

Demonstratives and the Restrictive/Appositive Distinction in Mandarin Relative Clauses

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Mandarin relative clauses (RC) can co-occur with demonstratives (Dem):

<RC> Dem Num CL <RC> N

- pre-Dem position:

(1) [_{RC} ying-le bisai de] zhe/na (yi) wei xuesheng
win-PERF game DE this/that one CL student

- post-Dem position:

(2) zhe/na (yi) wei [_{RC} ying-le bisai de] xuesheng
this/that one CL win-PERF game DE student

Question: 'this/that student (,) who won the game' (restrictive or appositive)?

Introduction

Different conclusions were reached about the correlation (Chao 1968; Huang 1982; Lin 2003; Constant 2011; Lin&Tsai 2014; Del Gobbo 2010, 2017 a.o.)

	Chao, Huang	Lv, Tsai	Lin	Constant
pre-Dem RC	restrictive	appositive	restrictive	restrictive
post-Dem RC	appositive	restrictive	restrictive	restrictive/appositive

→ The restrictive/appositive (R/A) distinction correlates with RC's pre/post-Dem position.

Why is it so difficult to diagnose the distinction?

Tests for R/A distinction in English (Jackendoff 1977; Cinque 2008; Potts 2003; Del Gobbo 2003, a.o.):

- QP anchors: *appositive; restrictive
 - (3) a. *John congratulated every student, who won the game.
 - b. John congratulated every student that won the game.
- Non-DP anchors: appositive; *restrictive
 - (4) a. Mary is **honest**, which John will never be.
 - b. *Mary is **honest** that John will never be.

Most of these tests, however, are for **non-integrated** appositives (Cinque 2008), while Mandarin appositives are **integrated** (Gobbo 2010, 2017).

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Tests which tease apart integrated appositives and restrictives in Mandarin (Constant 2011; Lin&Tsai 2014; Del Gobbo 2010, 2017):

- Nondeniability
- Antibackgrounding
- Root-level adverbs

This talk:

- Different uses of demonstrative are ignored in previous research, and they interact with R/A distinction
- No one-to-one correspondence between pre/post-Dem position and R/A distinction

- 1 Two uses of demonstrative
- 2 The central claim and arguments
 - The restrictive/appositive distinction of RCs correlates with the uses of Dem
 - Applying three valid tests
- 3 Analysis
- 4 Conclusions

Different uses of Dem are not distinguished

At least two uses of demonstrative:

- Deictic use (Dissel 1999; Roberts 2003)

(5) ☞ zhe/na wei xuesheng hen xingyun
 this/that CL student very lucky
 ‘This/that student is very lucky’

Different uses of Dem are not distinguished

At least two uses of demonstrative:

- Deictic use (Dissel 1999; Roberts 2003)

(5) ☞ zhe/na wei xuesheng hen xingyun
 this/that CL student very lucky
 'This/that student is very lucky'

- Anaphoric use (Wolter 2004; Jenks 2018)

(6) you yi wei xuesheng ying-le bisai. zhe/na wei xuesheng
 have one CL student win-PERF game this/that CL student
 hen xingyun
 very lucky
 '[A student]; won the game. [This/that student]; was very lucky'

1 Two uses of demonstrative

2 The central claim and arguments

- The restrictive/appositive distinction of RCs correlates with the uses of Dem
- Applying three valid tests

3 Analysis

4 Conclusions

The central claim

- $\langle RC_{*restrictive/appositive} \rangle$ Dem_{deictic} CL $\langle RC_{restrictive/appositive} \rangle$ N
- $\langle RC_{restrictive/appositive} \rangle$ Dem_{anaphoric} CL $\langle RC_{restrictive/appositive} \rangle$ N

1 Two uses of demonstrative

2 **The central claim and arguments**

- The restrictive/appositive distinction of RCs correlates with the uses of Dem
- **Applying three valid tests**

3 Analysis

4 Conclusions

Test 1: Nondeniability

Appositives as conventional implicatures are not deniable with epistemic riders (Constant 2011; Potts 2005).

- (7) a. #If John *did win*, then John, *who won the game*, was lucky.
b. If a student *did win*, then the student *that won the game* was lucky.

If the result is # \rightarrow RC can only be appositive;

If the result is *ok* \rightarrow RC can be restrictive.

Test 1: Nondeniability

- Deictic use of Dem

(8) ruguo 如果 zhe wei xuesheng qieshi ying-le,
if this CL student indeed win-PERF

'If this student indeed won,...

a. #_[RC ying-le bisai de] 如果 zhe wei xuesheng hen xingyun
win-PERF game DE this CL student very lucky

'this student, who won the game, was very lucky'

b. 如果 zhe wei _[RC ying-le bisai de] xuesheng hen xingyun
this CL win-PERF game DE student very lucky

'this student who won the game, was very lucky'

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if this CL student indeed win-PERF
'If this student indeed won,...

