

Non-agreeing resumptive pronouns and partial Copy Deletion*

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(This is a work in progress, comments are very much welcome!)

1. Introduction

➤ Resumptive pronouns

- Prenominal elements that appear in a position in which syntactic gaps might have occurred (McCloskey 2017)
- Usually agree with the antecedent in *phi*-features

(1) There are guests, **who**_i I am curious about what {***it**_i is/ **they**_i are} going to say.

(adapted from McCloskey 2017:1)

- **Non-agreeing resumptive pronouns (RPs)**¹
 - Object RPs in Cantonese (Hong Kong)
 - Subject RPs in Akan (Asante Twi)
 - In addition to agreeing RPs (which are allowed in other environments)

(2) Non-agreeing resumptive pronoun in Cantonese

Nei jiu zoeng **di syu**_i tai-jyun {_{-i}/ **keoi**_i/ ***keoidei**_i} (object movement)
2SG must DISP CL.PL book read-finish 3SG 3PL

'You must finish reading the books.'

[Cantonese]

(3) Non-agreeing resumptive pronoun in Akan

A-sukuu-foɔ_i **no** tumi {_{-i}/ **ɛr**_i} / ***wɔr**_i} tu ndwom (subject movement)
PL-student-PL DET can 3SG.IN-/ 3PL.AN-sing song

'The students can sing.'

[Akan]

(4) Main claims

- Both **non-agreeing** and **agreeing** RPs are attested in Cantonese and Akan (empirical)
- Non-agreeing RPs involve **movement dependencies**, agreeing RPs do not (analytic)
- Copy Deletion may apply partially** to the lower copy, whose residue is realized as non-agreeing RPs (theoretical)

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¹ Abbreviations: 1, 2, 3 = first, second, third person respectively; ADD = affixal additive quantifier; ALL = affixal universal quantifier; AN/IN = animate/inanimate; DET = determiner; DISP = disposal marker; CD = clausal determiner; CL = classifier; COMP = complementizer; MOD = modifier marker; NEG = negation; PERF = perfective aspect marker; PL = plural; PROG = progressive aspect marker; PST = past tense marker; REL = relative marker; SFP = sentence-final particle; SG = singular; TOP = topic marker.

Roadmap:

- §2: Non-agreeing RPs
- §3: Movement properties
- §4: Proposal: partial Copy Deletion
- §5: Concluding remarks

2. Non-agreeing resumptive pronouns

2.1. *Pronoun inventories*

- Cantonese
 - *Phi*-features: person and number
 - Plural morpheme *-dei*
 - Third person singular: **keoi**

(5) Pronouns in Cantonese

	SG	PL
1	<i>ngo</i>	<i>ngodei</i>
2	<i>nei</i>	<i>neidei</i>
3	<i>keoi</i>	<i>keoidei</i>

- Akan Twi
 - *Phi*-features: person, number, and animacy
 - Third person singular inanimate: **ε-**

(6) Nominative pronouns in Akan

	SG	PL
1	<i>me-</i>	<i>yeŋ-</i>
2	<i>wo-</i>	<i>mo-</i>
3(anim.)	<i>ɔ-</i>	<i>wɔ-</i>
3(inanim.)	<i>ε-</i>	<i>ε-</i>

- Case (not discussed today)
 - Subject pronouns have proclitic forms, while object pronouns have different free-standing forms (e.g. *no* ‘it/(s)he’ for 3SG.AN and 3SG.IN)

2.2. *Resumptive pronouns with featural mismatch*

- Cantonese object RPs (“dummy” pronouns in Cheung 1992, Man 1998, Mai 2003)
 - **Mismatch** in *phi*-features with the antecedents
 - Alternates with gaps in disposal constructions²

² Note that 3SG *keoi* also optionally occurs with post-verbal objects, where no apparent gap is found (=i). However, observe that bare nouns are banned in (i). An indefinite reading of the object CL-N (*cf.* Cheng & Sybesma 1999) is also not available. Moreover, an agreeing pronoun is disallowed. The same restrictions are found in the disposal *zoeng*-constructions with pre-verbal objects, as (ii) shows. We take this as evidence for object movement in cases like (i), where the post-verbal objects move to a *vP*-internal position lower than the verb (=iii), on a par with object shift (Travis 2010). Hence, 3SG *keoi* alternates with a gap in (i).

