A'-movement restrictions in Igbo reanalyzed

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1. Overview

(1)

• Igbo (Niger-Congo; Nigeria) clauses with the perfective morpheme (1a) or negation (2a) are incompatible with A'-movement, shown with *focus fronting* (Amaechi, 2020; Jian, 2024).

Perfective (-*lá*) a. Àdá é-Ada erí -é -lá 'jí. Ada evan -ovs -PFV yam 'Ada has eaten yam.' Focus fronting (kà)
b. *Jí_i kà Àdá éyam C_{WH} Ada E/A- eat -OVS -PFV Int.: 'Ada has eaten YAM.'

b. * Ji_i kà Àdá ϵ - !rí -**ghí** ___i.

Int.: 'Ada did not eat YAM.'

yam C_{WH} Ada E/A- eat -NEG

(2) Negation (-ghí)

- a. Àdá é-Ada E/A-eat -NEG yam 'Ada did not eat yam.'
- Extraction is possible from clauses with, e.g., the *-rV* suffix (3a).
- (3) *rV*-sentence
 - a. $\hat{A}d\hat{a}$ (*e)- \hat{r} \hat{r} \hat{r} b. $J\hat{i}_i$ $\hat{k}\hat{a}$ $\hat{A}d\hat{a}$ \hat{r} $-\hat{r}$ $__i$.Ada (*E/A)- eat - \mathbf{r} V yamyam C_{WH} Ada eat - \mathbf{r} V'Ada ate yam.''Ada ate YAM.'

• Key difference between clause types is the presence/absence of the harmonizing vowel E/A.

Main claim

- E/A spells out I when IP does not contain φ -features. E/A occurs in PFV/NEG clauses because their subjects are higher than IP; structure needed for A'-extraction is blocked.
- When subjects are IP-internal, e.g., -*rV*, I is null and A'-extraction is permitted.

IP-external subject; Extraction Banned (5)) IP-internal subject; Extraction OK
СР	СР
DP_{SRI} C'	DP C'
Àdá 🔨	jí
$[\varphi] C_{SBI} IP$	C _{WH} IP
0	kà
I	DP _{SBJ} I'
E/A	Àdá 🔨
	[φ] Ι
	Ø
NEG & PFV clauses	<i>-rV</i> clause

Roadmap:

- ► E/A's identity
- Embedding restrictions tied to E/A
- ► Extraction restrictions with E/A beyond perfective and negation
- Discussion

2. E/A is inflection

- We propose that E/A is the exponent of I (see also Déchaine 1993), surfacing when no element with φ-features occupies the IP-layer.
 - 1. It surfaces in all clauses when the subject has no φ -features.
 - 2. It is in complementary distribution with clitic subjects.

IMPERSONAL SUBJECT

- When the subject is an impersonal, E/A surfaces in all clauses. The subject is a null φ-featureless pronoun (e.g., Nevins 2007; Holmberg and Phimsawat 2017; Fenger 2018).
- (6) a. $\begin{bmatrix} \dot{E} \mathbf{r} \mathbf{i} \cdot \mathbf{r} \mathbf{i} \\ E/A eat \mathbf{r} \mathbf{V} \text{ yam} \end{bmatrix}$ b. $\begin{bmatrix} \dot{E} \mathbf{i} \mathbf{r} \mathbf{i} \cdot \mathbf{e} \mathbf{i} \mathbf{f} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{f} \mathbf{i} \mathbf{g} \mathbf{h} \mathbf{f} \mathbf{r} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{f} \mathbf{i} \mathbf{g} \mathbf{h} \mathbf{f} \mathbf{f} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{f} \mathbf{i} \mathbf{g} \mathbf{h} \mathbf{f} \mathbf{f} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{f} \mathbf{i} \mathbf{g} \mathbf{h} \mathbf{f} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{f} \mathbf{i} \mathbf{g} \mathbf{h} \mathbf{f} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \mathbf{i} \\ E/A eat OVS \mathbf{PFV} \text{ yam} \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ yam.' \end{bmatrix}$ $\begin{bmatrix} \dot{E} \mathbf{s} \mathbf{i} \\ Someone \ ate \ ximple \ ximp$
 - \Rightarrow The head which E/A spells out is present in all clauses.

