1 Introduction

Raising (cross-clausal A-movement) is made possible by two factors:

1. Structural incompleteness of the lower clause, e.g. as a TP
2. Caselessness of lower subjects, allowing them to get case and satisfy higher clause EPP

These two factors account for the distribution of raising in English:

(1) a. It seems [CP that Kuku chopped down the tree].
   b. Kuku_i seemed [TP _ti to chop down the tree].
   c. *Kuku seemed [CP that _ti chopped down the tree].

My goal: To account for the availability of hyerraising in Moro using these same notions:

(2) a. Kuku g-a-róma-t-iə [(*nó) g-[lē]jůd-á ugi ]
   K. clg-RTC-continue-ipfv (λ.comp) clg-DPC1-chop-ipfv clg.tree
   ‘Kuku kept chopping the tree’

   b. orán g-a-n:n-ó Kuku-ŋ [(*nó) g-[lē]-land-ó λwúr ]
   man clg-RTC-hear-pfv Kuku-acc λ.comp clg-DPC1-close-pfv clj.door
   ‘The man heard Kuku close the door’

Section 2 Evidence for hyerraising

• (2a): Hyerraising to subject
• (2b): Hyerraising to object

Section 3 Pseudorelatives in Moro as reduced clauses

• Pseudorelatives: Apparent relative clauses which occur as predicates (Cinque 1995)

(3) a. Ho visto [ Mario che correva a tutta velocità ]. (Italian)
   b. J’ai vu [ Mario que courait à toute vitesse]. (French)
   c. I saw Mario running at full speed.

• I will argue that Moro pseudorelatives are reduced CPs embedded in small clauses

Section 4 Dependent case in Moro

• Moro accusative case is a dependent case; subjects are caseless (Jenks and Sande 2016)
• As subjects lack case, they can move into case positions in the higher clause
• Syntactic licensing/ Abstract Case is not needed to account for these patterns
2 Hyperraising

Moro (Niger-Congo, Kordofanian, W. Heiban)

- Kordofanian language, spoken in the Nuba mountains of Sudan and by the Moro diaspora in Khartoum and beyond
- The Moro and surrounding community are fighting a tragic civil war against the Sudanese government (see nubareports.org)
- My data from the Thetogovela dialect have been provided thanks to a family in San Diego and one Moro language activist who lives in Khartoum

Main clauses, subject relative clauses, and non-subject relative clauses contain distinct inflectional ‘clause vowels’ (Jenks and Rose to appear):

\(a/\alpha\)- Finite root clauses with no extraction, ‘root clause vowel’ = RTC, (4a)

\(\epsilon/\iota\)- Subject relative clauses, ‘dependent clause vowel 1’ = DPC1, (4b)

\(\delta\)- Non-subject relative clauses, ‘dependent clause vowel 2’ = DPC2, (4c)

(4)

a. \textit{Kuku g-} [\textit{[A]} satf-ú \textit{jamala}]
   Kuku clg-RTC-see-pfv clj.camel
   ‘Kuku saw the camels.’

b. \textit{jamalá} \textit{[\textit{-s}: [\textit{[A]} satf-ú \textit{Kuku}]}]
   clj.camel sclj-DPC1-see-pfv Kuku
   ‘the camels that saw Kuku’

c. \textit{jamalá} \textit{[\textit{-s}: (n\ddot{s} = ) \textit{Kuku (n\dot{s} -) g-} [\textit{[A]} satf-ú} ]}
   clj.camel -scl ťcomp= Kuku comp-clg-DPC2-see-pfv
   ‘the camels that Kuku saw’

- Relative clauses are otherwise regular finite verbs.

However, the subject relative clause vowel also occurs in the complements of certain predicates:

(5)

a. \textit{Kuku g-} [\textit{a-rámɒt-iə} \textit{ugí}]
   K. clg-RTC-continue-ipfv clg-DPC1-chop-ipfv clg.tree
   ‘Kuku kept chopping the tree’

b. \textit{oráŋ g-} [\textit{a-n-ó} \textit{Kuku-ə} \textit{awúr}]
   man clg-RTC-hear-pfv Kuku-acc clg-DPC1-close-pfv clj.door
   ‘The man heard Kuku close the door’