- Only occur in *object* positions³

(7) Nei jiu zoeng **di syu_i** tai-saa_i { _{-i}/ **keoi_i** } (mismatch in number, cf. *keoidei*)
 2SG must DISP CL.PL book read-ALL 3SG
 ‘You must read all the books.’ [Cantonese]

(8) ⁽²⁾Aaming wui zoeng **ngodei geigo_i** dou saat-saa_i { _{-i}/ **keoi_i** } gaa! (Pers & Num, cf. *ngodei*)
 Ming will DISP 1PL several ALL kill-ALL 3SG SFP
 ‘(Don’t go!) Ming will kill us (lit.: we several people) all!’ [Cantonese]

- Also found in Mandarin (more restricted) and Shanghainese (Xu 1999)⁴

➤ Akan (Asante Twi) subject RPs (Korsah 2016)⁵

- **Mismatch** in *phi*-features with the antecedents
- Alternates with gaps⁶
- Only occur in *subject* positions

(9) **M-mofra no_i** { _{-i}/ **ɛ_i-** } tu ndwom (mismatch in animacy and number, cf. *wɔ*)
 PL-Child DET 3SG.IN- sing song
 ‘The children sing.’ [Akan]

(10) **Yɛn miensa_i** { _{-i}/ **ɛ_i-** } tu-u ndwom (mismatch in person, cf. *yɛn*)
 1PL three 3SG.IN- sing-PST song
 ‘We three sang.’ [Akan]

- Only found in Asante Twi (cf. the Fante dialect of Akan, Korsah 2016)⁷

(i) Nei jiu tai-jyun *(**di syu_i**) (**keoi_i**/ **keoidei*)
 2SG must read-finish CL.PL book 3SG 3PL
 ‘You must finish reading the books / *books / *some books.’

(ii) Nei jiu zoeng *(**di syu_i**) tai-jyun { _{-i}/ **keoi_i**/ **keoidei* }
 2SG must DISP CL.PL book read-finish 3SG 3PL
 ‘You must finish reading the books / *books / *some books.’

(iii) Post-verbal objects: [_{ASPP} Asp-v-V [_{VP} Obj_i [_{VP} ... <Obj>_i≠*keoi*]]

³ Man (1998) notes that non-agreeing object RPs only occur in non-asserted contexts, such as interrogative, imperatives and modal contexts. This might be a preference instead of a restriction, since asserted contexts like (i) also allow non-agreeing RPs:

(i) Houcoi keoi bong ngo gaudim-saa_i **di je_i** **keoi_i** zaa!
 fortunately 3SG help 1SG settle-ALL CL.PL thing 3SG SFP
 ‘Fortunately, he helped me to settle all those things! (Otherwise, I’d be in a mess.)’ [Cantonese]

⁴ Non-agreeing object RPs are more restricted in Mandarin in two ways. First, the antecedents in Cantonese may be animate (=8) or inanimate (=7), while Mandarin only allows inanimate antecedents for non-agreeing RPs. Second, Cantonese non-agreeing RPs may occur in a variety of contexts (see footnote 3), whereas Mandarin non-agreeing RPs can only occur in imperatives.

⁵ See Korsah & Murphy (2019) and Hein & Georgi (2021) for object RPs. They also discuss movement properties of objects RPs, which are not entirely the same with the (non-)agreeing subject RPs to be discussed here.

⁶ Note that Korsah (2016) only discusses non-agreeing RPs in A’-dependencies, where gaps are systematically banned. As will be shown in (9)-(10) and Section 3, gaps are allowed and alternate with non-agreeing RPs in the A-dependencies.

⁷ In Fante Akan, only agreeing RPs are allowed, as shown below.

(ii) [**N-nyipa du pɛ**]_i na {**wɔ_i-** / ***ɔ_i-**} hyia-i. (Korsah 2016:110)
 PL-person ten only FOC 3PL- / DFLT- meet-PST
 ‘Only ten people (as opposed to more people) met.’ [Akan, Fante]

3. Movement properties of non-agreeing resumptive pronouns

3.1. Local and long-distance movement

➤ TP-internal “local” A-movement⁸

- Cantonese: Object movement
 - From the complement of V to the edge of *vP* (cf. object shift, Travis 2010)
 - Non-agreeing RPs: ✓, alternate with gaps
 - Agreeing RPs: ✗, are banned

