i>
	(intended: 'Bol loves <i>himeself</i>).' (Object Voice)	a. Amis
(77)	Philippine-type AN languages: pivots reconstruct	*Ma-palu nira tu ci kulas. PV-beat 3SG.NOM REFL CN.PIVOT Kulas
	a. Amis	(intended: <i>Kulas</i> , himself has hit.') (Patient Voice)
	Ma-palu ni Kulas cingra tu. PV-beat PN.NOM Kulas 3SG.PIVOT REFL	b. <i>Puyuma</i>
	'Kulas hit <i>himself</i> .' (Patient Voice)	*Tu=karatr-aw kantaaw i pilay. 3.NOM=bite-PV 3SG.NOM.self PN.PIVOT Pilay
	b. Tagalog	(intended: 'Herself has hit <i>Pilay</i>).' (Patient Voice)
	Hindi p <in>igil ni Lia ang sarili niya (na NEG <pv.prf>control PN.NOM Lia PIVOT self 3SG.POSS (LK</pv.prf></in>	c. Seediq
	k <um>ain). eat<av>)</av></um>	*S <n>pi na heya nanaq ka Watan. dream<prf.pv> NOM 3SG REFL PIVOT Watan</prf.pv></n>
	'Lia cannot stop <i>herself</i> from eating.' (Patient Voice)	(intended: 'Himself dreamt of <i>Watan</i>).' (Patient Voice)
	c. Seediq	d. Tagalog
	S <n>pi na Watan ka heya nanaq. dream<prf.pv> PN.NOM Watan PIVOT 3SG REFL</prf.pv></n>	Sa-sampal-in ng kanyang sarili si juan. CONT-slap-PV ID.NOM 3SG REFL
	'Watan dreamt of <i>himself</i> .' (Patient Voice)	(intended: Himself will slap <i>Juan</i> .') (Patient Voice)
	d. Puyuma	
	Tu=karatr-aw tayta'aw kan Pilay. 3.NOM=bite-PV 3SG.PIVOT.REFL DEF.NOM Pilay	▷ <u>c. Crossover effects</u>
	'Pilay hit <i>herself</i> .' (Patient Voice)	(80) Dinka: promotion-to-pivot shows no Weak Crossover effects
⊳Ł	b. New antecedent for anaphors	Dhùk ébén _i à-cíi thák-dè _i kâac. boy every 3S-PRF.OV goat.CS-SG.3SG bite.NF
(78)	Dinka: promotion to pivot creates a new binder for anaphors	'His _i goat bit <i>every boy_i</i> .' (van Urk 2015:110) (Object Voice)
	Bòl _i à-cíi [DP thùrá è ròt-dè _i] nyôoth [CP kè cùukù Bol 3S-PRF.OV picture P self-SG.3SG show.NF C PRF.1PL tîiŋ].	 Promotion-to-pivot in Philippine-type AN languages shows the hallmark of Ā-operations: Weak Crossover and (occasionally) marginal Weakest

of Ā-operations: Weak Crossover and (occasionally) marginal Weakest Crossover effects are both attested:

(81) a. Puyuma

Ku=pubibi-ay [kantu=dawa] [tu=uma 1SG.NOM=sow-LV [3.POSS.ACC=millet] [3.PIVOT.POSS=field kana maydrangan driya]. LK old.persons every]

'I sowed his/her_{<i>} millet at *every old person's*_{<j/??i>} field.

b. Amis

Sa-pi-tangtang aku [tu titi nangra] [ku siuy a CV-PI-cook 3SG.NOM [ACC pork 3PL.POSS] [PIVOT pot LK cimacima a ina]. every LK mother]

'I cooked her_{i>} pork with every mother's_{j/??i>} pot.' (Patient Voice)

c. Tagalog

M<in>amahal ng kanyang_i ama ang bawat anak_i. love<PV.PRF> NOM his father PIVOT every child

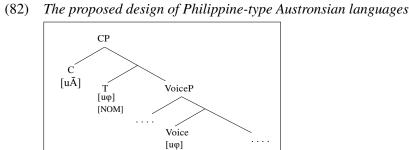
'His_i father loves *every child*_{j/??i}.' (Richards 2000) (Patient Voice)

d. Malagasy

Novangian'-ny rainy ny mpianatra tsirairay omaly PST.CV.visit-DET father-3 DET student each yesterday 'His_i father visited each_{??i} student yesterday.' (Patient Voice) (Pearson 2001:107)

4.3 Variation 5: ϕ -feature agreement following Agree

 \triangleright **Prediction**: Under the proposal in (82), the topic, subject, and/or the highest object (DO) may each trigger ϕ -feature agreement.



Given that . . .

• Morphological agreement is optional following Agree

[ACC]

• Agree with either an A- or \bar{A} -probe may trigger φ -feature agreement

- \rightarrow The prediction is indeed borne out:
- ▷ Co-occurrence of topic/pivot agreement and subject agreement²
- (83) Seediq

Wada=<u>ku=na</u> bbe-un na Pawan ka yaku. PST=<u>ISG.PIVOT=3SG.SUBJ</u>hit-PV NOM Pawan PIVOT ISG

'Pawan hit me.'

