

Multi-categorical multiple right dislocation in Chinese

A cross-framework study

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Right dislocation (RD) is a crosslinguistically common pattern in the colloquial register.

- (1) a. He_i's really smart, John_i (is). (English, Kayne 1994)
- b. Il_i a mangé la soupe, Jean_i.
he has eaten the soup Jean (French, Lambrecht 1981)
- c. Lo_i porto domani, [il dolce]_i.
it bring.1SG tomorrow the dessert
'I'll bring it tomorrow, the dessert.' (Italian, Benincà 1988)



A subtype of RD that has received little attention—that involving multiple RD-ed units (MRD).

- (2) a. He_i gave them_j to his sister, Peter_i, [the keys]_j. (English, Averintseva-Klisch 2009)
- b. *Il_i la_j lui_k a donnée, à Jean_k, [son père]_i, [sa moto]_j.*
he it to.him has given to Jean his dad his motorbike
'He gave it to him, to Jean, his dad, his motorbike.' (French, Calve 1985)

In familiar European languages, MRD is a straightforward extension of SRD (single RD).



An even more special and less discussed pattern: **multi-categorical multiple RD (MMRD)**. It occurs naturally in some Chinese dialects, especially in casual and relaxed speech.

- (3) *Chao caihuar chi ae, wo ji ni, jin shangwu.* [Dongying Mandarin]
stir-fry cauliflower eat SFP I for you this noon
'Stir-fry cauliflower, I for you, this noon.' \approx 'I'll stir-fry cauliflower for you for lunch.'

📍 Dongying Mandarin: a subvariety of Northern Mandarin Chinese

NB the sentence-final particle (SFP) marks the end of the main sentence.



More examples of MMRD:

- (4) a. *Bu niaehur ae, zhe sie diaefen, yi daer ye.* [Dongying Mandarin]
not sticky SFP this CL.PL starch one bit also
'Not sticky, this starch, even a bit.'
≈ 'This bag of starch isn't sticky at all (i.e., is of poor quality).'
- b. *Gae-bu-liao liae, shb ye, zhe yi mer.*
do-not-RES SFP anything also this one period
'Can no longer do, even anything, this period of time.'
≈ 'One can't do anything anymore these days (due to COVID-19).'
- c. *Zaezae-zhou ae, dei, mae yunqi lai, haoshi-zhou.*
save-DUR SFP must DISP luck LAI carefully-DUR
'Save up, must, (take) luck (to), carefully.' ≈ 'We must carefully save up our good luck.'



Basic characteristics:

- RD-ed units highly versatile in syntactic category/constituency
- mostly no coreferential term (aka correlate) in main clause
- typically very incomplete main clause

Intuitively, MMRD happens when speakers are not bothering organizing language but just outputting whatever comes to mind first. It is a kind of “disorganized” speech systematically allowed by Chinese syntax—a **minor sentence type** in a broad sense.

Two additional characteristics:

- Free ordering of RD-ed units
- Not limited by illocutionary force (i.e., sentence type in the narrow sense)



- (5) a. *Zaezae-zhou ae, dei, mae yunqi lai, haoshi-zhou.* [Dongying Mandarin]
save-DUR SFP must DISP luck LAI carefully-DUR
'Save up, must, (take) luck (to), carefully.' (= 4b)
- b. *Zaezae-zhou ae, dei, haoshi-zhou, mae yunqi lai.*
save-DUR SFP must carefully-DUR DISP luck LAI
'Save up, must, carefully, (take) luck (to).'
- c. *Zaezae-zhou ae, mae yunqi lai, dei, haoshi-zhou.*
save-DUR SFP DISP luck LAI must carefully-DUR
'Save up, (take) luck (to), must, carefully.'
- d. ... All permutations work—depends on which comes to mind first!



- (6) a. *Bu niaehur **man**, zhe sie diaefen, yi daer ye?* (interrogative)
not sticky SFP this CL.PL starch one bit also
'Not sticky, this starch, even a bit?' ≈ 'This bag of starch isn't sticky at all?' 🤔
- b. *Chao caihuar chi **bae**, ngen ji ngae, jin shangwu!* (imperative)
stir-fry cauliflower eat SFP you for me this noon
'Stir-fry cauliflower, you for me, this noon!'
≈ 'Stir-fry cauliflower for me for lunch today, please!' 😊
- c. *Zaezae-zhou **ninhae**, renge dai, mae yunqi lai, yizuer!* (exclamatory)
save-DUR SFP others will DISP luck LAI altogether
'Save up, she/he will, (take) luck (to), altogether!'
≈ 'She/he is going to save up all her/his good luck! (surprised and amused tone)' 😂