• Extraction from an rV-clause with E/A is possible:

- (7) $G_{i}!n_{i}'ka (\epsilon si ri _{i}?)$ what $C_{WH} E/A$ -cook -rV 'What did someone cook?'
 - \Rightarrow E/A morphology is not responsible for the ban on extraction.

THE DISTRIBUTION OF CLITIC SUBJECTS

- PFV/NEG non-clitic subjects must co-occur with E/A (1a)-(2a). Clitic subjects in these clauses are in complementary distribution with E/A; they immediately precede the verb (8).
- (8) a. M ¹rí-é-lá ¹jí. b. Í ¹rí-é-lá ¹jí. c. Ó ¹rí-é-lá ¹jí. 1SG eat-OVS-PFV yam 2SG eat-OVS-PFV yam 3SG eat-OVS-PFV yam 'I have eaten yam.'
 'You have eaten yam.' 'S/he has eaten yam.'
 - \Rightarrow <u>Clitic subjects occupy the same position as E/A</u>, I. E/A is not present because clitic φ -features condition a null allomorph of I.
 - \Rightarrow Non-clitic subjects in PFV/NEG clauses cannot condition null I, they must not be in IP.
 - Clitic subjects in rV-clauses immediately precede the verb (9), like non-clitic subjects (3a).

(9)	a.	M rì- rì jí.	b. Í rì- rì jí.	c. Ó rì- rì jí.
		1sG eat- rV yam	2sG eat- rV yam	3SG eat- rV yam
		'I ate yam.'	'You ate yam.'	'S/he ate yam.'

 \Rightarrow Clitic and non-clitic subjects both occupy the IP-layer in -rV clauses.

Takeaways

- The same functional head (10) is present in all clause-types it always surfaces as E/A when subject is ϕ -featureless.
 - (10) **VI Rules:**
 - a. $I \rightarrow \emptyset / [\phi]$
 - b. $I \rightarrow e/a$
- Variation between clauses is whether or not non-clitic subjects also trigger E/A.
- In PFV and NEG clauses, E/A must occur. This signals that these subjects are not in IP, but hosted in a higher layer of the clause.
- Clauses where non-clitic subjects are hosted higher are those that ban A'-extraction.

3. Higher structure is blocked in subjunctives

- Clauses which involve the CP-layer, i.e., clauses with higher subjects or clauses with focus fronting, should be incompatible with clause types which require different Cs.
- This prediction is born out in subjunctives, which contain the complementizer $k\dot{a}$ (11).
- (11) Ézè kwèrè [kà Àdá gá-á órírí].
 Eze agree C_{SBJV} 1SG go-OVS party
 'Eze allowed Ada to go to the party.' (Subjunctive)
 - Subjunctives cannot be negated with -ghi (12).
- (12) *Ézè kwèrè [kà Àdá á- !gá -ghí órírí]. Eze agree C_{SBJV} Ada E/A- go -NEG party Int:. 'Eze allowed Ada to not go to the party.' (Subjunctive, X E/A NEG)
 - Negation must be expressed periphrastically with the lexical verb ghàrà 'ignore'/'leave off'.
- (13) Ézè kwèrè [kà Àdá ghàrà í-¹gá órírí].
 Eze agree C_{SBJV} Ada ignore NMLZ-go party 'Eze allowed Ada to not go to the party.'
 (lit. 'Eze allowed Ada to leave off going to the party.')
 - Focus fronting cannot target the subjunctive left periphery (14).
- (14) *Ézè kwèrè [kà órírí_i kà Àdá gá-á __i].
 Eze agree C_{SBJV} party C_{WH} Ada go-OVS
 Int:. 'Eze allowed Ada to go to the PARTY.' (Subjunctive, X C_{WH})
 - \Rightarrow Clauses which we propose involve higher structure are incompatible with C_{SBJV} kà.