- (11) Nei jiu [_{VP} tai-jyun [_{VP} t_V di syu]] (baseline)
 2SG must read-finish CL.PL book
 ‘You must finish reading the books.’ [Cantonese]
- (12) Nei jiu [_{VP} zoeng di syu_i tai-jyun [_{VP} t_V {_{-i}/keoi_i/ *keoidei_i }]] (object movement)
 2SG must DISP CL.PL book read-finish 3SG 3PL
 ‘You must finish reading the books.’ [Cantonese]

- Akan: Subject movement
 - From the edge of *vP* to the edge of TP
 - Non-agreeing RPs: ✓, alternate with gaps
 - Agreeing RPs: ✗, are banned

- (13) [_{TP} εnora [_{VP} A-sukuu-foɔ_i no tu-u ndwom]] (baseline)
 yesterday PL-student-PL DET sing-PST song
 ‘The students sang yesterday.’ [Akan]
- (14) [_{TP} A-sukuu-foɔ_i no εnora [_{VP} {_{-i}/ε_i- / *wɔ_i-} tu-u ndwom]] (subject movement)
 PL-student-PL DET yesterday 3SG.IN-/ 3PL.AN- sing-PST song
 ‘The students sang yesterday.’ [Akan]

➤ A-bar movement beyond TP

- Focus movement
 - Cantonese: ✓ gaps, ✓ non-agreeing RPs, ✓ agreeing RPs

- (15) Hai ni di syu_i nei jinggoi faaidi tai-saai {_{-i}/keoi_i/ keoidei_i} (monoclausal)
 FOC this CL.PL book 2SG should faster read-ALL 3SG 3PL
 ‘It is these books that you should read them all ASAP (but not those).’ [Cantonese]
- (16) Hai ni di syu_i ngo gokdak [_{CP} nei jinggoi faaidi tai-saai {_{-i}/keoi_i/ keoidei_i}] (long-dist.)
 FOC this CL.PL book 1SG think 2SG should faster read-ALL 3SG 3PL
 ‘It is these books that I think that you should read them all ASAP (but not those).’ [Cantonese]

- Akan: ✗ gaps, ✓ non-agreeing RPs, ✓ agreeing RPs

⁸ In this talk, we limit to local A-movement only. Cross-clausal A movement for objects (e.g. canonical long passives) is not common in Cantonese, if not unattested. Similarly, Cross-clausal subject raising is also rare in Akan.

(17) **Ama_i** na { *_{-i} / **ε_i-** / **ɔ_i-** } pε sika no (monoclausal)
Ama FOC 3SG.IN 3SG.AN want money CD
'It is Ama who wants the money.' [Akan]

(18) **Ama_i** na Kofi dwene-e [CP sε { *_{-i} / **ε_i-** / **ɔ_i-** } pε sika no] (long-distance)
Ama FOC Kofi think-PST COMP 3SG.IN 3SG.AN want money CD
'It is Ama who Kofi thought that she wants the money.' [Akan]

- Relativization
 - Cantonese: ✓ gaps, ✓ non-agreeing RPs, ✓ agreeing RPs

(19) Go di [CP ngodei jiu zikhak laai-saai { _{-i} / **keoi_i** / **keoidei_i** }] ge **taamgun_i** (mono.)
that CL.PL 1PL must immediately arrest-ALL 3SG 3PL MOD corrupt.official
'Those corrupt officials who we must arrest immediately.' [Cantonese]

(20) Go di [CP Aaming gokdak [CP ngodei jiu laai-saai { _{-i} / **keoi_i** / **keoidei_i** }] ge **taamgun_i** (ld.)
that CL.PL Ming think 1PL must arrest-ALL 3SG 3PL MOD corr.official
'Those corrupt officials who Ming thinks that we must arrest.' [Cantonese]

- Akan: ✗ gaps, ✓ non-agreeing RPs, ✓ agreeing RPs

(21) **M-mofra no_i** [CP aa { *_{-i} / **ε_i-** / **wɔ_i-** } kɔ-ɔ sukuu enora no] (monoclausal)
PL-child DET REL 3SG.IN 3PL.AN go-PST school yesterday CD
'The children who went to school yesterday' [Akan]

(22) **M-mofrai no_i** [CP aa me dwene [CP sε { *_{-i} / **ε_i-** / **wɔ_i-** } kɔ-ɔ sukuu no]] (long-dist.)
PL-child DET REL 1SG think COMP 3SG.IN 3PL.AN go-PST school CD
'The children who I think went to school' [Akan]