In this study, I will

- review previous approaches to RD in three frameworks (Minimalism, LFG, Dynamic Syntax)
- conclude that MMRD is a challenge for all of them
- propose a new analysis integrating useful ideas from previous studies



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- 2 Literature review
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RD usually analyzed in one of two ways:

- ① in a single clause, “RD-ed” unit stranded upon leftward movement of the rest of the clause
← the monoclausal approach
- ② coordination of two clauses plus ellipsis in the second clause, upon leftward movement of the “RD-ed” unit
← the biclausal approach

Both have been applied to Chinese (S)RD—Sun (2022) applies them to inversion-like RD and argument RD, respectively.



Two types of SRD in Chinese:

- (7) a. *Shang feiji le, wo kuai.* [Standard Mandarin]
get.on plane SFP I soon
'Get on the plane, I (will) soon.'
≈ 'I'll get on the plane soon.' (inversion-like SRD)
- b. *Mali mai [e]_i le ba, baozhi_i.*
Mary buy PRO SFP SFP newspaper
'Probably Mary bought (it), the newspaper.' (argument SRD) (Sun 2022)

Argument SRD is like the common European RD pattern.



Sun's (2022) analysis:

(8) a. **Inversion-like SRD: focus fronting**

$[_{\text{FOCP}} [_{\text{VP}} t_i \text{ shang feiji le }]_j [_{\text{FOC}'} \text{ Foc } [_{\text{IP}} \text{ wo}_i [_{\text{I}'} \text{ I } [_{\text{AspP}} \text{ kuai } [_{\text{Asp}'} \text{ Asp } t_j]]]]]]$
'Get on the plane, I (will) soon.'

b. **Argument SRD: coordination-plus-ellipsis** (à la Ott & de Vries 2016)

$[_{\text{P}} [_{\text{CP}_1} \text{ mali mai pro}_i \text{ le ba }] [_{\text{,}'} [_{\text{CP}_2} \text{ baozhi}_i [_{\text{TP}_2} \text{ ~~mali mai t}_i \text{ le}~~]]]]$
'Probably Mary bought (it), the newspaper.'

A special “colon coordinator” in (8b): Koster's (2000) specifying coordination

(8a) more flexible: does not require the RD-ed (i.e., stranded) string to be a constituent



Limitation of focus fronting: one-round-per-clause (hence inapplicable to MRD)



Ott & de Vries's (2016) schema:

(9) $[_{CP_1} \dots \text{correlate}_i \dots] (:) [_{CP_2} dXP_i [\dots t_i \dots]]$

Two types of (S)RD:

- Colon coordination (in syntax): backgrounding (BRD)  topic-like
- Direct juxtaposition (in discourse): afterthought (ARD)  focus-like

(10) *Ich habe heute [einen Star]_i getroffen: [den John Travolta]_i!* [German]
I have today a.ACC star met the.ACC John Travolta
'I met a star today: John Travolta!' (ARD) (Ott & de Vries 2016)

(The “:” here is a punctuation mark, not the colon coordinator.)



Ott & de Vries's (2016) derivations:

- (11) a. $[_{IP} [_{CP_1} \text{he}_i\text{'s really smart}] [_{I'} : [_{CP_2} \text{John}_i [t_i \text{ is really smart}]]]]$ (BRD)
- b. $[_{CP_1} \text{ich habe heute einen Star getroffen}]$ (ARD)
 $[_{CP_2} [\text{den John Travolta}].\text{ACC}_i [\text{habe ich } t_i \text{ getroffen}]]$

In general, the coordination-plus-ellipsis approach cannot handle inversion-like RD in Chinese, because Ott & de Vries's *dXP* is by definition a **phrasal constituent**.



Kalbertodt (2019):

- Empirical focus on German, so only about the **coreferential** pattern in European languages
- Not directly useful for MMRD, but shows us how RD can be handled by LFG

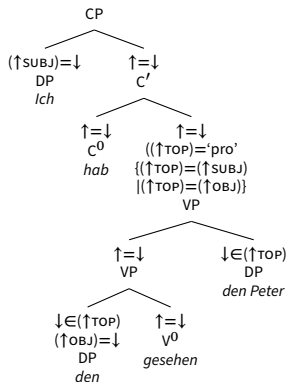
Also distinguishes BRD and ARD—e.g., same string, different intonation

