Focus Intervention Effects of verb movement in Cantonese

Tommy Tsz-Ming Lee

University of Southern California

The 34th North American Conference on Chinese Linguistics (NACCL 34)

> September 23-25, 2022 at Indiana University, Bloomington

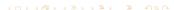


Table of Contents

• Introduction

Introduction

- Pocus Intervention Effects
- Analysis
- Two predictions
- Remarks



Two predictions Remarks

Introduction

- The empirical goal of this talk is to report a novel type of Focus Intervention Effects (FIE)
- Typically, FIE are observed with configurations relating to wh-expressions (Huang 1982; Soh 2005; Kim 2006; Yang 2008, 2012; Li and Cheung 2012, 2015)
- A wh-expression cannot be preceded by a focused element
- (1) Focus Intervention Effects in *wh*-questions

illustrated with Cantonese

- a. *淨係阿明買咗邊本書?
 - *Zinghai [Aaming]_{Focus} maai-zo **bin-bun syu?** only Aaming buy-perf which-cl book Int.: 'Which book is such that only Aaming bought it?'
- b. 邊本書淨係阿明買咗?

Bin-bun syu jinghai [Aaming]_{Focus} maai-zo? what only Aaming buy-perf
Int.: 'Which book is such that only Aaming bought it?'



: (USC) Focus Intervention Effects NACC

Introduction

Introduction

- Assuming wh-questions involve a licensing (null) question operator Q,
 - (2) FIE in wh-questions

$$b.^{OK} \underset{|}{Q} ... \ WH \ ... \ F_{prt} \ Focus$$

- A similar pattern is observed with verb doubling constructions (cf. Cheng and Vicente 2013)
 - (3) FIE in verb doubling constructions

b.
$$^{OK}V \dots V \dots F_{prt}$$
 Focus

• In addition to wh-dependency, FIE are also observed with verb/head dependency

▼□▶▼圖▶▼≣▶▼≣▶ ■ 釣९@

Introduction

- I argue for a head movement analysis of verb doubling constructions
- I propose an Agree-based account on the FIE pattern (Chomsky 2000, 2001), in a way similar to Li and Cheung (2012)
- The proposal further captures patterns in
 - (i) right dislocation of verbs, and
 - (ii) VP fronting
- Theoretical implications:
 - (i) Syntactic approaches to FIE
 - (ii) the locality conditions on head movement



Table of Contents

- Introduction
- Focus Intervention Effects
- Analysis
- Two predictions
- A Remarks



Focus Intervention Effects

Verb doubling constructions

In Cantonese (and many other Chinese languages), a verb can doubly appear in its base position and in the periphery position (Cheng and Vicente 2013).

V S V O: Contrastive verbal focus (4) (cf. Matthews and Yip 2011) 買佢係想買呢本書,不過...

Maai keoi hai soeng maai ni-bun syu, batgwo ... s/he cop want buy this-cl book but 'S/he wants to BUY this book (but s/he won't have time to READ it).'

Lin- V S V O: Additive verbal focus (5) (cf. Badan 2007)

連**睇**佢都唔敢**睇**呢本書。

Lin- tai keoi dou m gam tai ni-bun syu. even-read s/he also not dare read this-cl book 'S/he doesn't even dare to READ this book (let alone to REVIEW it).'

(i) Intervening focus associates

- These constructions become unacceptable if the subject is the associate of focus particles such as *zinghai* 'only', the copula *hai*, and *dak* 'only' (Tang 2002).
- (6) *買,淨係/得佢係想買呢本書,不過...
 - * Maai zinghai/dak keoi f hai soeng maai ni-bun syu, batgwo ...
 buy only/only s/he cop want buy that-cl book but
 Int.: 'Only s/he wants to BUY this book, but ...'
- (7) *連睇,係/得佢都唔敢睇呢本書。
 - *Lin- tai hai/dak keoi F dou m gam tai ni-bun syu. even-read cop/only s/he also not dare read this-CL book Int.: 'Only him/her is such that s/he doesn't even dare to READ this book.'

(i) Intervening focus associates

- Verb doubling constructions are compatible with focused elements, if they do not intervene between the two verbs.
- E.g., if they are in the object position
- (8) 買,佢係想買得一本書,不過...