- Other A-bar movements not shown here:
 - Wh-movement (only in Akan, not Cantonese)
 - Topicalization/ left-dislocation (Akan only allows agreeing RPs)
 - Right-dislocation (Akan only allows agreeing RPs)

3.2. Movement properties of non-agreeing RPs

➤ Idiom preservation

- Idiom meaning is preserved: ✓ gaps, ✓ non-agreeing RPs, ✗ agreeing RPs

- Only literal meaning for agreeing RPs

- Assuming idioms form a constituent (in a local domain), idiom preservation suggests that the displaced objects/subjects were part of the idioms in an early stage of derivation

→ movement for gaps and non-agreeing RPs, but not agreeing RPs

(23) **Di seoi_i** nei jinggoi ceoi-maai { _{-i} / **keoi_i** / **keoidei_i** } sin (VO idioms)
CL.PL water 2SG should blow-ALSO 3SG 3PL SFP.first
Literal: 'As for those (that) water, you should blow them first.' (gap, keoi, keoidei)
Idiomatic: 'As for those gossips, you should finish them first.' (gap, keoi) [Cantonese]

- (24) **Me** **pɔnkɔ_i** dabiara {_{-i} / **ɛ_i-** / **ɔ_i-**} pɛ ntem (SV idioms)
 POSS horse daily 3SG.IN 3SG.AN want quickly
 Literal: ‘My horse is always eager.’ (gap, ϵ -, \varnothing -)
 Idiomatic: ‘I am always in a hurry.’ (gap, ϵ -) [Akan]

➤ Island sensitivity

- Island sensitivity: ✓ gaps, ✓ non-agreeing RPs, ✗ agreeing RPs
 (Note: Akan gaps are independently banned in A-bar dependencies)
- Agreeing RPs ameliorate island violations
- Configuration: [XP_i ... [_{island} *gap_i / *non-agreeing RP_i / ^{OK}agreeing RP_i] ...]

- (25) **Go di** [_{CP} [_{Adjunct} jyugwo ngodei laai-saai { *_{-i} / **keoi_i** / **keoidei_i** }] (adjunct island)
 that CL.PL if 1PL arrest-PERF 3SG 3PL
 daaigaa zau wui hou hoisam] ge taamgun_i
 everyone then will very happy MOD corrupt.official
 ‘Those corrupt officials_i who if we arrested them_i all everyone will be very happy’ [Cantonese]

- (26) **M-mofra no_i** [_{CP} aa me te-e [_{NP} n-konkansa fa-a wɔn ho (complex NP island)
 PL-child DET REL ISG hear-PST PL-rumor take-PST 3PL.POSS body
 [_{CP} sɛ { *_{-i} / **ɛ_i-** / **wɔ_i-** } fa-a pen no]]]
 COMP 3SG.IN-/3PL.AN- take-PST pen DET
 ‘The children_i who I heard a rumor about them_i that they_i took the pen’ [Akan]

➤ Strong crossover effects (i.e., reconstruction for Binding C)

- Strong crossover: moves across a c-commanding co-referential pronominal elements (i.e. the moved constituent is bound by the pronominal elements)
- SCO effects: ✓ gaps, ✓ non-agreeing RPs, ✗ agreeing RPs
- Agreeing RPs are inert to SCO effects
- Configuration: [XP_i ... [pronoun_i ... [*gap_i / *non-agreeing RP_i / ^{OK}agreeing RP_i] ...]
 □ Note: to avoid Binding B violation for the c-commanding pronouns (by the moved XP), all the examples below involve doubly embedded structure
 → XP and the pronouns are not in a local domain

- (27) **Go di taamgun_i** ne, Aaming tengman [_{CP} **keoidei_i** gokdak (SCO in topicalization)
 that CL.PL corrupt.official TOP Ming hear 3PL think
 [_{CP} daaigaa dou soeng laai-saai { *_{-i} / **keoi_i** / **keoidei_i** }]]
 everyone all want arrest-ALL 3SG 3PL
 ‘As for those corrupt officials_i, Ming heard that they_i think that everyone wants to arrest them_i all.’ [C]

- (28) **Politicians ben_i** na Ama te-e [_{CP} sɛ **wɔ_i** dwene (SCO in *wh*-movement)
 Politicians which FOC Ama hear-PST COMP 3PL think
 [_{CP} sɛ { *_{-i} / **ɛ_i-** / **wɔ_i-** } bɛ di nkonim]]
 COMP 3SG.IN-/3PL.AN- will eat victory
 ‘Which politicians_i did Ama hear that they_i think that they_i will win?’ [Akan]

➤ Weak crossover effects

- Weak crossover: moves across a *non-c-commanding* co-referential pronominal elements
- WCO effects: ✓ gaps, ✓ non-agreeing RPs, ✗ agreeing RPs
- Agreeing RPs lack WCO effects
- Configuration: [XP_i ... [... pronoun_i ...] ... *gap/**non-agreeing RP*/^{OK}agreeing RP_i ...]