- Clauses embedded under *nà*, a high embedding head (*e.g.*, Rizzi's 1997 Force⁰; Amaechi, 2020), permit perfective *-lá*, negative *-ghí*, and focus fronting.
- (15) Ézè chè [nà Àdá á- !gá -ghí skúùl].
 Eze thinks that Ada E/A- go -NEG school
 'Eze thinks that Ada did not go to school.' (nà, ✓ E/A NEG)
- (16) Ézè chè [nà órírí_i kà Àdá gà-rà __i].
 Eze think that party C_{WH} Ada go-rV
 'Eze thinks that Ada went to the PARTY.' (nà, ✓ C_{WH})
- \Rightarrow The subjunctive embedding restriction is not due to these being 'root' phenomena. The subjunctive C is one of the low Cs competing for the same position as C_{SBJ} and C_{WH} .
- The same I (10) is present in subjunctives; it spells out as E/A with impersonal subjects (17).
- (17) Ézè kwèrè [kà é- ¹sí-é òkúkò].
 Eze agree C_{SBJV} E/A- cook-OVS chicken
 'Eze allowed someone to cook chicken.'
 - Non-clitic subjects do not occur with E/A in subjunctives (11).
 - ⇒ Subjects in subjunctives are below C_{SBJV}, i.e., IP-internal. Null I is conditioned, as predicted.

Takeaways

- Blocked embedding in subjunctives show that clauses like NEG involve higher structure.
- C_{SBJ} and C_{WH} involve similar layers of structure where one cannot be embedded, neither can the other. C_{WH} , C_{SBJ} , & C_{SBJV} are all in complementary distribution.
- Structural competition uniformly derives ban on A'-movement and ban on embedding.

4. [ϕ]-bearing subjects with E/A always block extraction: 1SG-inversion

- 1sG-inversion is a final clause type that we can account for within our proposal.
- In -rV clauses, non-clitic subjects and E/A do not co-occur (18).
- (18) Àdá (*é)- rì -rì jí. Ada (*E/A)- eat -rV yam 'Ada ate yam.'
 - 1SG pronoun conditions I's null allomorph (19). When 1SG pronoun *follows* the verbal complex (20), E/A must surface (*mu* permutation; Goldsmith, 1981).
- (19) $\mathbf{\dot{M}}$ (*é)-rì-rì jí. **1**SG (*E/A)-eat-rV yam '*I ate yam.*' (20) $\mathbf{\dot{E}/A}$ -eat -rV **1**SG yam '*I ate yam.*'

- 1sg-inversion is also possible in perfective and negative clauses.
- (21) $\mathbf{\hat{M}}$ (*é)- !rí -é -lá !jí. **1**SG (*E/A)- eat -OVS -PFV yam '*I have eaten yam.*' (22) $\mathbf{\hat{K}}$ (22) $\mathbf{\hat{K}}$ (22) $\mathbf{\hat{K}}$ (23) $\mathbf{\hat{K}}$ (24) $\mathbf{\hat{K}}$ (27) $\mathbf{\hat{K}$ (27) $\mathbf{\hat{K}$ (27) $\mathbf{\hat{K}}$ (27) $\mathbf{\hat{K}$ (27)
 - 1SG-inversion structures are another case where a φ -bearing subject must occur with E/A.
 - \Rightarrow The 1SG pronoun in these constructions is not IP-internal.
 - 1SG-inversion involves movement of the 1SG pronoun to the same higher layer as in PFV and NEG. See also Eze (1995).
 - The inverted order is a due to a *postsyntactic* operation which reverses the linear order of the 1SG pronoun and the verbal complex after VI, *Local Dislocation* (Embick and Noyer, 2001).
 - 1sG-inversion structures should (i) block A'-extraction, and (ii) be incompatible with subjunctive *kà*. This is borne out exactly.
 - -rV clauses permit extraction (23), but this is blocked with 1SG-inversion (24).
- - 1SG-inversion structures cannot be embedded under subjunctives (25), 1SG must be preverbal (26).
- (25) *Ézè kwèrè [kà $\left[\begin{array}{c} 4 \\ Eze \ agree \end{array} \right]$ gá-á **m** skúùl]. Eze agree C_{SBJV} E/A- go-OVS **1SG** school Int.: '*Eze allowed me to go to school.*'
- (26) Ézè kwèrè [kà m gá-á skúùl].
 Eze agree C_{SBJV} 1SG go-OVS school
 'Eze allowed me to go to school.'
 - 1SG-inversion can be embedded wherever C_{SBJ} and C_{WH} can be, e.g., under $n\dot{a}$ (27).
- (27) Ézè chè [nà á-gà-rà m skúùl].
 Eze thinks that E/A-go-rV 1SG school
 'Eze thinks that I went to school.'
 - \Rightarrow Whenever the presence of a subject with φ -features does not block E/A, both A'-extraction and subjunctive embedding are banned.
 - Takeaways
 - E/A occurs in configurations out of which extraction and subjunctive embedding is banned, but it is not directly responsible for the ban.
 - Other morphology in the clause is definitively ruled out as source of restriction: -rV clauses permit A'-extraction, even when E/A surfaces with an impersonal subject (7).
 - This systematic set of properties holds across clauses in the language, Table 1.