(6)

a. Direct perception (R-t-O): \textit{-n-} ‘hear’, \textit{-sátf-} ‘see’, \textit{-wónɑt-} ‘watch’, \textit{-wáð-} ‘find’, \textit{-bɒd-} ‘stumbled across’, \textit{-ánd-} ‘catch’

b. Desiderative (R-to-O): \textit{-bwáŋ-} ‘want’

c. Modal (R-to-S): \textit{-án-} ‘seem’

d. Aspectual (R-to-S): \textit{-rámɒt-} ‘continue’

→ I will show these are raising predicates, where the relative ‘head’ occurs in the higher clause.
2.1 Evidence for raising

- DPs in the higher clause can be inanimate, so aren’t agents (unlike control) (7)
- Quasi-idiomatic meanings can be preserved (8)

(7) Inanimate nouns are possible in raised positions

a. ŋáw ʃ ʃ -a-rámt-ɨ ŋ-é-t 钐-med ʃ 钐-cl ʃ 钐-DPC1-r 钐-m-IPFV
   CLJ-water CLJ-RTC-cont 钐-p-IPFV CLJ-DPC1-rain-IPFV
   ‘It keeps on raining.’

b. é-g-a-n-ː-ā ŋáw ŋ-é-t 钐-med ʃ 钐-cl ʃ 钐-DPC1-rain-IPFV
   1SG-CLJ-RTC-hea 钐-p-IPFV CLJ-water CLJ-DPC1-rain-IPFV
   ‘I hear it raining.’

(8) Idiomatic interpretations preserved in raising

a. ʃ ʃ -i-sí-ː y ʃ ʃ -a-rámt-ɨ ʃ ʃ -i-p-ón-ː y ʃ ʃ -i
   CLJ-gun CLJ-RTC-cont 钐-p-IPFV CLJ-DPC1-hit-IPFV
   ‘The gun kept being fired.’

b. é-g-a-n-ː-ó ʃ ʃ -i-sí-ː j-í-bug-ɔn-ːú
   1SG-CLJ-RTC-hear-IPFV CLJ-gun CLJ-DPC1-strike-IPFV
   ‘I heard the gun be shot.’

- Additionally, (8a-b) show that passivization can feed hyperraising, so the raised arguments must be interpreted in the lower VP.

Second, the raised DP is an argument of higher clause:

**Subject** the verb agrees with the raised argument like a normal subject ((7a), (8a)).

**Object** clear evidence comes from case marking (9), pronominal cliticization (10), verb-particles (15), passives of raising-to-object (12), and adverbs (not shown).

(9) orán ʃ ʃ -g-a-n-ː-ó ʃ ʃ -i-sí-ː y ʃ ʃ -a-rámt-ɨ ʃ ʃ -i-p-ón-ː y ʃ ʃ -i Kuku-ŋ Kuku-ŋ ʃ ʃ -i-buŋ ː-án-ú ʃ ʃ -i Kuku-ŋ Kuku-ŋ ʃ ʃ -i-buŋ ː-án-ú
   man CLJ-RTC-hea 钐-p-IPFV Kuku-ACC CLJ-DPC1-cl 钐-w 钐-cl 钐-DPC1-f 钐-IPFV door
   ‘The man heard Kuku close the door’

(10) é-g-ʃ ʃ ʃ -a-d-yor-n-ː-ako ʃ ʃ -i-sí-ː y ʃ ʃ -a-rámt-ɨ ʃ ʃ -i-p-ón-ː y ʃ ʃ -i
   1SG-CLJ-RTC-3SG-OM-hea 钐-p-IPFV CLJ-DPC1-cult 钐-IPFV LOC-field
   ‘I hear him cultivating in the field.’

(11) é-g-ʃ ʃ ʃ -a-d-yor-n-ː-ako ʃ ʃ -i-sí-ː y ʃ ʃ -a-rámt-ɨ ʃ ʃ -i-p-ón-ː y ʃ ʃ -i Kuku-ŋ Kuku-ŋ ʃ ʃ -i-buŋ ː-án-ú ʃ ʃ -i Kuku-ŋ Kuku-ŋ ʃ ʃ -i-buŋ ː-án-ú
   1SG-CLJ-RTC-fall-IPFV Kuku-ACC-at CLJ-DPC1-cult 钐-IPFV LOC-field
   ‘I stumbled across Kuku cultivating the field.’