(29) **Go di sailou_i** ne, Aaming gokdak [CP [**keoidei_i** aamaa] (WCO in topicalization)
 that CL.PL child TOP Ming think 3PL.POSS mum
 jinggoi gaahou { *_{-i} / ***keoi** / **keoidei_i** }
 should teach.well 3SG 3PL
 ‘As for those kids_i, Ming thinks that their_i mum should teach them_i to behave well.’ [Cantonese]

(30) **Asukuufɔɔ ben_i** na Ama te-e [CP sɛ [**wɔn_i** tikya] dwene (WCO in *wh*-mvt.)
 Student.PL which FOC Ama hear-PST COMP POSS teacher think
 [CP sɛ { *_{-i} / ***ɛ_i** } / **wɔ_i** } be di nkonim]]
 COMP 3SG.IN-/ 3PL.AN-will eat victory
 ‘Which students_i did Ama hear that their_i teacher thinks that they_i will win?’ [Akan]

3.3. *Interim summary*

- Gaps and non-agreeing RPs are allowed in local A-movement, but not agreeing RPs
 - i.e. gaps and non-agreeing RPs may associate with the antecedents *locally*
 - **no Binding B violation** → non-agreeing RPs do not pattern with referential pronouns
- In Akan, gaps are not available in A'-movement

(31) Distribution by movement types

		Gap		Non-agreeing RPs (<i>keoi</i> and <i>ɛ</i> -)	Agreeing RPs
		Cantonese	Akan		
Local A-mvt.		YES	YES	YES	NO
A-bar mvt.	monoclausal	YES	NO	YES	YES
	long-distance	YES	NO	YES	YES

- Gaps and non-agreeing RPs show movement properties, but not agreeing RPs

(32) Movement properties

	Gap		Non-agreeing RPs (<i>keoi</i> and <i>ɛ</i> -)	Agreeing RPs
	Cantonese	Akan		
Idiom preservation	YES	YES	YES	NO
Island sensitivity	YES	—	YES	NO
Strong crossover effects	YES	—	YES	NO
Weak crossover effects	YES	—	YES	NO

4. Proposal: partial Copy Deletion

4.1. Theoretical background

- Copy Theory of Movement (Chomsky 1995, Nunes 1995, Nunes 2004, Bošković & Nunes 2007)
 - Movement creates copies
 - XP ... <XP>
 - **Copy Deletion** applies to the lower copy in typical cases, deleting all the features
- Distributed Morphology (Halle & Marantz 1993 *et seq.*)
 - Functional elements only have SynSem features in syntax (i.e. no phonological content)
 - Get phonological content through **Vocabulary Insertion** *post-syntactically* (i.e. in the PF)
 - Recap: pronouns in Cantonese and Akan

(33) Pronouns in Cantonese

	SG	PL
1	<i>ngo</i>	<i>ngodei</i>
2	<i>nei</i>	<i>neidei</i>
3	<i>keoi</i>	<i>keoidei</i>

(34) Nominative pronouns in Akan

	SG	PL
1	<i>me-</i>	<i>yε-</i>
2	<i>wo-</i>	<i>mo-</i>
3(anim.)	<i>ɔ-</i>	<i>wɔ-</i>
3(inanim.)	<i>ε-</i>	<i>ε-</i>

- Featural compositions of the pronouns
 - The most unmarked (default) pronouns: 3SG ***keoi*** and 3SG.IN ***ε-***

(35) Vocabulary Items of Cantonese pronouns

[D, +author]	↔	<i>ngo</i>
[D, +addressee]	↔	<i>nei</i>
[D, +pl]	↔	<i>dei</i>
[D]	↔	<i>keoi</i>

