

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

➤ The Copy Theory of Movement

- Movement creates *copies* rather traces (*cf.* Inclusiveness Condition)
- Both LF and PF interfaces may choose which copy to spell-out/interpret (see, e.g. Chomsky 1993; Nunes 1995, Nunes 2004, Bošković & Nunes 2007)
- *Partial* realizations of *both* copies (Bošković 2001, 2007, 2015; Fanselow & Ćavar. 2002; Pereltsvaig 2008, Fanselow & Féry 2013; among many others)

➤ Resumptive pronouns

- Pronominal 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 am curious about what {***it**; is/ **they**; are} going to say.

(adapted from McCloskey 2017:1)

- **Non-agreeing resumptive pronouns** (RPs)¹

- Recently attracts much interest on how it sheds light on *partial* realization of the *lower/intermediate copies* (van Urk 2018, Scott 2021, Georgi & Amaechi 2021)

(2) { **m/** **gí/** **yá/** **ànyí/** **únù/** **há** } ká Ézé kwè-rè nà **yá**
1SG.ACC 2SG.ACC 3SG.ACC 1PL.ACC 2PL.ACC 3PL.ACC FOC Eze believe-rV in 3SG.ACC
'Eze believes in me/you(sg)/him~her/us/you(pl)/them.' (Igbo, Georgi & Amaechi 2021:23)

(3) **Wewe** ndi-ye amba-ye Hadija a-li-kutana na-we/ye
2SG COP-1 AMBA-1 Hadija 1-PST-meet with-2SG/1
'It's you who Hadija met with.' (Swahili, Scott 2021:823; *ye* = 3SG pronoun)

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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.

- **Non-agreeing RPs in two typologically unrelated languages**
 - *Object* RPs in **Cantonese (Hong Kong)**
 - *Subject* RPs in **Akan (Asante Twi)**
 - In addition to agreeing RPs (which are allowed in other environments)

(4) Non-agreeing resumptive pronoun in Cantonese

Nei jiu zoeng **di syu**_i tai-jyun {_{-i}/**keoi** / ***keoidei**_i} (object movement)
 2SG must DISP CL.PL book read-finish 3SG 3PL
 ‘You must finish reading the books.’ [Cantonese]

(5) Non-agreeing resumptive pronoun in Akan

A-sukuu-foɔ_i **no** tumi {_{-i}/**ε**_i / ***wɔ**_i} tu ndwom (subject movement)
 PL-student-PL DET can 3SG.IN/ 3PL.AN sing song
 ‘The students can sing.’ [Akan]

(6) 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 on the **featural level**, where the residue feature is realized as non-agreeing RPs (theoretical)

Roadmap:

§2: Non-agreeing RPs

§4: Proposal: partial Copy Deletion

§3: Movement properties

§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**

(7) 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
- Case: nominative vs. accusative (e.g. *no* ‘it/(s)he’ for 3SG.AN and 3SG.IN)
- (Nominative) third person singular inanimate: **ε**

(8) Nominative pronouns in Akan²

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

² While the notation in the literature often treats nominative pronouns like proclitics (e.g. *ɔ=* in Campbell 1998 or *ɔ-* in Korsah 2016), they do not necessarily cliticize onto the verb. We thus represent them without clitic notations.

(i) *ɔ tumi/tae tu ndwom*
 3SG.AN can often sing song
 ‘S/he can/often sing(s).’ [Akan]

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 constructions
- Only occur in *object* positions

(9) 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]

(10) ⁽⁹⁾Aamingwui 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)³

➤ Akan (Asante Twi) subject RPs (Korsah 2016)⁴

- **Mismatch** in *phi*-features with the antecedents
- Alternates with gaps⁵
- Only occur in *subject* positions

(11) **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]

(12) **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)⁶

3. Movement properties of non-agreeing resumptive pronouns

3.1. Local and long-distance movement

➤ TP-internal “local” A-movement⁷

³ Non-agreeing object RPs are more restricted in Mandarin in two ways. First, the antecedents in Cantonese may be animate (= (10)) or inanimate (= (9)), while Mandarin only allows inanimate antecedents for non-agreeing RPs. Second, Cantonese non-agreeing RPs may occur in a variety of contexts (see footnote **Error! Bookmark not defined.**), whereas Mandarin non-agreeing RPs can only occur in imperatives.

⁴ 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.