- (12) a. *Ich hab ihn_i gesehen, [den Peter]_i.* (BRD, deaccented) [German]
 I have him seen the Peter
- b. *Ich hab ihn_i gesehen. [Den Peter]_i.* (ARD, nuclear accent)
 I have him seen the Peter (Kalbertodt 2019)

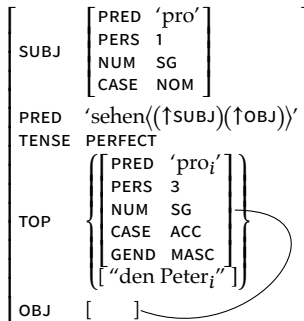


(13) *Ich hab ihn_i gesehen, den Peter_i.* 'I have seen him, Peter.' (BRD)

a. c-structure



b. f-structure



Kalbertodt's analysis:

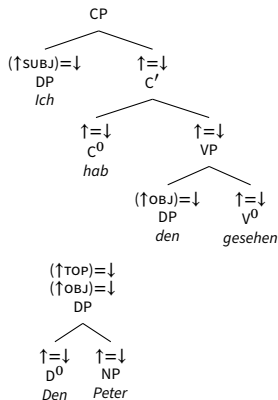
- c-structure: VP-adjunct
- part of main clause
- f-structure: topic function
- correlate *den* also topic

Basically a monoclausal analysis

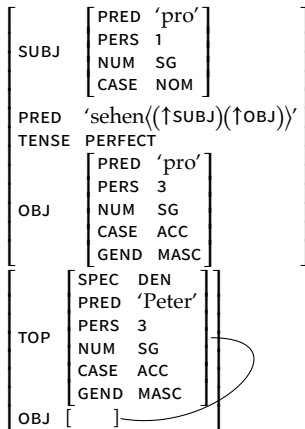


(14) *Ich hab ihn_i gesehen. Den Peter_i.* 'I have seen him. Peter.' (ARD)

a. c-structure



b. f-structure



Kalbertodt's analysis:

- separate c-structure (DP)
- called an "orphan"
- not part of main clause
- f-structure: object & topic

Basically a biclausal analysis



Different from Minimalism/LFG, Dynamic Syntax (DS) directly reflects **time-linear parsing**. Thus, it has built-in **resource-awareness**, which is well reflected in its treatment of RD.

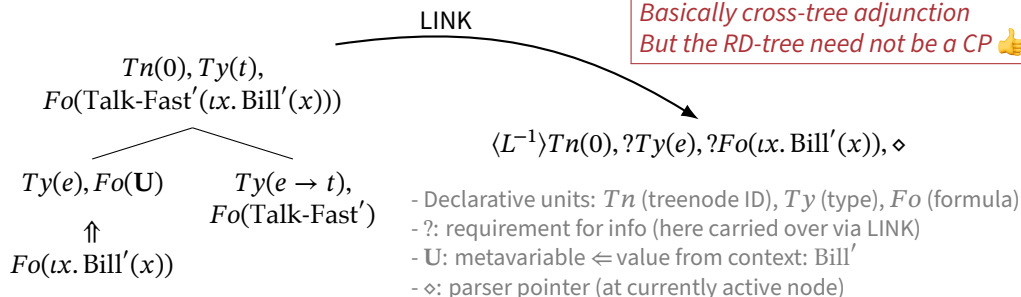
DS analysis of RD (Cann et al. 2005, Wu 2005, Chatzikyriakidis 2016):

- BRD: two linked trees
- ARD: via an implicit question

Still only designed for familiar European patterns and inapplicable to MMRD.



(15) He_i talks too fast, [the new secretary]_i. (Cann et al. 2005; see also Wu 2005)



Left tree: main clause (address 0, type t)

Right tree: RD-ed unit (address 'reversely linked to $Tn(0)$ ', requiring $\text{Bill}'_{(e)}$)

The $?$ -requirements can only be met by a term that refers to Bill.



Chatzikyriakidis (2016): clarification answers to implicit questions

- (16) *Ton_i htipise o Giorgos,, [ton Giani]_i.* [Greek]
him.ACC hit the George the.ACC John.ACC
'George hit him,, John.' (ARD)

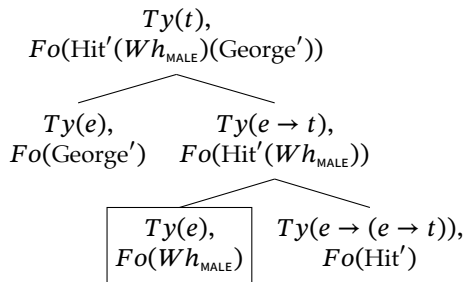
(Chatzikyriakidis uses “,,” to indicate a “period intonation” associated with afterthoughts.)