(36) Vocabulary Items of Akan pronouns

[D, +animate, +pl]	↔	<i>wɔ-</i>
[D, +author, +pl]	↔	<i>yε-</i>
[D, +addressee, +pl]	↔	<i>mo</i>
[D, +animate]	↔	<i>ɔ-</i>
[D, +author]	↔	<i>me-</i>
[D, +addressee]	↔	<i>wo--</i>
[D]	↔	<i>ε-</i>

4.2. Non-agreeing RPs as a result of partial Copy Deletion

➤ Key components:

- Copy Deletion may apply *partially*, deleting all the features on the lower copy *except the label*
 - If the lower copy is a DP, delete everything except the label [D]
 - Cf. various proposals of distributed/scattered deletion (e.g. left branch extraction, as in Bošković 2001, 2015; Fanselow & Ćava 2002; and predicate fronting, as in Bentzen 2008, Larson 2020, van Urk 2021)
- The remaining [D] realizes as a default pronoun in the PF by Vocabulary Insertion
 - [D] ↔ *default pronoun*
- We will discuss the potential motivation for partial CD in concluding remarks

(37) Partial and Full Copy Deletion

Syntax: $\alpha_{[D],[\phi],...} \dots \beta_{[D],[\phi],...}$; where (α, β) is a chain created by movement

CD: (i) *Full* $\alpha_{[D],[\phi],...} \dots \beta_{[D],[\phi],...} \rightarrow$ surface string = α

(ii) *Partial* $\alpha_{[D],[\phi],...} \dots \beta_{[D],[\phi],...} \rightarrow$ surface string = $\alpha \dots$ exponent of D (=default pronoun)

➤ Implementation

(38) Nei jiu zoeng **di** **syu_i** tai-saai **keoi_i** (= (7))
 2SG must DISP CL.PL book read-ALL 3SG

‘You must read all the books.’

[Cantonese]

(39) The derivation of Cantonese non-agreeing RP keoi in (38)

a. Baseline (in syntax) [_{VP} zoeng ν -V [_{VP} di syu_[D,+pl,n,√BOOK]]]

b. Object movement (in syntax) [_{VP} zoeng di syu_[D,+pl,n,√BOOK] ν -V [_{VP} <di syu_[D,+pl,n,√BOOK]>]]

c. Partial Copy Deletion (in PF) [_{VP} zoeng di syu_[D,+pl,n,√BOOK] ν -V [_{VP} <di syu_[D,+pl,n,√BOOK]>]]

d. Vocabulary Insertion (in PF) [_{VP} zoeng di syu_[D,+pl,n,√BOOK] ν -V [_{VP} <keoi_[D]>]]

(40) mmofra no_i **ε_i**-tu ndwom (= (9))

Children DET 3SG.IN-sing song

‘The children sing.’

[Akan]

(41) The derivation of Akan non-agreeing RP ε- in (40)

a. Baseline (in syntax) [TP T [_{VP} mmofra no_[D,+pl,+anim,n,√CHILD] ...]]

b. Subj. mvt. (in syntax) [TP mmofra no_[D,+pl,+anim,n,√CHILD] T [_{VP} <mmofra no_[D,+pl,+anim,n,√CHILD]> ...]]

c. Partial CD (in PF) [TP mmofra no_[D,+pl,+anim,n,√CHILD] T [_{VP} <mmofra no_[D,+pl,+anim,n,√CHILD]> ...]]

d. VI (in PF) [TP mmofra no_[D,+pl,+anim,n,√CHILD] T [_{VP} <ε_[D]> ...]]

➤ Deriving the properties of non-agreeing RPs

• **Featural mismatch**

- Only the label [D] survives Copy Deletion, and all the phi-features are deleted
- Hence the form is always the *default pronoun* – but not the agreeing pronouns, or any other pronouns with phi-features

• **Movement properties**

- Non-agreeing RPs are the realization of the “trace”, i.e. the lower copy of movement chains

• **Local A-movement: no Binding B violation**

- Non-agreeing RPs are not genuine pronouns w/ anaphoric dependency with the antecedent
 - They are not subject to the Binding Principle
 - They can occur with the antecedent in a local binding domain, i.e. local A-movement

➤ For similar proposals, See Scott (2021) for Swahili and Georgi & Amaechi (2021) for Igbo

4.3. *Agreeing RPs as base-generated pronouns*

➤ Another type of resumption: Agreeing RPs

- We suggest that they are **base-generated pronouns**
- When they occur, the antecedents are also base-generated at the surface position
- **Anaphoric relation** between the agreeing RPs and the antecedents