(Patient Voice)

(84) Puyuma

Tui=trakaw-ay=yudrapaysukanSenteni.3.SUBJ =steal-LV=2SG.TOPID.ACC money PN.NOMSenten

'Senten stole money from you.'

(LV)

(85) Kapampangan

Seli=nenitangtauingbale.buy.PV=3SG.TOP+3SG.SUBJthat.NOM-LKmanPIVOThouse.

'That man bought the house.'

(Patient Voice) (Kitano 2006:90)

- ▷ Object agreement is also attested in some Philippine-type languages:
 - (86) Bunun (Huang 1997:317,371)
 - a. M-adu'=ik=su'] AV-like=1SG.TOP=2SG.OBJ
 'I like(d) you.' (AV transitives)
 b. Ma-saiv=ik=su'] tasa' ahil. AV-give=1SG.TOP=2SG.OBJ one book
 'I give/gave you a book.' (AV ditransitives)
 c. Na=ni'=ik ma-saiv=su'] haimangsut.
 - FUT=NEG=1SG.TOP AV-give=2SG.OBJ thing 'I will *not* give *you* anything.' (Negated AV ditransitives)
- \rightarrow Analogous to Amharic object agreement, this morphology is unique per clause; targeting recipients and not themes in ditransitives (80b).
- \rightarrow Topic agreement (*ik*) 'climbs' to the nagator; object agreement (*su*') does not.
- ⇒ Presence of these sets of φ -feature agreement reinforces the assumption that abstract topic agreement, subject agreement, and object agreement are presented in these languages.
- *See Chen (to appear) §5.3 for specific evidence for such morphemes being agreement and not arguments (pronominal clitics).
- \otimes Languages displaying φ -feature agreement of these goals can be viewed as both agreement-based and discourse configurational.
 - ▷ Topic-driven φ-feature agreement reported in at least three other families: Romance, Mixtec, and Bantu (Ripano: D'Alessandro 2020; Kinande: Baker 2003:113; San Martin Peras Mixtec : Ostrove 2018:220).

4.4 Variation 6: Move following Agree

- ▷ Symmetrical voice languages also provide good evidence that Move is optional following Agree.
 - \triangleright In Abaza, voice morphology (e.g. *z*-) is present regardless of whether a *wh*-phrase stays in-situ or undergoes overt Ā-movement (O'Herin 1993:35).
 - (87) *Abaza (O'Herin 1993:45, 37)*
 - a. Dizda kitab y-z-1ma-m? who book 3si-<u>NSUBJ.WH</u>-have-NEG 'Who doesn't have a book?' (*Wh*-fronting)
 - b. S-kitab dizda y-na-z-axu? 1s-book who 3si-PV-<u>NSUBJ.WH</u>-take 'Who took my book?' (*Wh*-in-situ)
 - \triangleright The optionality also attested in western Austronesian.
 - ▷ Languages with Austronesian-type voice display variation regarding whether or not the topic/pivot occupies a designated linear position.

▷ Topic-final type

- (88) Malagasy (Pearson 2005:389–390)
 - a. Mamono ny akoho amin'ny antsy ny mpamboly.
 AV.kill DET chicken with-DET knife DET farmer
 'The farmer is killing the chickens with the knife.' (AV)
 - b. Vonoin' ny mpamboly amin'ny antsy ny akoho.
 PV.kill DET farmer with-DET knife DET chicken
 'The chickens, the farmer is killing with the knife.' (PV)
 - c. Amonoan' ny mpamboly ny akoho ny antsy.
 CV.kill DET farmer DET chicken DET knife
 'The knife, the farmer is killing the chickens (with it).' (CV)
- → I assume this word order derives from topicalization followed by predicate fronting (Pearson 2001, 2018; Rackowski & Travis 2000).

▷ Topic in-situ type

- (89) Paiwan (Ferrell 1979:202)
 - a. Q<m>alup a caucau tua vavuy i gadu tua vuluq. <AV>hunt PIVOT man ACC pig LOC mountain OBL spear 'The man hunts wild pigs in the mountains with a spear.' (AV)
 - b. Qalup-en nua caucau a vavuy i gadu tua vuluq. hunt-PV NOM man PIVOT pig LOC mountain OBL spear 'The man hunts while pigs in the mountains with a spear.' (PV)
 - c. Qalup-an nua caucau tua vavuy a gadu tua vuluq. hunt-LV NOM man ACC pig PIVOT mountain OBL spear 'The man hunts while pigs in the mountains with a spear.' (LV)
 - d. Si-qalup nua caucau tua vavuy i gadu a vuluq.
 CV-hunt NOM man ACC pig LOC mountain PIVOT spear
 'The man hunts while pigs in the mountains with a spear.' (CV)

▷ Flexible word order type

There are also languages that display flexible word order among nominals:

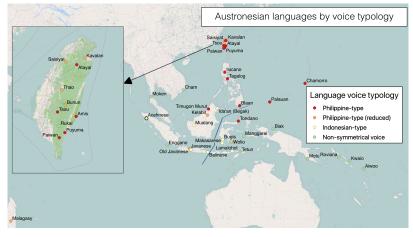
(90) Puyuma (Teng 2008:148)

a.	P <en>anguter</en>	dra dar	re' na	markatag	uin.	
	<av>grab</av>	ID.ACC sou	al DEF.PIVOT	couple		
	'The couple g	rabbed som	e soil.'		(AV)
b.	P <en>anguter</en>	na	markataguin	dra da	are'.	
	<av>grab</av>	DEF.PIVOT	couple	ID.ACC SC	oul	

- 'The couple grabbed some soil.' (AV)
- \triangleright All three types of languages display the same type of voice morphology and \bar{A} -extraction restrictions in relativization.
 - \oplus **Implication**: Move is not a necessary outcome of Agree with [uTOP], analogous to the optionality observed with wh-in-situ.

5 Variation 7: Symmetrical voice and its decay

- Well-known grammaticalization pathway: *topic* ≫ *subject* (Li & Thompson; 1976; Givon 1979; Plank 1979; Mallinson & Blake 1981; Shibatani 1991; Heine & Kuteva 2004)
- Existing claim: Indo-European languages developed from topic-prominent languages to subject-prominent languages (Lehmann 1976)
- $\otimes\,$ Further evidence from western Austronesian: symmetrical voice evolving from a topic-indexing system into a subject-indexing system
- (91) Geographical distribution of Philippine-type and Indonesian-type voice



- \otimes "Indonesian-type voice" is a continuum in flux in transition from a **topic-indexing** to a **subject-indexing** voice system; namely: *topic* \gg *subject*.
- (92) Four diagnostics applied (Patrianto & Chen 2023 a,b)

A pivot phrase	
a. must be definite/specific	topic property
b. can surface as a reflexive theme in NAV	topic property
c. can function as a new binder in NAV	subject property
d. can be a PP adjunct in NAV	topic property

	Variation among Indonesian-type voice systems				
A pivot phrase	Javanese	Balinese	Acehnese Indonesian		
a. must be definite/specific	✓	\checkmark	X	X	
b. can surface as a reflexive theme in NAV	✓	\checkmark	X	X	
c. can function as a new binder in NAV	×	\checkmark	\checkmark	\checkmark	
d. can be a PP adjunct in NAV	✓	X	X X		
		pivots as both	pivots as subject		
	pivots as topic	topic and subject			
	(Ā-elements)	(mixed A- and	(A-element)		
		Ā-properties)			
	b. Ā-approach to PPT voice hybrid approach A-approach to				

(93) Variation among four Indonesian-type languages

- ▷ **Javanese** remains underlyingly Philippine-type, where pivot phrases show typical topic behaviors.
- ▷ Acehnese and Indonesian are the most innovative, where voice alternation is encoded in A-syntax and denote argument structure alternation.
- ▷ **Balinese** may manifest an earlier stage of the transition, where the pivot phrases still show topic properties but also display subject properties.

6 Conclusion and implications

- ⊕ **Summary:** How are Philippine-type Austronesian languages discourse configurational languages?
 - (94) Seediq

Maha=ku=nabbe-unnaPawan kayaku.FUT=1SG.TOP=3SG.SUBJ hit-PVNOMPawan TOP1SG

'Pawan will hit me.'

(Patient Voice)

- \rightarrow Symmetrical voice morphology
- \rightarrow Overt topic marker (*ka*)
- $\rightarrow \varphi$ -agreement with the topic (=*ku*)
- \rightarrow Voice (PV) indexes the grammatical relation of the topic
- \rightarrow Subjects also trigger φ -agreement (=*na*)

Take-home messages . . .

- \otimes Symmetrical voice is a key trait of discourse configurationality, where the A-relation of certain \bar{A} -elements are indexed in narrow syntax.
 - Symmetrical voice systems index parallel chain relations.
 - $\circ~$ Symmetrical voice may co-occur with $\phi\text{-feature}$ agreement.
 - Symmetrical voice is independent of case alignment.
 - Symmetrical voice morphology may evolved into subject-indexing morphology over time (cases attested in western Austronesian)

$\oplus \;$ What do Austronesian languages tell us about Agree and Move?

- How are Ā-agree relations realized in narrow syntax?
 - ▷ Parallel chain relations may be built in as verbal morphology.
- What is the relationship between Agree and Move? Is Move necessary?
 - Move is not a necessary outcome of Agree; the optionality is seen widely in western Austronesian.
- Is $[u\varphi]$ the only type of probe that triggers φ -feature agreement?
 - $\triangleright \varphi$ -feature agreement may be triggered by Agree with either an Aor Ā-probe.
 - ▷ Implication: It's best viewed as a means for indexing abstract Agree relation of any type.
- Is topic- vs. subject-prominent a binary choice?
 - ▷ No both traits may co-occur in discourse configurational langauges.

* * * * * *

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