⁵ Note that Korsah (2016) only discusses non-agreeing RPs in A'-dependencies, where gaps are systematically banned. As will be shown in (11)-(12) and Section 3, gaps are allowed and alternate with non-agreeing RPs in the A-dependencies.

⁶ 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]

⁷ In this talk, we limit ourselves 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.

- 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

(13) 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]

(14) 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

(15) [_{TP} enora [_{VP} **A-sukuu-foɔ**_i **no** tu-u ndwom]] (baseline)
 yesterday PL-student-PL DET sing-PST song
 ‘The students sang yesterday.’ [Akan]

(16) [_{TP} **A-sukuu-foɔ**_i **no** enora [_{VP} {_{-i}/ **ɛ**_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

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

(17) 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]

(18) 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

(19) **M-mofra no**_i [_{CP} aa {_{-i}/ **ɛ**_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]

(20) **M-mofrai no**_i [_{CP} aa me dwene [_{CP} se {_{-i}/ **ɛ**_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]

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

(21) 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]

(22) 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

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

(24) **Ama_i** na Kofi dwene-e [_{CP} sɛ { *_{-i} / **ε_i** / **ɔ_i** } pɛ 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]

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

(25) **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]

(26) **Me pɔnkɔ_i** dabiara { _{-i} / **ε_i** / **ɔ_i** } pɛ ntem (SV idioms)
 POSS horse daily 3SG.IN 3SG.AN want quickly
 Literal: ‘My horse is always eager.’ (gap, ε-, ɔ-)
 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] ...]

(27) 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]

(28) **M-mofra no_i** [CP aa me te-e [_{NP} n-konkansa fa-a wɔn ho (complex NP island)
 PL-child DET REL 1SG hear-PST PL-rumor take-PST 3PL.POSS body

[CP se { *_{-i} / *ε_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

(29) 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]

(30) **Politicians ben_i** na Ama te-e [CP se wɔ_i dwene (SCO in *wh*-movement)
 Politicians which FOC Ama hear-PST COMP 3PL think

[CP se { *_{-i} / *ε_i / wɔ_i } be 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_i/*non-agreeing RP_i/^{OK}agreeing RP_i ...]

(31) **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]

(32) **Asukuufɔ 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 } 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

(33) 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
	long-distance	YES	NO	YES

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

(34) 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

(35) 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>

(36) Nominative pronouns in Akan

	SG	PL
1	<i>me</i>	<i>ɣɛn</i>
2	<i>wo</i>	<i>mo</i>
3(anim.)	<i>ɔ</i>	<i>wɔ</i>
3(inanim.)	<i>ɛ</i>	<i>ɛ</i>

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

(37) Vocabulary Items of Cantonese pronouns

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

(38) Vocabulary Items of Akan pronouns

[D, +animate, +pl]	↔	<i>wɔ</i>
[D, +author, +pl]	↔	<i>ɣɛn</i>
[D, +addressee, +pl]	↔	<i>mo</i>
[D, +animate]	↔	<i>ɔ</i>
[D, +author]	↔	<i>me</i>
[D, +addressee]	↔	<i>wo</i>
[D]	↔	<i>ɛ</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

(39) 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* $\alpha_{[D],[\phi],...} \dots \beta_{[D],[\phi],...}$ → surface string = α

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

➤ Implementation

(40) Nei jiu zoeng di syu_i tai-saai keoi_i (=9)
 2SG must DISP CL.PL book read-ALL 3SG

‘You must read all the books.’

[Cantonese]

(41) The derivation of Cantonese non-agreeing RP keoi in (40)

- | | | | | |
|--------------------------|-------------|--|----------|--|
| a. Baseline | (in syntax) | $[_{VP} zoeng$ | ν -V | $[_{VP} di syu_{[D,+pl,n,\sqrt{BOOK}]}]]$ |
| b. Object movement | (in syntax) | $[_{VP} zoeng di syu_{[D,+pl,n,\sqrt{BOOK}]}]$ | ν -V | $[_{VP} <di syu_{[D,+pl,n,\sqrt{BOOK}]}>]]$ |
| c. Partial Copy Deletion | (in PF) | $[_{VP} zoeng di syu_{[D,+pl,n,\sqrt{BOOK}]}]$ | ν -V | $[_{VP} <di syu_{[D,+pl,n,\sqrt{BOOK}]}>]]$ |
| d. Vocabulary Insertion | (in PF) | $[_{VP} zoeng di syu_{[D,+pl,n,\sqrt{BOOK}]}]$ | ν -V | $[_{VP} <keoi_{[D]}>]]$ |

(42) mmofra no_i ε_i-tu ndwom (=11)

Children DET 3SG.IN-sing song

‘The children sing.’