(12) Kuku ʃ ʃ -g-a-n-ː-ý ʃ ʃ -i-sí-ː y ʃ ʃ -a-rámt-ɨ ʃ ʃ -i-p-ón-ː y ʃ ʃ -i
   Kuku 1SG-CLJ-RTC-hea 钐-p-IPFV CLJ-DPC1-cult 钐-IPFV LOC-field
   ‘Kuku was heard cultivating in the field.’

→ The DP is interpreted in the lower clause; its surface position is in the higher clause.
Hyperraising has been analyzed as copy raising or prolepsis (Ura 1994; Nevins 2004):

(13) John looks like he is sick.

Moro allows pro-drop, so we need to show that hyperraising isn’t copy raising. Three arguments:
1. Only the subject can move to the higher clause, unlike copy-raising:

(14) John looks like Mary impressed him.

(15) *é-g-a-bəð-ó  Kúku-ŋ-nano [ Káka g-i-p-: [ōŋō] i ]
1SG-CLG-RTC-fall-PFV Kuku-ACC-at Kaka CLG-DPC1-beat-3SG.OM
‘I stumbled across Kuku like Kaka was beating him.’ (intended)

2. Copy raising in English requires direct evidence (Asudeh and Toivonen 2012); while true for some HR-to-O, it is untrue for HR-to-S with ‘continue’ (8a) and HR-to-O with ‘want’:

(16) é-g-a-bwáɲ-á was-ŋ-o [ k-é-dát-tod-a ram ]
1SG-CLG-RTC-want-PFV CLG.wife-1SG.POSS ACC CLG-DPC1-ITER-move-PFV early
‘I want my wife to get up early’

3. Last, complementizers are never allowed in hyperraising, unlike control/prolepsis (§3).
→ The predicates above trigger overt A-movement to their subject or object position.

2.2 Hyperraising issues

Two factors seem to be involved in raising in Moro and other languages:
1. An EPP feature on T (R-to-S) or V (R-to-O) (cf. (Lasnik 2003)
2. A theory of CP/TP permeability (Carstens and Diercks 2013; Halpert 2016)

Now compare English:

(19) a. *It seemed [CP that t_i was raining ]
   b. *I expected Kuku [CP that t_i cultivated in the field ]

→ What leads to the permeability of the pseudorelative clause?
3 Pseudorelatives in Moro as reduced clauses

Raising-to-object verbs can take a root-CP complement in addition to PRs:

- These root CP complements do not allow raising (20b)
- Compare the raising structure in (20c)

(20) a. é-g-a-nː-ó [CP fá] ísːíə j[\text{\text{g}}]j\text{-} bug\text{-}ən\text{-}ű ]
   1SG-CLG-RTC-hear-PFV COMP Clj.gun Clj-RTC-strike-PAS-PFV
   'I heard that the gun was shot.'

b. *é-g-a-nː-ó ísːíə [CP fá t j[\text{\text{g}}]j\text{-} bug\text{-}ən\text{-}ű ]
   1SG-CLG-RTC-hear-PFV Clj.gun COMP Clj-RTC-strike-PAS-PFV
   'I heard that the gun was shot.'

c. é-g-a-nː-ó ísːíə [\text{(}\text{*fá/*nə)}] t j-i\text{-} bug\text{-}ən\text{-}ű
   1SG-CLG-RTC-hear-PFV Clj.gun (COMP/\lambda\text{COMP}) Clj\text{-}dpc1\text{-}strike-PAS-PFV
   'I heard the gun be shot.' = (8b)

→ Not all clauses are permeable in Moro.

In this section: Moro pseudorelatives are structurally reduced clauses, equivalent to FinP/TP.

3.1 Moro pseudorelatives are not Italian pseudorelatives

Pseudorelatives in Romance (Cinque 1995, ex. (1-2)) (these also occur in Greek):

(21) a. Ho visto [ Mario che correva a tutta velocità ].  (Italian)
    b. J’ai vu [ Mario que courait à toute vitesse].  (French)
    c. I saw Mario running at full speed.