 Maai keoi hai maai dak jat-bun syu F, batgwo ...

 buy s/he cop buy only one-CL book but

 'Aaming BOUGHT only one book (but it is the most valuable book).'
- (9) 連睇,佢都淨係睇得一次。
 Lin- tai keoi dou zinghai tai dak jat-ci F.
 even-read s/he also only read only one-CL
 'Even for reading, s/he READ only once.'
 - Note that focus particles like zinghai do no trigger FIE on their own



Lee (USC) Focus Intervention Effects NACCL 34

(ii) Intervening *wh*-expressions

- An identical pattern can be replicated with wh-expressions, which bear inherent focus interpretation (Rochemont 1986; Shi 1994; Kim 2006)
- When they intervene between the two verbs, the sentences are degraded
- (10) *買,邊個係想買呢本書?
 - * Maai bingo F hai soeng maai ni-bun syu?
 buy who COP want buy that-CL book
 'Who wants to BUY this book?'
- (11) *連行,邊個都行唔到十分鐘?
 - *Lin- **haang** bingo F dou **haang** -m-dou sap fanzun? even-walk who also walk-not-able ten minute 'Who cant even WALK for ten minutes?'



(ii) Intervening *wh*-expressions

- The sentences improve if the *wh*-expressions are in the object position.
- (12) 買,佢係想買乜野?

 Maai keoi hai soeng maai matje F?

 buy s/he cop want buy what

 'What does s/he want to buy?'
- (13) 連**行**,阿明都**行**晤到幾多分鐘? Lin- **haang** Aaming dou **haang** -m-dou **geidou fanzung** _F? even-walk Aaming also walk-not-able how.many minute 'For how many minutes does Aaming even fail to WALK?'

Non-intervening quantificational elements

- In languages like German and Korean (Beck 1996; Beck and Kim 1997), quantificational elements may trigger intervention effects in *wh*-questions
- They do not trigger intervention effects in verb doubling constructions
- (14) Non-intervening quantifiers and modals in verb doubling constructions
 - a. **想**,全部學生都應該係**想**去美國嘅。 **Soeng** cyunbou hoksaang dou jinggoi hai **soeng** heoi Meigwok ge2.

 want every student all should cop want go US sfp
 'Every student probably WANTS to go to the US (but ...).'
 - b. 連**行**,好多人都可能**行**唔到十分鐘。
 Lin- haang houdou jan dou honang haang -m-dou sap fanzung.
 even-walk many person also possible walk-not-able ten minute
 'Many people cannot even WALK for ten minutes.'

ee (USC) Focus Intervention Effects NACCL 34

Interim summary

Focus Intervention Effects in verb doubling constructions

(15) a.
$$*V ... (F_{prt})$$
 Focus ... V

b. $^{OK}V ... V ... F_{prt}$ Focus

c. $^{OK}V ... F_{prt} ... V ...$ Focus

No Quantifier Intervention Effects

Table of Contents

- Introduction
- Focus Intervention Effects
- 6 Analysis
- Two predictions
- Remarks

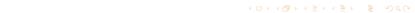


ntion Effects Analysis Two predictions Remarks References

O 000000 000000 000

Proposal

- I propose an Agree-based account for FIE in verb doubling constructions (cf. Li and Cheung 2012)
 - (i) a head movement analysis of verb doubling constructions (Vicente 2007; Cheng and Vicente 2013, i.a.), and
 - (ii) the minimality condition on Agree (Chomsky 2000, 2001).
- In a nutshell, the base verb in verb doubling constructions moves to the CP periphery for **focus interpretations** (with doubling effects, see Lee (2021))
- Such movement is interrupted by intervening focused elements along its path.
- I briefly replicate the evidence for head movement in verb doubling constructions, as discussed in Cheng and Vicente (2013) and Lee (2022)
 - → including Island effects, Lexical Identity Effects, and Idiom chunks



ee (USC) Focus Intervention Effects NACCL 34

us Intervention Effects Analysis Two predictions Remarks

Evidence for verb movement I

• **Island Effects**: the two verbs <u>cannot</u> span across **syntactic islands** (Ross 1967, et seq.).

(16) *Adjunct islands

- * tai [hai Aaming hai tai -jyun bun syu zihau], ngo sin faan-dou ukkei.

 read at Aaming COP read-finish CL book after I first return home 'As for reading, I was back after Aaming has already finished reading the book.'