[Akan]

(43) The derivation of Akan non-agreeing RP ε- in (42)

- | | | | | |
|---------------|-------------|--|---|--|
| a. Baseline | (in syntax) | $[_{TP}$ | T | $[_{VP} mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]} \dots]]$ |
| b. Subj. mvt. | (in syntax) | $[_{TP} mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]}]$ | T | $[_{VP} <mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]}> \dots]]$ |
| c. Partial CD | (in PF) | $[_{TP} mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]}]$ | T | $[_{VP} <mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]}> \dots]]$ |
| d. VI | (in PF) | $[_{TP} mmofra no_{[D,+pl,+anim,n,\sqrt{CHILD}]}]$ | T | $[_{VP} <\epsilon_{[D]}> \dots]]$ |

➤ 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 Condition 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

➤ Similar proposals have been adopted to derive **non-agreeing** resumptive pronouns in Igbo (Georgi & Amaechi 2021) and Swahili (Scott 2021)

4.3. *The role of [D] in A-movement and why it's special*

➤ [D] plays a crucial role in A-movement in both languages

- No *phi*-inflection on verbs in Cantonese and Akan
 - [D] is subject to Agree for movement, not *phi*-features

- Object movement in Cantonese (see more in Appendix)
 - Restriction on the *interpretation*: **indefinite** reading is not available
 → Li (1998): indefinite NPs in Chinese lacks a D head (i.e. *[Num [Cl [N]]])
 - Restriction on the *internal structure*: **bare nouns** are banned (i.e. *[_{NP} N])
 - Consistent with the cross-linguistic facts that *vP*-internal object movement/ object shift is sensitive to definiteness, e.g. Yiddish, Icelandic, among many others (Travis 2010, Diesing 1992, 1997, Collins & Thráinsson 1996, Svenonius 2000)

□ **The presence of a (covert) D-head licenses object movement in Cantonese**

(44) Definite objects and quantifiers

- a. Nei heoi zoeng {**Aaming/ go hoksaang_{det}/ ni go hoksaang**} daawan keoi laa
 2SG go DISP Ming CL student this CL student stun 3SG SFP
 ‘You go knock {Ming/ the student/ this student} down.’
- b. Nei heoi zoeng [**mui jat bun syu**] tai-saai keoi
 2SG go DISP every one CL book read-all 3SG
 ‘You go read every book.’

(45) Indefinite objects, bare nouns, epistemic indefinites

*Nei heoi zoeng { **hoksaang/ saam go hoksaang/ mzi bing** } daawan keoi laa
 2SG go DISP student three CL student MZI who stun 3SG SFP
 Int.: ‘You go knock {students/ three students /some unknown person} down.’

- Subject movement in Akan
 - A determiner/nominalizer is obligatory for non-DPs to be subjects⁸
 - Clausal determiner *no* (same form with the nominal determiner)

(46) CP subjects with the clausal determiner

[[_{CP} S_ε ɔ tumi tu ndwom] *(**no**)] ε yε adi pa
 COMP 3SG.AN can sing song CD 3SG.IN be thing good
 ‘That s/he can sing is good.’

- With conjoined CPs, *no* seems to be optional
- However, a topic reading is obligatory when *no* is **absent**, whereas a non-topic subject reading can be obtained with *no*
 → *no* is still needed for subjecthood

□ **Potential role of [D] in licensing subject movement**

⁸ For nominalizers, see the adjective phrase below:

(i) *(ɔ)-kese no ε tu ndwom
 NMZL-big DET 3SG.IN sing song ‘The big person sings’

(47) Conjoined CPs

[[_{CP} Sε ɔ tumi tu ndwom] ne [_{CP} sε ɔ tumi nanti kə parki no so]] (**no**),
 COMP 3SG.AN can sing song and COMP 3SG.AN can walk go park DET LOC CD
 ε yε adi pa
 3SG.IN be thing good

With **no**: ‘That s/he can sing and that s/he can go to the park are good.’

Without **no**: ‘As for the facts that s/he can sing and s/he can go to the park, they are good.’