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win-PERF game DE this CL student very lucky
'this student, who won the game, was very lucky'

b. 如果 zhe wei _[RC ying-le bisai de] xuesheng hen xingyun
this CL win-PERF game DE student very lucky
'this student who won the game, was very lucky'

→ This shows:

	Deictic Dem
pre-Dem RC	can only be appositive
post-Dem RC	can be restrictive

Test 1: Nondeniability

- Anaphoric use of Dem

(9) ruguo you yi wei xuesheng queshi ying-le,
if have one CL student indeed win-PERF
'If a student indeed won,...

- a. [_{RC} ying-le bisai de] zhe wei xuesheng hen xingyun
win-PERF game DE this CL student very lucky
- b. zhe wei [_{RC} ying-le bisai de] xuesheng hen xingyun
this CL win-PERF game DE student very lucky
this student who won the game, was very lucky'

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pre-Dem RC	can be restrictive
post-Dem RC	can be restrictive

Test 2: Antibackgrounding

The content of appositives cannot be backgrounded (Potts 2005) while the content of restrictives are often presupposed (Comrie 1981; Constant 2011).

- (10) a. Bill **loves reading**. #When reporters interview Bill, **who loves reading**, he often talks about his books.
- b. A student **loves reading**. When reporters interview the student **that loves reading**, he often talks about his books.

If the result is # → RC can only be appositive;

If the result is *ok* → RC can be restrictive.

Test 2: Antibackgrounding

- Deictic use of Dem

- (11) 这 zhe wei xuesheng ai dushu, ... zuotian mai-le xuduo shu
this CL student love reading ... yesterday buy-PERF many book
'This student loves reading. bought many books yesterday'
- a. #_[RC ai dushu de] 这 zhe wei xuesheng
love reading DE this CL student
'This student, who loves reading'
- b. 这 zhe wei _[RC ai dushu de] xuesheng
this CL love reading DE student
'This student who loves reading'

Test 2: Antibackgrounding

- Deictic use of Dem

(11) 这[DE] 这位 学生 爱 读书, ... 昨天 买-了 很多 书
this CL student love reading ... yesterday buy-PERF many book
'This student loves reading. bought many books yesterday'

a. # [RC 爱 读书 的] 这[DE] 这位 学生
love reading DE this CL student
'This student, who loves reading'

b. 这[DE] 这位 [RC 爱 读书 的] 学生
this CL love reading DE student
'This student who loves reading'

→ This shows:

	Deictic Dem
pre-Dem RC	can only be appositive
post-Dem RC	can be restrictive

Test 2: Antibackgrounding

- Anaphoric use of Dem

- (12) mou wei xuesheng ai dushu, zuotian mai-le xuduo shu
some CL student love reading yesterday buy-PERF many book
'Some student loves reading. bought many books yesterday.'
- a. [_{RC} ai dushu de] zhe wei xuesheng
love reading DE this CL student
- b. zhe wei [_{RC} ai dushu de] xuesheng
this CL love reading DE student
'This student who loves reading'

Test 2: Antibackgrounding

- Anaphoric use of Dem

(12) mou wei xuesheng ai dushu, zuotian mai-le xuduo shu
some CL student love reading yesterday buy-PERF many book
'Some student loves reading. bought many books yesterday.'

a. [_{RC} ai dushu de] zhe wei xuesheng
love reading DE this CL student

b. zhe wei [_{RC} ai dushu de] xuesheng
this CL love reading DE student
'This student who loves reading'

→ This shows:

	Anaphoric Dem
pre-Dem RC	can be restrictive
post-Dem RC	can be restrictive

Test 3: Root-level adverbs

	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	can be restrictive
post-Dem RC	can be restrictive	can be restrictive

Excerpt pre-Dem RCs for deictic Dem, the question remains for the other three cases: can it only be restrictive or also be appositive?

Test 3: Root-level adverbs

	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	can be restrictive
post-Dem RC	can be restrictive	can be restrictive

Excerpt pre-Dem RCs for deictic Dem, the question remains for the other three cases: can it only be restrictive or also be appositive?

We need a test to rule out restrictive RCs!

Applying Test 3: Only appositives can host root-level adverbs (Emonds 1979).

- (13) a. The student, who frankly has much time, should help you.
b. #The student that frankly has much time should help you.