- If these constructions were identical to their Moro counterparts, we would have a good head start on understanding Moro pseudorelatives
- But syntactic and semantic properties of these constructions show they are distinct in certain instructive ways

In Italian (22), but not in Moro (23), there is good evidence from focus clefts that the bracketed constituent above form a constituent (Cinque 1995, ex. (5)):

(22) MARIO CHE PIANGEVA, ho visto!
      Mario that was weeping (focus), I saw

(23) a. *\text{\text{η}}\text{\text{w}}-\text{gúkú gê-lágá} i-\text{ki}, \text{\text{égó}}-(\text{\text{η}}\text{Jos})-nː\text{ó} t_{i}
    FOC-Kuku Clg.dpc1\text{-}saw.ipfv LOC-field 1SG.Clg.dpc2\text{-}3SG.OM-hear.ipfv

b. \text{\text{η}}\text{\text{w}}-\text{[matfïkï gi-pwí} \text{ðərəb\text{\text{g}}w\text{\text{ sympathetic}} \text{\text{égó-}nó-bwápnà}
    FOC-man Clg.dpc1\text{-}beat.ipfv lyre 1SG.Clg.dpc2\text{-}3SG.OM-like.ipfv
    'It’s the man that plays the lyre who I like.'
Cinque (1995) argues that PRs are small clauses with CP predicates.
I will adopt this general idea, with the caveat that the DP obligatorily moves out of the PR in Moro (but apparently not in Italian).

Moulton and Grillo (2015) show that Italian PRs are instances of direct perception (24a), like infinitives (24b), but unlike finite CPs (24c):

(24) a. *Gianni ha visto [ Maria piangere ] ...ma pensiva ridesse.*
   Gianni has seen [ Maria cry.INF ] ...but thought laugh.SBJ  
   ‘Gianni saw Maria cry but thought she was laughing.’  (Direct perception)

   b. *Gianni ha visto [ Maria que piangeva ] ...ma pensiva ridesse.*
   Gianni has seen [ Maria that cry.IPV ] ...but thought laugh.SBJ  
   ‘Gianni saw Maria crying but thought she was laughing.’  (Direct perception)

   c. *Gianni ha visto dalle lacrime [ que Maria piangeva ] ... ma pensiva ridesse.*
   Gianni has seen from.the tears [ that Maria cry.IPV ] ... but thought laugh.SBJ  
   ‘Gianni saw Maria crying, #but thought she was laughing.’  (Indirect perception)

Additionally, Moulton and Grillo demonstrate that infinitive and PR direct perception have different semantics from each other:

- Infinitives are existentially quantified situations, and can be negated (25a), cf. (26a-b)
- PRs project existence presuppositions for the situation, akin to definites (25b), cf. (26c-d)
- Strikingly, Moro PRs pattern with Romance infinitives rather than PRs (27).

(25) a. *Dato che Maria non ha mai ballato, Gianni non ha mai visto [ Maria ballare ].*
   Given that M. NEG has never danced, G. NEG has never seen M. dance.INF.  
   ‘Since M. has never danced, G. has never seen M. dance.’

   b. *#Dato che M. non ha mai ballato, Gianni non ha mai visto [ M. che ballava ].*
   Given that M. NEG has never danced, G. NEG has never seen M. that dance.IPV.  
   ‘Since M. has never danced, G. has never seen M. dancing.’

(26) a. John saw Mary leave.
   b. John didn’t see Mary leave (...because she never left.)
   c. John saw Mary’s departure.
   d. John didn’t see Mary’s departure (...#because she never left.)

(27) bôte-bôte Kuku gé-nná (n=)jʊŋ-sɛtfá kuku-ŋ
   never Kuku clg.DPC1-neg.aux (lambda=)3SG.INF-watch.IPV Kuku-ACC
gé-lágá  gi
clg.DPC1-cultivate.IPV field
   ‘Kuku has never seen Kuku cultivating the field.’
   \(\rightarrow\) *Fine in a context where Kuku has never cultivated the field*

- Similar contrasts occur in other opaque environments, such as conditionals (not shown)
Moulton and Grillo: Italian PRs are definite descriptions describing a situation (ex. 24-25):

(28)  \[
\text{DP D [CP Maria C}_{\lambda(1,2)} \left[ \text{TP past/s}_{2} [\text{AspP IPFV [VP (Maria) ballava ]}]]]}
\]

→ This can’t be right for Moro, however, as Moro PRs aren’t definite descriptions.