(17) Complex NP islands

- *連走,我今日都聽到 [阿明走得慢過人嘅消息]
- *Lin- zau ngo gamjat dou tingdou [Aaming zau -dak maan-gwo jan ge even-leave I today also hear Aaming leave-res slow-than person mod siusik].

rumor

Int.: 'Today I hear that rumor that Aaming is slower than others even in LEAVING.'

Lee (USC) Focus Intervention Effects NACCL 34

Evidence for verb movement II

- Lexical Identity Effects: the verb in the periphery must be lexically identical to the base verb i.e., synonyms do not work
- (18) Lexical identity, but not semantic equivalence, is crucial
 - a. **查** /* check , 我係 **查** 過呢個人。
 { Caa / * cek } ngo hai caa -gwo ni-go jan.
 check/ check I cop check-EXP this-CL person
 'As for checking, I have checked this person.'
 - b. 連 keep / * 保管 ,阿明都唔想 keep 。
 Lin- { kip / * bougun } Aaming dou m-soeng kip .
 even- keep keep Aaming also not-want keep 'Aaming dones't even want to KEEP (it).'



Lee (USC)

Focus Intervention Effects Analysis Two predictions Remarks References

00000000 0000000 0000000 0000000

Evidence for verb movement III

- **Separability of idiomatic expressions**: an idiomatic expression must form a constituent, either in the lexicon (Jackendoff 1997) or in a local domain in the course of derivation (Marantz 1997)
- (19) 潑,我係可能潑咗你冷水。不過我只係想激勵你啫。

Putngohaihonangput-zoneilaangseoi.BatgwongozihaisoengpourIcoppossiblespill-perfyoucoldwaterbutIonlywantgiklaineizel.encourageyousfp

Idiomatic reading: 'I may have spoiled your pleasure, but I only want to encourage you.'

(20) 連吹,阿明都唔同我吹吓水。唔好話傾正經野。

Lin-**ceoi** Aaming dou m-tung ngo **ceoi**-haa seoi. M-hou waa king zingging even-blow Aaming also not-with me blow-haa water let.alone discuss serious

je.

thing

Idiomatic reading: 'Aaming didn't even CHIT-CHAT with me, not to mention discuss serious things.'

Lee (USC) Focus Intervention Effects NACCL 34 18

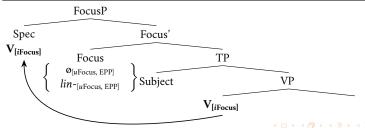
Implementation

• I assume that the focus particles bear a [*u*Focus] feature, and they agree with a [*i*Focus] feature in their domain (cf. Li and Cheung 2012)

(21) Association with focus

$$\begin{bmatrix} F_{\text{ocusP}} & F_{[u\text{Focus}]} & [TP... & X(P)_{[i\text{Focus}]} & ... \end{bmatrix} \end{bmatrix}$$

- In verb doubling constructions, the verb bears the [iFocus] and moves to Spec FocusP (i.e., head-to-specifier movement, Matushansky 2006)
- (22) A schematic representation of the proposed head-to-specifier movement



ee (USC) Focus Intervention Effects NACCL 34

Implementation

- I suggest that FIE are a natural consequence of the locality condition of Agree (Chomsky 2000, 2001)
- Agree is subject to the locality condition of closest c-command
- Substantially, if the subject bears a [*i*Focus] feature, it blocks verb movement to FocusP, as it is closer to the Focus head

(23) Deriving FIE in verb doubling constructions

```
 [_{FocusP} \text{ } \emptyset / lin‐_{[uFocus]} ... [_{TP} \text{ } Subject_{[iFocus]} ... \text{ } V_{[iFocus]} ... \text{ }] \text{ }]
```

• Focused elements in the object position do not induce FIE, because they are structurally lower than the verb and their [*i*Focus] feature does not interrupt verb movement

←□▶←□▶←□▶←□▶←□▼

Implementation

 This explanation predicts that in a configuration like (24), a focused subject will move instead of the verb, as it is closer.