CLAUSE TYPE	SUBJECT OCCURS WITH E/A? Clitic Non-Clitic		A'-EXTRACTION?
-rV	no	no	yes
FUT	no	no	yes 2
IPFV	no (1)	no	yes
PFV	no	yes	no
NEG	no	yes	no (3)
1sg-inversion		yes	no

Table 1: Summary. (1) Clitic subjects have the same distribution in all clauses. (2) & (3) Cooccurrence of E/A with a subject with φ -features determines availability of A'-extraction.

5. Analysis

- We formalize the following properties of the clausal left periphery:
 - In all clauses, E/A surfaces in the absence of IP-internal ϕ -features, as evidenced by impersonal subjects.
 - In -rV clauses, neither clitic nor non-clitic subjects occur with E/A.
 - In PFV and NEG clauses, clitic subjects do not occur with E/A, non-clitic subjects must.
 - PFV and NEG clauses involve higher structure that *-rV* clauses do not, as evidenced by extraction and subjunctive embedding restrictions.
- As discussed, $\mbox{E/A}$ is the exponent of I in the absence of $\phi\mbox{-}features,$ in all clause-types.
- (28) **VI Rules:**
 - a. $I \rightarrow \emptyset / [\phi]$

b. $I \rightarrow e$

- -rV CLAUSES
 - -rV clauses are IP-sized.
 - Non-clitic subjects occupy spec, IP. Clitic subjects move to and adjoin to I (see e.g., Kayne 1991; Roberts 2010 on Romance clitics).
 - Both types of subjects condition the null allomorph of I.
 - These clauses do not contain an obligatory CP-layer, permitting A'-extraction driven by, e.g., C_{WH} (5).

(31)

- (29) Àdá rì-rì jí. Ada eat-rV yam 'Ada ate yam.'
- (30) Non-clitic subject

3sG eat-rV yam 'S/he ate yam.'

Ó rì-rì jí.

(32) Clitic subject



• These structures converge on existing proposals for *-rV* clauses, e.g., Déchaine (1993); Amaechi (2020); Jian (2024).

PFV & NEG CLAUSES

- These clauses contain an obligatory CP-layer. We propose that the same is true for perfectives and negation, but we leave it to future work to explain why they share this structure.
- Clitic subjects move to and adjoin to I, as in -rV clauses.
- The IP-internal position for non-clitic subjects, i.e., spec,IP, is not available in these clauses (e.g., a 'defective' I that lacks a specifier).
- Non-clitic subjects are hosted in spec, CP.
- This derives the observed morphological form: clitic subjects, which always head-adjoin, condition the null allomorph of I, but non-clitic subjects in spec,CP cannot.
- The higher layer blocks the projections necessary for A'-extraction, e.g., C_{WH} .



ACCOUNTING FOR EXTRACTION RESTRICTIONS

- Previous accounts attribute the extraction restriction to the presence of E/A directly, proposing that it is a nominalizer (Amaechi, 2020, building on Déchaine, 1993).
- If E/A blocked extraction as a nominalizer, this predicts that there should be a subject/nonsubject asymmetry because the subject linearly precedes E/A, i.e., it is *above* the nominalizer.
- No asymmetry is observed, illustrated with relativization (shown to involve A'-movement; Amaechi, 2020):
- (37) *Ńrí [É'zé é-sí-é-lá] nà é-sì ísì ómá.
 food Eze E/A-cook-OVS-PFV PROG E/A-smell smell good.
 Int.: 'The food that Eze has cooked smells good.'