- **Speculation**: [D] survives since it is *the feature that Probe searches for* (but not *phi*-features)
 - If [D] enters into Agree relation with some A-Probe (that triggers subject/object movement), ...
 - The [D] feature is checked on the higher copy, but not on the lower copy
 - [D:+] ... [D:_]: distinct features?
- **Prediction**: **A-bar** movement with non-agreeing RPs require a **prerequisite A-movement**
 - Seems to receive some support from Cantonese: the bare noun restriction holds

(48) Bare noun contrastive topics

a. Siuseot ne, Aaming jinggoi tai _ , maanwaa zau m-hou laa
 novel TOP Ming should read comics then not-good SFP
 ‘As for novels, Ming should read (them); but not comics.’

b. *Siuseot ne, Aaming jinggoi tai-zo **keoi** , maanwaa zau m-hou laa
 novel TOP Ming should read-PERF 3SG comics then not-good SFP

(49) A-bar movement follows A-movement

[_{Topic} <Obj>_i ... [_{VP} <Obj>_i [_{VP} V <Obj>_i=**keoi**]]] (intermediate copy not pronounced)

\uparrow **A'** | \uparrow **A** |

4.4. 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

(50) 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:

(51) **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]

(52) Me hu-u **n-kwaala no_i** εnora. Na **wɔ_i** di agoro.
 1SG 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

(53) *_{[TP} Nei jiu [_{VP} zoeng **di syu_i** tai-jyun [_{VP} t_V **keoidei_i**]]] (= (14), Binding domain: TP)
 2SG must DISP CL.PL book read-finish 3PL
 Int.: ‘You must finish reading the books.’ [Cantonese]

(54) *_{[TP} **A-sukuu-fo_i no** εnora [_{VP} **wɔ_i** tu-u ndwom]] (= (16), 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)

(55) [_{TopicP/CP} Aaming_j ne [_{TP} ngo gokdak [_{VP} *(**keoi_j**) hou zang **keoizigei_j]]]]
 Ming TOP 1SG think 3SG very hate 3SG.REFL
 ‘As for Ming_j, I think (he_j) hates himself_j.’ [Cantonese]**

(56) [_{FocP/CP} John_j (**ankasa_j**) na [_{TP} (***ankasa_j**) [_{VP} ε tu-u ndwom no]]]
 John REFL FOC REFL 3SG.in sing-PST song DET
 ‘It is John_j himself_j who sang the song.’ [Akan]

- Highest subject restrictions do not apply
- agreeing RPs are allowed in mono-clausal A'-dependencies

- **Lack of movement properties**

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

➤ Predictions in ATB-movement⁹

- ATB-movement: both dependencies must be the same (i.e. **movement**)

⁹ We thank Martin Salzmann for drawing our attention to ATB-movement. Note that the patterns here are different from Zurich German, where gaps and base-generated resumptives can be “mixed” in ATB-movement (Salzmann 2012).

(57) Non-agreeing RPs are predicted to alternate with gaps (in both word orders)

- a. Antecedent ... [... **non-agreeing** ...] & [... **gap** ...]
- b. Antecedent ... [... **non-agreeing** ...] & [... **non-agreeing** ...]

- With agreeing RPs: Mixed *base-generation* and *movement* dependencies fail to license ATB-mvt

(58) Agreeing RPs are predicted to contrast with both gaps and non-agreeing RPs (in both word orders)

- a. *Antecedent ... [... **agreeing** ...] & [... **gap** ...]
- b. *Antecedent ... [... **agreeing** ...] & [... **non-agreeing** ...]
- c. Antecedent ... [... **agreeing** ...] & [... **agreeing** ...]