- (24) $[F_{\text{ocusP}} \circ / lin_{[\mu Focus]} \dots [T_{\text{P}} \text{Subject}_{[iFocus]} \dots V_{[iFocus]} \dots]]$
 - This is borne out: a *wh*-subject can be targeted by the focus head *lin*, and undergoes (string-vacuous) focus movement.
- (25) 連邊個都唔睇呢本書?
 Lin-bingo F dou m tai ni-bun syu?
 even-who also not read this-cL book
 'Even WHO didn't read this book?'
- (26) A schematic representation of (25) $[_{\text{FP}} \ \textit{lin-}_{[uF]} \ ... \ [_{\text{TP}} \ \text{Subject}_{[iF]} \ ... \ V_{[iF]} \ ... \] \]$



Table of Contents

- Introduction
- Focus Intervention Effects
- Analysis
- Two predictions
- Remarks



(i) On non-focus-related verb movement

- FIE arise because the focus movement of a verb is intervened by a **focus** feature
- If verb movement is triggered by (discourse) features other than focus, FIE are predicted to be absent.
- A case in point is the **right dislocation (or dislocation copying) of verbs** in Cantonese, discussed in Lee (2017) and Lai (2019)
- (27) Dislocation copying of verbs
 Subject ... V ... Object SFP V
 - They independently suggest that the dislocated verb is interpreted as **defocused or given information**, i.e., it is not related to focus

(i) On non-focus-related verb movement

• The modal verb *hoji* 'may' is right-dislocated and doubled in the right periphery.

- (28) 阿明可以睇書呀可以。
 Aaming **hoji** tai syu aa3 **hoji**.

 Aaming may read book sfp may
 'Aaming may read books.'
 - However, the sentence in (29) shows that there is no FIE.
- (29) a. 淨係/得阿明可以睇書咋可以。

 Zinghai/dak Aaming F hoji tai syu zaa3 hoji .

 only/only Aaming may read book sfp may 'Only Aaming may read books.'
 - b. 邊個可以睇書呀可以?
 Bingo F hoji tai syu aa3 hoji?
 who may read book sfp may
 'Who may read books?'

Lee (USC) Focus Intervention Effects NACCL 34

(i) On non-focus-related verb movement

- Following the leftward movement approach to right dislocation (Cheung 2009; Lee 2017; Wei and Li 2018; Lai 2019), these sentences involve a derivation step in (30)
- The counterpart of a Focus head, namely, the Defocus head (ø) in the CP periphery attracts a [*i*Defocus] feature.

(30) The lack of FIE in (29):

```
[_{spp}] aa3 [_{Defocus}] \emptyset_{[uDefocus]} ... [_{TP}] Subject_{[iFocus]} ... V_{[iDefocus]} ... ] ] ]
```

- Crucially, the focused subject does not interrupt the non-focus-related movement
- (The derivation proceeds with TP movement to Spec sppP (not shown in (30))

Focus Intervention Effects Analysis **Two predictions** Remarks References

00000000 0000000 0000000 000

(ii) On VP fronting

- The proposed analysis on FIE is not specific to head dependencies
- It is predicted that similar FIE show up in VP fronting as well, if the VP bears a similar [*i*Focus] feature
- To see some baseline examples of VP fronting,

(31) Examples of VP fronting in Cantonese

- a. 自己煮飯食,阿明係唔肯嘅。但佢肯幫手洗碗。

bongsau sai wun.

help wash dish

'Cooking on his own, Aaming is not willing to (do so). But he is willing to help wash dishes.'

b. 連**掂吓呢隻動物**阿明都唔敢。

Lin- $[v_P]$ **dim-haa ni-zek dungmat**] Aaming dou m-gam Δ . even- touch-del this-cl animal Aaming also not-dare 'Aaming does not even dare to TOUCH THIS ANIMAL.'

Lee (USC) Focus Intervention Effects NACCL 34 26/3

(ii) On VP fronting

• These sentences become degraded if there is an intervening focused element.

(32) Focus Intervention Effects observed with verb phrases

- a. *自己煮飯食,得阿明係唔肯嘅。
 - *[$_{\mathrm{VP}}$ **Zigei zyu faan sik**], <u>dak</u> Aaming $_{\mathrm{F}}$ hai m-hang Δ ge2. self cook rice eat only Aaming cop not-willing sfp 'Cooking on his own, only Aaming is not willing to (do so).'
- b. ??連掂吓呢隻動物,我都覺得得阿明唔敢。
 - ?? Lin- [$_{
 m VP}$ dim-haa ni-zek dungmat], ngo dou gokdak <u>dak</u> Aaming even- touch-del this-cl animal I also think only Aaming m-gam Δ .

'I think that Aaming does not even dare to TOUCH THIS ANIMAL.'