### 3.2 Moro pseudorelatives are not full CPs

Moro has two complementizers, both of which can be freely omitted in most environments:

- \( t\hat{a} (=}\text{comp} \) occurs with root, subjunctive, and some infinitive object control complements (29)
- \( n\acute{\text{o}} (=}\lambda\text{comp} \) occurs in instances of non-subject extraction and in some control clauses (30)

(29) **Complement clauses with \( t\hat{a} \)**

a. \( \text{éga}-\text{lónêta} \)

\[
\text{Kukú k\hat{a}-(g\acute{a})-}\text{tun\acute{d}ú}
\]

\( 1\text{sg.CLG.RTC-know.IPFV \ Comp1 Kuku PST-CLG.RTC-cough.PFV } \)

'I know that Kuku had coughed.'

b. \( \text{éga}-\text{mwand̪öō} \text{ Kukú-u-\eta} \)

\[
\text{Kukú k\hat{a}-(g\acute{a})-n\acute{oân\acute{a}} d\acute{a}mala}
\]

\( 1\text{sg.CLG.RTC-ask.PFV \ Kuku-ACC \ Comp1 CLG.DPC2-watch.IPFV CLJ.came} \)

'I asked Kuku that he watch the camel.'

c. \( \text{é-g-a}-\text{mwand̪öō kúkú-u-\eta} \)

\[
\text{Kukú k\hat{a}-(g\acute{a})-bú\acute{g}í i\acute{s}i\acute{ó}}
\]

\( 1\text{sg-CLG-RTC-ask-PFV \ Kuku-ACC \ Comp1 3sg-INF-hit.INF1 CLJ.gun } \)

'I asked Kuku to shoot the gun.'

(30) **Clauses with \( n\acute{o} \) (which can double)**

a. \( \text{jamalâ} \)

\[
\text{Kukú [n\acute{o}]-}\text{g\acute{a}-}\text{sátjú}
\]

\( \text{CLJ.came} \text{-REL.OP} \lambda.\text{Comp= Kuku Comp2-CLG.DPC2-see.PFV } \)

'the camels that Kuku saw'

b. \( \text{Kukú g-}\text{ond\acute{a}f\acute{in}û} \)

\[
\text{Kukú [n\acute{o}]-}\text{l\acute{wó\acute{f}a n\acute{á}lo-\eta}}
\]

\( \text{Kuku CLG.(RTC)-try.PFV} \lambda.\text{Comp=}3\text{sg-INF-hide.INF2 Ngalo-ACC } \)

'Kuku tried to hide Ngalo.'

All raising environments prohibit overt complementizers (Jenks and Rose to appear):

(31) a. \( \text{Kukú g-}\text{id̪-â} \)

\[
\text{(*)}\hat{a} \lambda\text{ŋ-sdjōm-é}
\]

\( \text{Kuku CLG.(RTC)-do/will.PFV Comp1 3sg-INF-move-INF1 } \)

'Kuku will move.'

b. \( \text{é-g-a-bwâp\acute{a}} \text{ n\acute{aw} (}\hat{a} \lambda\text{ŋ-sdôt-é} \)

\( 1\text{sg-CLG-RTC-want.PFV CLJ.water } \text{(Comp1) 3sg-INF-rain-INF1 } \)

'I want it to rain.'

- I conclude that all raising environments in Moro are not full CPs (cf. Bošković 1997)
- Subject relative clauses and PRs lack complementizers, so they must also be reduced
3.3 A proposal

(32) \[{}_{\text{Force}} P_{\text{Force}} {}_{\text{Fin}} P_{\text{Fin}} [{}_{\text{TP}} T \ldots ] \]  (Rizzi 1997)
   a. English C \leftrightarrow [{}_{\text{Force}}, {}_{\text{Fin}}]
   b. Moro C \leftrightarrow [{}_{\text{Force}}]
   c. Moro T \leftrightarrow [{}_{\text{Fin}}, {}_{T}]

• [Spec, FinP] is the A-position for subjects in Moro
• Accounts for the independence of force and finiteness in Moro

(33) Complementizers
   a. \( t\acute{a} \leftrightarrow \text{[Force:Decl]} \)
   b. \( n\acute{o} \leftrightarrow \text{[Force:Decl, uWh]} \)

(34) Clause vowels
   a. \( a \leftrightarrow \text{[Fin: Indicative]} \)
   b. \( \acute{o} \leftrightarrow \text{[Fin: Subjunctive]} \)
   c. \( \acute{e} \leftrightarrow \text{[Fin: Predicative]} \)