(59) Cantonese

- a. *Antecedent ... [... non-agreeing ...] & [... non-agreeing ...]*
 Godi [ngo gokdak [Aaming seong zikhak laai-saai **keoi_k**] ji
 those I think Ming want immediately arrest-all 3SG and
 [Aafan m-seong zikhak laai-saai **keoi_k**]] ge **taamgun_k**
 Fan not-want immediately arrest-all 3SG MOD corrupt.officials
 'Those corrupt officials [who I think [Ming wants to arrest them all immediately] and [Fan doesn't
 want to arrest them all immediately]]'
- b. *Antecedent ... [... non-agreeing ...] & [... gap ...]*
 Godi [ngo gokdak [Aaming seong zikhak laai-saai **_k**] ji
 [Aafan m-seong zikhak laai-saai **keoi_k**]] ge **taamgun_k**
- c. **Antecedent ... [... agreeing ...] & [... gap ...]*
 *Godi [ngo gokdak [Aaming seong zikhak laai-saai **keoidei_k**] ji
 [Aafan m-seong zikhak laai-saai **_k**]] ge **taamgun_k**
- d. ??*Antecedent ... [... agreeing ...] & [... non-agreeing ...]*
 ??Godi [ngo gokdak [Aaming seong zikhak laai-saai **keoidei_k**] ji
 [Aafan m-seong zikhak laai-saai **keoi_k**]] ge **taamgun_k**
- e. *Antecedent ... [... agreeing ...] & [... agreeing ...]*
 Godi [ngo gokdak [Aaming seong zikhak laai-saai **keoidei_k**] ji [Aafan m-seong zikhak laai-saai
keoidei_k] ge **taamgun_k**

(60) Akan

- a. *Antecedent ... [... non-agreeing ...] & [... non-agreeing ...]*
A-sukuufɔɔ no_k aa me dwene sɛ [ɛ_k kɔ-ɔ school] na
 PL-student.PL DET REL 1SG think COMPL 3SG go-PST school and
 [ɛ_k bɛ ba ahyia no]
 3SG FUT come afternoon DET
 'The children who I think [went to school] and [will be back in the afternoon].'
- b. **Antecedent ... [... agreeing ...] & [... non-agreeing ...]*
A-sukuufɔɔ no_k aa me dwene sɛ [wɔ_k kɔ-ɔ school] na
 [ɛ_k bɛ ba ahyia no]
- c. *Antecedent ... [... agreeing ...] & [... agreeing ...]*
A-sukuufɔɔ no_k aa me dwene sɛ [wɔ_k kɔ-ɔ school] na
 [wɔ_k bɛ ba ahyia no]

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. two types of RPs in Igbo (Georgi & Amaechi 2021) & Swahili (Scott 2021)
 - Cf. *Strong-weak* distinction in Welsh (Tallermam 1983) and Hausa (Tuller 1986)

(61) 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
- Restricting partial CD: Potential role of the [D] feature in A-movement
- Remaining issues and further steps
 - 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”

(62) Ngo daaseon ni wan zoeng **ni gin si** (10 σ between the gap & antecedent)

1SG plan this time DISP this CL matter

cungtaudoumei saamhaulukmin baaiming ^{??}(keoi_i)

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?

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Appendix: Post-verbal objects in Cantonese with non-agreeing resumptive pronouns

➤ 3SG *keoi* also optionally occurs with post-verbal objects, where no apparent gap is found (=55)

(63) Pre-verbal objects with gaps

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

(64) Post-verbal objects with no apparent gaps

Nei jiu tai-jyun **di** syu_i {_{-i}/ **keoi**_i/ ***keoidei**_i }
 2SG must read-finish CL.PL book 3SG 3PL
 ‘You must finish reading the books.’

➤ Analysis: they undergo *the same object movement*, with differences in *whether verb moves*

(65) Pre-verbal objects (e.g. zoeng-disposal constructions)

[_{VP} zoeng Obj_i [_{VP} V <Obj>_{i=keoi}]] (Object movement)

(66) Post-verbal objects

[V ... [_{VP} Obj_i [_{VP} <V> <Obj>_{i=keoi}]]] (Object movement + Verb movement)

➤ Arguments: similar restrictions with regard to: (i) Objects; (ii) Argument structure; (iii) Aspect

(67) Similarities between zoeng-disposal constructions and post-verbal object cases

Restrictions	Zoeng	Post-verbal object cases
Objects	Definite/ quantifier	Definite/ quantifier
Argument structure	Transitive	Transitive
Aspect	Telic	Telic

➤ **Objects:** sensitive to the interpretation and the internal structure

- ✓ Definite objects, quantifier phrases
- ✗ Indefinite objects, bare nouns, epistemic indefinites *m-zi-wh* ‘not-know wh’ (Lee 2021)
- An object CL-N, ambiguous between a definite and an indefinite reading (Cheng & Sybesma 1999), is disambiguated as definite

(68) Definite objects

a. *Post-verbal O*

Nei heoi daawan {**Aaming/ go hoksaang**_{def/ ni go hoksaang}} **keoi** laa
 2SG go stun Ming CL student this CL student 3SG SFP
 ‘You go knock {Ming/ the student/ this student} down.’

b. *Pre-verbal O with zoeng*

Nei heoi zoeng {**Aaming/ go hoksaang**_{def/ ni go hoksaang}} daawan **keoi** laa
 2SG go DISP Ming CL student this CL student stun 3SG SFP
 ‘You go knock {Ming/ the student/ this student} down.’