- (38) *Ńdí [é-sí-é-lá ńrí à] mà-à-rà í-sí ń[!]rí òfúmá. people E/A-cook-OVS-PFV food PROX be.good-APPL-rV NMLZ-cook food well. Int.: 'The people that have cooked this food cook well.'
 - We have argued that E/A does not block extraction, but can signal the presence of higher structure which competes with Cs required for A'-extraction no subject/non-subject as-symmetry predicted.
 - Beyond extraction restrictions, nominalization-based accounts do not provide any treatment of the embedding restrictions we have discussed.

6. Summing up

- Our proposal unifies a disparate set of facts: the distribution of clitic/non-clitic subjects, impersonal and inverted subjects, A'-movement restrictions, and embedding restrictions.
- The core conclusion we reach is that clauses systematically fall into classes with respect to the position occupied by their subject.
- This has already been discussed for Igbo Jian (2024) argues that *wh in-situ* and polar interrogative constructions in the language *also* result in movement of the subject to the CP-domain.
- Subjects occupying a higher position in indicative clauses has been observed across the Niger-Congo language family (Baker, 2003; Henderson, 2006; Schneider-Zioga, 2007; Martinović, 2015, 2023).
- Igbo presents an interesting case where this property covaries with changes in lower clausal domains, here, aspect and negation.

7. Acknowledgements

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A. E/A is not a nominalizer

- E/A structures do not pattern with nominals in distribution, cf., I- prefixed or O+REDUPprefixed verb stems (Ezeamuzie, 2020).
- (39) [Í!-tá ánú é!wú] sì-rì íké.
 NMLZ-chew meat goat be.difficult
 'Eating goat is difficult.'
- (40) [Ò-tí-tá ánú é[!]wú] sì-rì íké. NMLZ-REDUP-chew meat goat be.difficult
 'Eating goat is difficult.'
- (41) *[À-tá ánụ é'wú] sì-rì íké.
 E/A-chew meat goat be.difficult
 Int.: 'Eating goat is difficult.'
 - Often-referenced evidence draws on tonal parallels between E/A found in PFV verbal complexes and the E/A found in putative nominalizations, e.g., in FUT/IPFV clauses.
 - This does not hold across different Igbo varieties. In the variety described here, the tone on E/A in putative nominalizations is *polar*, e.g., L if verb root is H, H if verb root is L.
 - In the PFV, the tone matches the last syllable of the subject if the root is H (42), otherwise it is always L if the root is L (43).

(42)	a.	Àd á [!]é- rí-é-lá [!] jí. Ada E/A-eat-OVS-PFV yam	(43)	a.	Àdá à-ghà -á-lá [!] gí. Ada E/A-leave-OVS-PFV 2SG
		'Ada has eaten yam.'			'Ada has left you.'
	b.	Éz è è- rí-é-lá [!] jí. Eze E/A-eat-OVS-PFV yam		b.	Ézè à-ghà -á-lá [!] gí. Eze E/A-leave-OVS-PFV 2SG
		'Eze has eaten yam.'			'Eze has left you.'

B. Extraction in perfectives without E/A

- A repair strategy for extracting out of perfectives is available, showing that the perfective morphology itself is not the source of the extraction restriction.
- (44) Há 'é-nwété-lá é'gó. 3PL E/A-get-PFV money 'They have gotten money.'
- (45) *[Égó há [!]é-nwété-lá _] jù-rù há ányá. money 3PL E/A-get-PFV satisfy-rV 3PL eye Int.: 'The money they have gotten satisfied them.'
 - The only form of the perfective which can be used in A'-extraction contexts lacks E/A.
- (46) [Égó há nwètè-rè-lá] jù-rù há ányá. money 3PL get-rV-PFV satisfy-rV 3PL eye 'The money they have gotten satisfied them.'