(35) \[ \text{VP see } [{}_{\text{Pred}} P_{\text{Kuku}} \text{Pred}_{\lambda s} [{}_{\text{TP}} s [{}_{\text{Asp}} P_{\text{IPFV}} [{}_{\text{VP}} \langle \text{Kuku} \rangle \text{cultivating the field }]]]] \]

Syntax
• Subjects raise to [Spec, PredP] due to an EPP feature on Pred
• This is also an A-position, and can feed further A-movement (raising, passives)
• A movement always reconstructs

Semantics
• CP-sized PredPs denote sets of situations
• Pseudo-relative selecting verbs have lexical entries that can take sets of situations as their internal argument

(36) a. \([{}_{\text{PredP}}] = \lambda s.\exists s'[s \leq s' \& \text{cultivate}(k, \text{field}, s)]\)
   b. \([\text{see}] = \lambda P_{(s,t)}.\lambda e.\exists s''[\text{see}(s'', e) \land P(s'')]]\)
   c. \([\text{VP}] = \lambda e.\exists s''[\text{see}(s'', e) \& \exists s'[s'' \leq s' \& \text{cultivate}(k, \text{field}, s')]]\)

This account naturally extends to dpc1 in absolute clauses (Rose et al. 2014, ex. 29):

(37) \( \eta\acute{a}\acute{l}o \ ga-v\acute{a}l\acute{\i}n\acute{a} \ l\acute{d}z\acute{\i} \ l\acute{\i}\acute{\i}l-l\acute{\l}\acute{\i}l\acute{\i}l-\acute{\l}\acute{\i}v\acute{a}t\acute{\i}f\acute{\i}a \ um\acute{i}o \)
Ngalo cllptc-prog.sing/IPFV cll.man cll-dpc1-iter-hide/IPFV cll.man 'Ngalo is singing while the men are hiding the boy.'

• Some rule of situation-identification will allow these to modify matrix TP
• (37) also shows that dpc1 can occur with an overt subject, so it isn’t wh-agreement.
Unlike full ForcePs, I suggest that FinPs are not phases.

- Normal relative clauses are islands for extraction (38)
- But PR complements are transparent for extraction (39)

(38) a. Kuku ga-bʷáɲá madží-ki [gʷano əŋálo-ŋ]
   Kuku clg.RTC-like.PFV man-REL.OP clg.(DPC1)-insult.PFV Ngalo
   ‘Kuku likes the man who insulted Nalo.’

b. *ŋʷə́-dʒə́-ki Kuku ga-bʷáɲá madží-ki [gʷaró-(ŋó)]
   FOC-WHO-REL-OP Kuku clg.RTC-like.PFV man-REL.OP clg.(DPC1)-insult.PFV-(3SG.OM)
   Intended: ‘Who does Kuku like that man who insulted (him)?’

(39) ēň-ʌnď-ki ŋálo ꜱ̌-setfú Kuku-ŋ [gí-valīďó]
   FOC-WHAT-REL-OP λCOMP=Ngalo clg.DPC2-see.PFV Kuku-ACC clg.DPC1-buy.PFV
   ‘What did Ngalo see Kuku buy?’

- Carstens and Diercks (2013) make a similar proposal for Lubukusu, which only allows one of two kinds of complementizers in hyperraising
- Brazilian Portuguese hyperraising clauses exceptionally allows null subjects in finite clauses, possibly a sign of reduced size (Nunes 2008)
- Additional factors may also be possible for allowing hyperraising, including whether the C heads bear ϕ-features (Halpert 2016).
- Moro C heads clearly lack ϕ-features (they can’t be subjects, can’t trigger agreement) so they would not be expected to be interveners for A-movement in Halpert’s system.