(69) Quantifier phrases

a. *Post-verbal O*

Nei heoi tai-saai [mui jat bun syu] keoi
 2SG go read-all every one CL book 3SG
 'You go read every book.'

b. *Pre-verbal O with zoeng*

Nei heoi zoeng [mui jat bun syu] tai-saai keoi
 2SG go DISP every one CL book read-all 3SG
 'You go read every book.'

(70) Indefinite objects, bare nouns, epistemic indefinites

a. *Post-verbal O*

*Nei heoi daawan {hoksaang/ saam go hoksaang/ mzi bingo} keoi laa
 2SG go stun student three CL student MZI who 3SG SFP
 Int.: 'You go knock {students/ three students / some unknown person} down.'

b. *Pre-verbal O with zoeng*

*Nei heoi zoeng {hoksaang/ saam go hoksaang/ mzi bingo} daawan keoi laa
 2SG go DISP student three CL student MZI who stun 3SG SFP
 Int.: 'You go knock {students/ three students /some unknown person} down.'

➤ **Argument structure:** Verbs must be able to take an object

- ✓ Transitive verbs (e.g. *dawaa* 'stun' above); and "transitive" uses of unergative verbs

(71) Unergative verb

a. ??Paau-zo keoi!
 run-PERF 3SG
 Int: 'Run!'

b. *Nei dou siu-maai keoi!
 2SG DOU laugh-ADD 3SG
 Int: 'you laugh (just like the others)!'

(72) Transitive use of unergative verb

a. Paau-maai {go maalaicung/ ni loeng bou} keoi! (post-verbal O)
 run-ADD CL marathon this two step 3SG
 'Go finish the marathon/ these two steps!'

b. Zoeng {go maalaicung/ ni loeng bou} paau-maai keoi! (pre-verbal O with zoeng)
 DISP CL marathon this two step run-ADD 3SG
 'Go finish the marathon/ these two steps!'

- ✗ Unaccusative verbs

(73) Unaccusative verb

a. *Aaming lai-zo keoi
 Ming come-PERF 3SG
 Int.: 'Ming should come.'

b. *Sei-zo Aaming keoi
 die-PERF Ming 3SG
 Int.: 'Ming should go die.'

- **Aspect:** The event must be telic, i.e. bounded (Man 1998)
- ✓ Perfective/ resultative verbs (VR)
 - ✗ Imperfective/ bare verbs

(74) Telic events (e.g. VR-compound, “Achievement”)

- a. **Silaan** ni bun syu **keoi**! (post-verbal O)
rip.off this CL book 3SG
‘Rip this book off!’
- b. Zoeng [ni bun syu] **silaan keoi**! (pre-verbal O with *zoeng*)
DISP this CL book rip.off 3SG
‘Rip this book off!’

(75) Atelic events (e.g. bare verb, “Activity”)

- a. Tai ni bun syu **(*keoi)**! (post-verbal O)
read this CL book 3SG
Int.: ‘Read this book!’
- b. *Zoeng [ni bun syu] tai **(keoi)**! (pre-verbal O with *zoeng*)
DISP this CL book read 3SG
Int.: ‘Read this book!’

- A note on non-asserted contexts:

- Man (1998): *keoi* as a marker for non-asserted bounded clauses¹⁰
- While aspectual boundedness (=telicity) is strictly required, *non-assertedness* does not seem so.
- A preference instead of a restriction

(76) Aafai tai-zo bun syu (***keoi**) (Man 1998:54)
Fai read-PERF CL book 3SG
‘A-fai has read that book.’

(77) Houcoi keoi bong ngo gaaudim-saai **di je** **keoi** 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.)’

- Cf. Mandarin: highly preferred in imperatives and degraded in other contexts (Kiki Liu p.c.)

¹⁰ Man (1998) original generalization is that “the minimal clause containing *keoi* cannot be asserted”. Strictly speaking, the generalization is true for **Error! Reference source not found.** if a “minimal clause” does not contain any SFPs and adverbials.