(42) Agreeing RPs as base-generated pronouns

Syntax: [antecedent_{[D],[φ]} ... [... **[D]**,[φ] ...]] (base-generation)
 PF: [antecedent_{[D],[φ]} ... [... *agreeing RPs* ...]] (Vocabulary Insertion)

➤ Deriving the properties of agreeing RPs

• **Featural matching**

- Born with *phi*-features which are not subject to Copy Deletion
- Featural matching is a general requirement by pronominal dependencies, which holds cross-sententially:

(43) **Di hoksaang_i** mei dou. M-dang {**keoidei_i** / ***keoi_i**} laa.
 CL.PL student NEG arrive NEG-wait 3PL 3SG SFP.
 ‘The students_i haven’t arrived yet. (I) won’t wait for them_i.’ [Cantonese]

(44) Me hu-u **n-kwaala no_i** enora. Na **wɔ_i** di agoro.
 ISG see-PST PL-child DET yesterday PST 3PL eat game
 ‘I saw the children yesterday. They_i were playing.’ [Akan]

• **Lack of movement properties**

- The surface position of the antecedents results from base-generation, but not movement from the (agreeing-)RP position

• **Banned in local A-movement: Binding B violation**

- The agreeing RPs are bound by the antecedent in their binding domain

(45) *_{[TP} Nei jiu [_{VP} zoeng **di syu_i** tai-jyun [_{VP} t_V **keoidei_i**]]] (= (12), Binding domain: TP)
 2SG must DISP CL.PL book read-finish 3PL
 Int.: ‘You must finish reading the books.’ [Cantonese]

(46) *_{[TP} **A-sukuu-fo_i** **no** enora [_{VP} **wɔ_i-tu-u** ndwom]] (= (14), Binding domain: TP)
 PL-student-PL DET yesterday 3PL.AN- sing-PST song
 Int.: ‘The students sang yesterday.’ [Akan]

- In A'-dependencies, the antecedents are outside the binding domain TP (i.e. Spec,CP) and are able to bind the pronouns without violating Binding B (cf. Bošković 2016: the phasal edge belongs to the higher binding domain)
 → agreeing RPs are allowed in A'-dependencies

5. Concluding remarks

- Two types of resumption
 - The dual nature of resumptive pronouns and cross-linguistic variations (Rouveret 2011)
 - Some behave like **traces**, e.g. Vata (Koopman 1983)
 - Some behave like **pronouns**, e.g. Irish (McCloskey 1990)
 - Some in-between, e.g. Swedish (Engdahl 1985)
 - **Both types** are attested in Cantonese and Akan
 - Manifested as different morphological forms
 - Cf. Strong-weak distinction in Welsh (Tallermam 1983) and Hausa (Tuller 1986)

(47) Two types of resumption in Cantonese and Akan

	Generation	Features	Relation with the antecedent
Non-agreeing RPs	Partial Copy Deletion	[D]	Movement dependency
Agreeing RPs	Base-generation	[D] + [phi]	Pronominal dependency

- Partial Copy Deletion
 - The growing literature of varieties of CD, among which CD may be:
 - distributed/scattered (Bošković 2001, 2015; Fanselow & Ćavar. 2002; Pereltsvaig 2008, Fanselow & Féry 2013; among many others);
 - suspended (e.g. Trinh 2009, Lee 2021); and
 - substituted (Mendes & Ranero 2021)
 - Distributed/scattered deletion is essentially partial CD on both higher and lower copies
 - Non-agreeing RPs as partial CD on the lower copy
- Remaining issues and further steps
 - Interpretive properties
 - E.g. reconstruction for scope, specificity effects, quantifier binding, etc.
 - The (non-)alternation of non-agreeing RPs and gaps
 - Akan: gaps are systematically banned in A-bar movement
 - Cantonese: gaps are degraded in if the antecedent is “too far away”

(48) Ngo daaseon ni wan zoeng **ni gin si_i** (10 σ between the gap & antecedent)
 ISG plan this time DISP this CL matter
cungtaudoumei saamhaulukmin baaiming ??(**keoi**)
 thoroughly clearly settle.down 3SG
 ‘This time, I plan to settle down this issue thoroughly and clearly.’ [Cantonese, Mai 2003: 521]

- Motivations for partial Copy Deletion? (i.e. last resort)
- How about optional cases?
- Restricting the partiality of Copy Deletion
 - How many features to delete? Why labels are special?
 - Feature hierarchy?

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