4 Case and hyperraising

Moro is a dependent accusative case language (Jenks and Sande 2016)

- Subjects never receive morphological case features
- As a result, no conflicting case requirements arise after raising, even from finite clauses

4.1 Dependent vs. lexically governed case

- Baker (2015) argues that in many languages, case is dependent on the presence of another c-commanding DP in the same phase, following Marantz (1991).
- For Baker, once c-command between DPs is established in a phase (=ϕ), case is assigned either ‘up’ or ‘down’ at Spell Out

(40) Moro Dependent Case Rule
   If there are two DPs in ϕ, and DP1 c-commands DP2,
   a. Value DP2 as accusative.
   b. Where ϕ={CP, DP}
4.2 Evidence for Dependent Case in Moro

Four arguments in favor of dependent accusative case in Moro:

1. Both internal arguments of a ditransitive verb show accusative case.
2. The lower argument shows accusative case marking when a ditransitive is passivized.
3. In a genitive construction, the lower noun shows accusative case.
4. When two DPs are coordinated, the lower one (the second conjunct) shows accusative case, even in subject position.

Argument 1: Ditransitives
Both objects of ditransitive verbs surface with accusative case:

(41) éga-nac-ó ṅállo-ŋ kója-ŋ
1SG.RTC-give-PFV Ngallo-ACC Koja-ACC
‘I gave Ngallo to Koja’ / ‘I gave Koja to Ngallo.’

- Multiple accusative case in double object constructions is predicted by the dependent case account, all three arguments are c-commanded by the subject DP.

Argument 2: Passives
Accusative case is still assigned to internal arguments in passives:

(42) ṅállo gá-nac-ən-ú kója-ŋ
Ngallo clg.RTC-give-PASS-PFV Koja-ACC
‘Ngallo was given to Koja’ / ‘Ngallo was given Koja’

- If accusative case is assigned by v_{agent}, it should disappear in passive contexts

Argument 3: Bare nominal complements
‘Accusative’ case markers also show up on inalienable possessors in the absence of possessor agreement:

(43) a. ləŋg-ŋ Kúku-ŋ b. ləŋ-ŋ-en gá-Kúku
mom Kuku-ACC mother-3.poss clg.poss-Kuku
‘Mom of Kuku’ / ‘Kuku’s mom’

c. et̪-ŋ Kúku-ŋ d. et̪-en gá-Kúku
dad Kuku-ACC father-3.poss clg.poss-Kuku
‘Dad of Kuku’ / ‘Kuku’s dad’

- As there is no v to assign ACC inside the DP in (?), an Agree-based analysis of accusative case is untenable.
- Kuku (43a,c) is the complement of ‘mom’/’dad’, making it eligible for dependent case
- In (43b,d), the possessors raise to [Spec, n] which assigns inherent genitive case
**Argument 4: DP Coordination**

Coordination triggers accusative case on the second argument, even in subject position:

(44)  
\[
\begin{array}{c}
Kůku \quad \text{na} \quad \text{ŋalo-ŋ} \quad \text{l-aner-á} \\
\text{Kuku-ACC and Ngalo-ACC} \quad \text{CLL.RT-good-ADJ} \\
\end{array}
\]

‘Kuku and Ngalo are nice.’

- Accusative case on the first argument is ungrammatical.

(45)  
**Dependent case assignment in coordination**

4.3 **Raising into dependent case**

(46)  
\[
\begin{array}{c}
\text{[TP (pro) éga \quad [VP \quad [-nn-á \quad [VP Kůku_{DP} \quad ⟨nn⟩_{[V:EPP]} \quad [CP/TP \quad ⟨Kůku⟩ \quad gelágá \quad iki \quad ]]]]}
\end{array}
\]

‘I heard Kuku cultivating in the field.’ (Raising to Object)

- Once moved, the raised DP will receive dependent ACC.
- Languages where nominative is assigned by T should not allow hyperraising
- Carstens and Diercks 2013; Diercks 2012: Bantu lgs with hyperraising lack nominative case

5 **Conclusion**

Summary of main points:

- Moro allows raising-to-subject and raising-to-object out of finite clausees (hyperraising)
- The environments that allow hyperraising are structurally impoverished FinPs
- Moro allows subjects, which lack case, to move into different case positions

The resulting picture doesn’t actually look that different from English:

- Raising is only allowed with infinitives
- Infinitive clauses lack a CP layer and are transparent to extraction (Bošković 1997)
- Infinitive T doesn’t assign nominative case, allowing DPs to move into higher case positions
What about Licensing? Nothing about the Moro system indicates that DPs need (abstract) Case

- We can account for the patterns above by taking morphological case patterns seriously
- Postulating abstract Case on finite subjects would create a problem

→ We’re better off without abstract Case (McFadden 2004; Landau 2006)

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