Interpretive effect: 'George hit him. You want to ask who George hit? George hit John.'

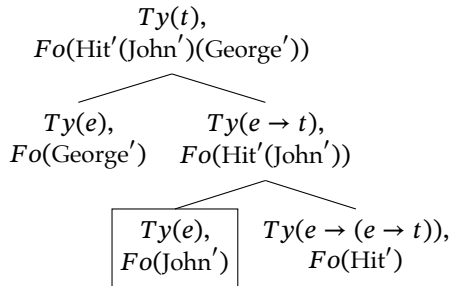
(i) Parse main clause. (ii) Parse afterthought. (iii) Make implicit question. (iv) Substitution.



- (17) a. Implicit question
 'Who_{MALE} did George hit?'



- b. Substitution 'George hit John.'



(adapted from Chatzikyriakidis 2016)



Multiple ARD in Chatzikyriakidis's (2016) analysis:

- (18) *Ton_i ida,, [ton Giorgio]_{i,,} xtes.* [Greek]
him.ACC saw.1SG the.ACC George.ACC yesterday
'I saw him,, George,, yesterday.' (two metavariables: 'who', 'when')

Interpretive effect: 'I saw him. You want to ask who I saw? I saw George. You also want to ask when I saw George? I saw George yesterday.'

Limitations:

- Only works for **constituent** RD (since each DS tree must have a well-defined type)
- Relies on a relatively **complete main clause** (left-to-right parsing feeds on lexical content)



Having reviewed how RD is analyzed in three theoretical frameworks, I conclude that MMRD is a challenge for all of them.

Table: Three previous approaches to RD

Approach	Framework	Advantage	Problem
Focus fronting	Minimalism	can derive inversion-like, nonconstituent RD	limited to SRD
Coord.+ellipsis	Minimalism	can derive MRD	limited to constituent RD, resource-demanding
Lite multi-tree syn.	DS (LFG)	can derive MRD, resource-sensitive	limited to constituent RD, needs complete main clause



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Proposal:

- Inheriting basic minimalist settings so that focus fronting can normally proceed
- Using **multi-workspace** derivation to implement lite multi-tree syntax in Minimalism

The reason why the original coordination-plus-ellipsis approach is resource-demanding is because it manipulates full-fledged CPs. There is no such requirement in multi-workspace derivation. The content of a side workspace may well be a vP, DP, etc.

Multi-workspace derivation has long been used in practice (e.g., Zwart 2011, Fowlie 2013).

(19) [The man] kicked the ball.

(Zwart 2011; pre-derived subject)



An MMRD sentence:

- (20) *Zaezae-zhou ae, dei, mae yunqi lai, haoshi-zhou.* [Dongying Mandarin]
save-DUR SFP must DISP luck LAI carefully-DUR (= 4c)
'Save up, must, (take) luck (to), carefully.' \approx 'We must carefully save up our good luck.'

We can derive this sentence using **three workspaces** with just enough structure.

- (21) a. WS_1 (main + RD_1): $[_{ForceP} [_{FocP} [_{VP} \text{zaezae-zhou } pro_o]_k [_{Foc'} Foc t_j]_i]_{Force} ae] [_{GroundP} [_{IP} pro_s [_{I'} [_{I} dei] t_k]_j [_{Ground'} Ground t_i]]]]$ (à la Sun 2022)
- b. WS_2 (RD_2): $[_{VP} pro_s [_{V'} [_{V} mae] [_{ApplP} yunqi_o [_{Appl'} [_{Appl} lai] [_{VP} \text{zaezae-zhou } t_o]]]]]]$
- c. WS_3 (RD_3): $[_{VP} [_{AdvP} haoshi-zhou] [_{VP} pro_s [_{V'} v [_{VP} \text{zaezae-zhou } pro_o]]]]$

(Here I put RD_1 in WS_1 to demonstrate focus fronting, but it may also have its own WS.)



Next, we coordinate the three workspaces, but

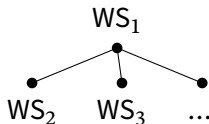
- not by discourse juxtaposition since not all our workspaces contain sentences
- nor by a CoP (or :P) in phrasal syntax since it encodes more asymmetry than desirable
 - we do not want [$WS_1 : [WS_2 : [WS_3 : \dots]]]$ (pace Sun 2022)
 - because in MMRD only the main clause is fixed in position, while the RD-ed units can be freely reordered (i.e., no evidence of structural asymmetry)
 - so we want something like [$WS_1 > \{ WS_2, WS_3, \dots \}]$ instead
(where “>” means ‘structurally above / more prominent than’)



$$[WS_1 > \{WS_2, WS_3, \dots\}]$$

Set Merge cannot yield this structure (binary-branching!) but **Pair Merge** can (cf. Song 2024).