Test 3: Root-level adverbials

- Deictic use of Dem

(14) yinggai bang ni
should help you
'..... should help you'

a. [_{RC} laoshishuo you henduo shijian de] 这 zhe wei xuesheng
frankly have much time DE this CL student

b. 这 zhe wei [_{RC} laoshishuo you henduo shijian de] xuesheng
this CL frankly have much time DE student
'This student, who frankly has much time, '

→ This shows:

	Deictic Dem
pre-Dem RC	can be appositive
post-Dem RC	can be appositive

Test 3: Root-level adverbials

- Anaphoric use of Dem

- (15) mou wei xuesheng ying-le bisai. wo hen xinshang
- some CL student win-PERF game I very admire
'Some student won the game. I admire
- a. [_{RC} laoshishuo congbu songxie de] zhe wei xuesheng
frankly never slack DE this CL student
- b. zhe wei [_{RC} laoshishuo congbu songxie de] xuesheng
this CL frankly never slack DE student
'this student, who frankly never slacks off'

→ This shows:

	Anaphoric Dem
pre-Dem RC	can be appositive
post-Dem RC	can be appositive

Generalizations

	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	restrictive/appositive
post-Dem RC	restrictive/appositive	restrictive/appositive

→ How to capture the generalization?

The syntax of RCs

We adopt the matching analysis for the syntax of RCs such that a null operator moves within RCs.

(16) $[_{RC} Op_i [t_i \text{ying-le bisai}]\text{-de}]$
win-PERF game MOD

$\llbracket [_{RC} Op_i [t_i \text{ying-le bisai}]\text{-de}] \rrbracket = \lambda x. \mathbf{win.the.game}(x)$

Demonstratives as strong definite articles

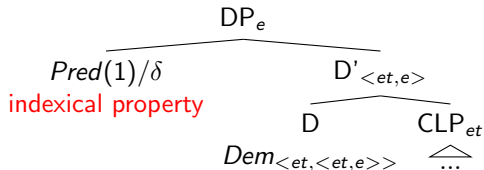
Demonstratives have an extra argument slot (Elbourne 2005; Schwarz 2009; Jenks 2018).

(17) Anaphoric use:


[A student]₁ just came in. [That student]₁ seemed happy.

$[[Pred(1)]^g = \lambda x.x = g(1)$

$[[that]] = \lambda P \lambda Q : \exists ! x [P(x) \& Q(x)]. \iota x [P(x) \& Q(x)]$



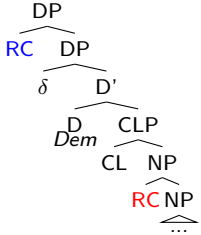
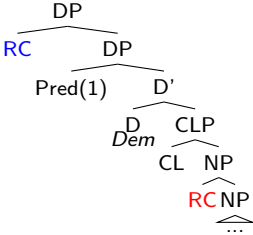
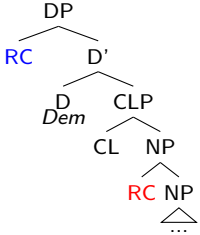
(18) Deictic use:

 That student seemed happy.

$[[\delta]] = \lambda x.L_\delta(x)$ ($L_\delta(x)$ is true iff x is in a distal location demonstrated by the speaker's gesture δ)

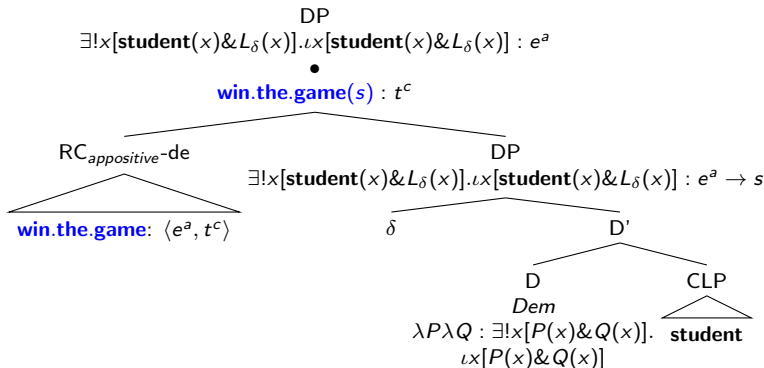
Analysis

- Deictic use: SpecDP is **obligatorily** occupied by the demonstration δ
- Anaphoric use: SpecDP is **optionally** occupied by the referential index

Deictic Dem	Anaphoric Dem	
		
Pre-Dem RCs adjoin to DP	Pre-Dem RCs adjoin to DP	Pre-Dem RCs in SpecDP
→ appositive		→ restrictive
Post-Dem RCs adjoin to NP → restrictive/appositive		

Analysis (pre-Dem RCs)

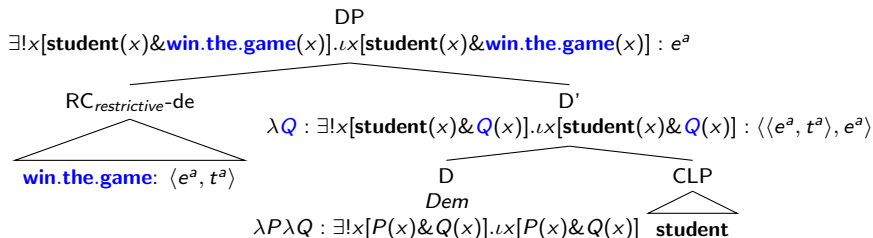
	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	restrictive/appositive



The composition of conventional implicatures (CI application, Potts 2005)

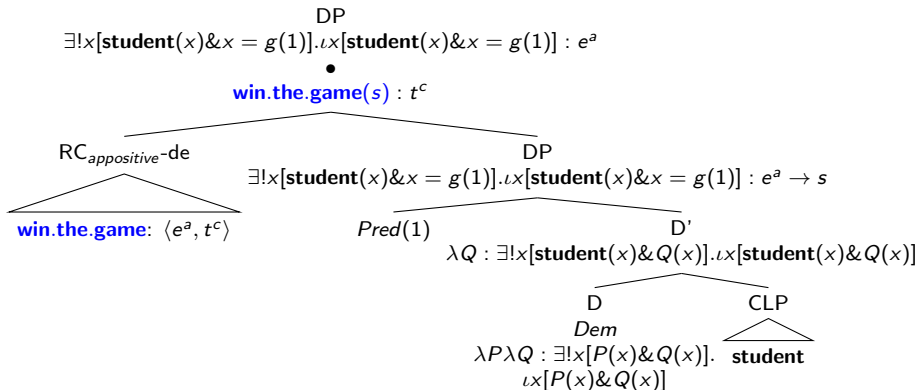
Analysis (pre-Dem RCs)

	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	restrictive/appositive



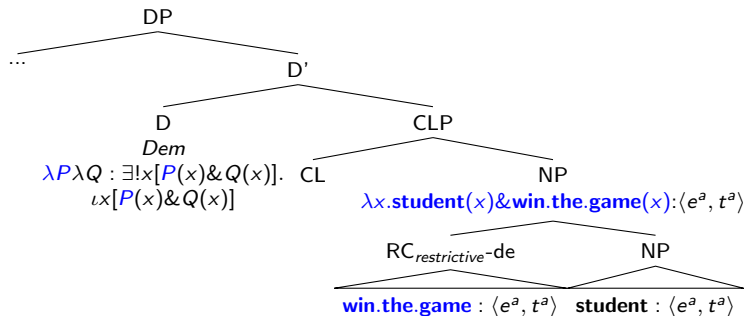
Analysis (pre-Dem RCs)

	Deictic Dem	Anaphoric Dem
pre-Dem RC	*restrictive/appositive	restrictive/ appositive



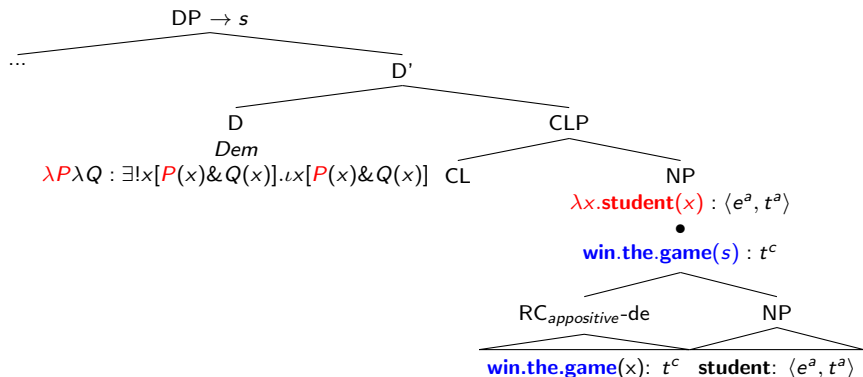
Analysis (post-Dem RCs)

	Deictic Dem	Anaphoric Dem
post-Dem RC	restrictive/appositive	restrictive/appositive



Analysis (post-Dem RCs)

	Deictic Dem	Anaphoric Dem
post-Dem RC	restrictive/ appositive	restrictive/ appositive



Appositives can be propositional and contain a variable that is saturated by the value of the nearest discourse referent (Potts 2005; Constant 2011)

Conclusions

- Two uses of demonstrative are distinguished:

	Deictic Dem	Anaphoric Dem
SpecDP	*(δ)	(referential index)

- Different uses of demonstratives interact with the restrictive/appositive distinction of RCs:

	Deictic Dem	Anaphoric Dem
pre-Dem RC	appositive	restrictive/appositive
post-Dem RC	restrictive/appositive	restrictive/appositive

- No one-to-one correspondence between RC's pre/post-Dem position and its R/A distinction

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Further questions:

$$\langle \text{RC} \rangle \left\{ \begin{array}{l} \text{Dem Num CL} \\ \text{Num CL} \\ \text{Quantifier (CL)} \end{array} \right\} \langle \text{RC} \rangle \text{N}$$