- Let WS_1 pair-merge with $WS_{i \geq 2}$ separately, each on a different plane.
(see Chomsky 2004 et seq. and especially Chomsky 2019)
- Get $\{\langle WS_1, WS_2 \rangle, \langle WS_1, WS_3 \rangle, \langle WS_1, \dots \rangle\}$. **1**
- Order-theoretically, this is equivalent to $\langle WS_1, \{WS_2, WS_3, \dots\} \rangle$. **2**
- Both **1** and **2** describe the same partial order, as in the following Hasse diagram:





Corresponding to this “loose coordination” in syntax, we can let the workspaces’ contents be only **loosely conjoined** in semantics too:

- not by the boolean \wedge since not all workspaces have type- t values in our lite setting
- a generic coproduct (aka disjointed union) operation \oplus is more suitable

$$\llbracket WS_1 \rrbracket \oplus \llbracket WS_2 \rrbracket \oplus \llbracket WS_3 \rrbracket \oplus \llbracket \dots \rrbracket$$

(22) *Zaezae-zhou ae, dei, mae yunqi lai, haoshi-zhou.* [Dongying Mandarin]
save-DUR SFP must DISP luck LAI carefully-DUR (= 4c)

‘Save up, must, (take) luck (to), carefully.’ \approx ‘We must carefully save up our good luck.’

Interpretive effect (more pedantically):

‘ $\llbracket WS_1 \rrbracket$ Save up (sth.), we must]; $\llbracket WS_2 \rrbracket$ saving luck]; $\llbracket WS_3 \rrbracket$ carefully saving (sth.)].’



We can take a step further and give the cross-workspace information integration a formal protocol—using a process calculus such as the **session calculus** (Yoshida & Gheri 2020).

In session-based modeling of concurrency and distributed systems, a communication **session** involves **participants** p, q, \dots and their **processes** P, Q, \dots .

(23) $p \triangleleft P = !c\langle m \rangle. ?d(x). 0$

(The process P of participant p : send a message m via channel c , receive any message via channel d and assign it to variable x , and terminate.)

(See paper version for more detail.)



We can view the cross-workspace information integration in an MMRD sentence as a session:

- Each workspace is a participant.
- Each Pair Merge step establishes a communication channel.
- The integrated information is ultimately fed to the C-I system (also viewed as a participant).

Our running example: $[\text{WS}_1 \text{ Save up, must}], [\text{WS}_2 \text{ (take) luck (to)}], [\text{WS}_3 \text{ carefully}].$

- (24)
- $\text{WS}_2 \triangleleft P_{\text{WS}_2} = !a\langle \llbracket \text{WS}_2 \rrbracket \rangle.0$ (WS_2 sends its content as a message via channel a and terminates.)
 - $\text{WS}_3 \triangleleft P_{\text{WS}_3} = !b\langle \llbracket \text{WS}_3 \rrbracket \rangle.0$ (WS_3 sends its content as a message via channel b and terminates.)
 - $\text{WS}_1 \triangleleft P_{\text{WS}_1} = ?a(x).?b(y).!s\langle \llbracket \text{WS}_1 \rrbracket \oplus x \oplus y \rangle.0$
(WS_1 receives two messages via channels a and b and assigns them to x and y , loosely conjoins the received messages with its own content, sends the coproduct via channel s , and terminates.)
 - $\text{CI} \triangleleft P_{\text{CI}} = ?s(z).0$ (CI receives a message via channel s , assigns it to z , and terminates.)



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My analysis of Chinese MMRD is as follows:

- (25) *Zaezae-zhou ae, dei, mae yunqi lai, haoshi-zhou.* [Dongying Mandarin]
save-DUR SFP must DISP luck LAI carefully-DUR (= 4c)
‘_{WS₁} Save up, must], [_{WS₂} (take) luck (to)], [_{WS₃} carefully].’

Syntax: Derived in three workspaces with just enough structure, loosely joined by Pair Merge

PF: Main clause fixed in position, RD-ed units flexible in ordering

LF: Three parallel (i.e., concurrent) thoughts, loosely joined by coproduct \oplus

Session: Multi-workspace derivation is like distributed computing







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Thank you!





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