Lee (USC) Focus Intervention Effects NACCL 34 27/36

(ii) On VP fronting

- FIE are observed with both verb movement and VP movement
- (33) FIE in verb doubling constructions and VP fronting

• FIE are observed with focus movement in general



Table of Contents

- Introduction
- Focus Intervention Effects
- Analysis
- Two predictions
- 6 Remarks



Focus Intervention Effects Analysis Two predictions Remarks R

Concluding remarks

- A potential counter example (thanks to an anonymous reviewer)
- (34) **睇**就係得我敢**睇**。 **Tai** zau hai <u>dak</u> ngo gam **tai**.

 read then cop only I dare read
 - 'Only me dare to read (it).'
 - Zau 'then' signals the presence of a conditional clause, and the doubled verb may be a significantly reduced form of a conditional clause, conveying a non-contrastive topic reading (Liu 2004)
- (35) No doubling effects with zau 'then' Context: in reply to the question of whether the speaker knows a lot of Chinese. 講就係,睇就唔係。

Gong zau hai. **Tai** zau m-hai. (Matthews and Yip 2011, p.88-89, adapted) speak then be read than not-be '(If it is about) speaking, then yes. (If it is about) reading, then no.'

Lee (USC) Focus Intervention Effects NACCL 34 3

Focus Intervention Effects Analysis Two predictions Remarks
00000000 0000000 0000000 00000

Concluding remarks

Open issues:

- On Focus Intervention Effects
 - → Both FIE in verb doubling constructions and in wh-questions is syntactic by nature, rather than semantic (Li and Cheung 2012)
- On the locality of head movement
 - → verb doubling constructions are not intervened by heads
- (36) 買佢係想買呢本書,不過...

Maai keoi hai soeng maai ni-bun syu, batgwo ...
buy s/he cop want buy this-cl book but
'S/he wants to BUY this book (but s/he won't have time to READ it).'

• The Head Movement Constraint (Travis 1984) that forbids head movement skipping heads should be relaxed.

Lee (USQ) ____ Focus Intervention Effects NACCL 34 31/36

Focus Intervention Effects Analysis Two predictions Remarks References

OOOOOOO OOOOOO OOOOOO

References I

- Badan, Linda. 2007. "High and low periphery: a comparison between Italian and Chinese." PhD diss., Universita' Degli Studi di Padova.
- Beck, Sigrid. 1996. "Wh-constructions and transparent Logical Form." PhD diss., Universität Tübingen.
- Beck, Sigrid, and Shin-Sook Kim. 1997. "On WH- and operator scope in Korean." *Journal of East Asian Linguistics* 6:339–384.
- Cheng, Lisa Lai-Shen, and Luis Vicente. 2013. "Verb doubling in Mandarin Chinese." *Journal of East Asian Linguistics* 22 (1): 1–37.
- Cheung, Lawrence Yam-Leung. 2009. "Dislocation focus construction in Chinese." *Journal of East Asian Linguistics* 18 (3): 197–232.
- Chomsky, Noam. 2000. "Minimalist inquiries: the framework." In *Step by step: Essays on minimalist syntax in honor of Howard Lasnik,* edited by Roger Martin, David Michaels, and Juan Uriagereka, 89–156. Cambridge, MA: MIT Press.

Lee (USC) Focus Intervention Effects NACCL 34 32

ttion Focus Intervention Effects Analysis Two predictions Remarks **References**

References II

- Chomsky, Noam. 2001. "Derivation by phase." In *Ken Hale: a life in language*, edited by Michael Kenstowicz, 1–52. Cambridge, MA: MIT Press.
- Huang, C.-T. James. 1982. "Logical relations in Chinese and the theory of grammar." PhD diss., Massachusetts Institute of Technology.
- Jackendoff, Ray. 1997. "Twistin' the night away." Language 73 (3): 534-559.
- Kim, Shin-Sook. 2006. "Questions, Focus, and Intervention Effects." In *Harvard Studies in Korean Linguistics XI*, edited by Susumu Kuno, 520–533. 2. Harvard-Yenching Institute.
- Lai, Jackie Yan-ki. 2019. "Parallel copying in dislocation copying: evidence from Cantonese." *Journal of East Asian Linguistics* 3:243–277.
- Lee, Tommy Tsz-Ming. 2017. "Defocalization in Cantonese right dislocation." *Gengo Kenkyu* 152:59–87.

 4 □ ♭ 4 □ ♭ 4 □ ♭ 4 □ ♭ 4 □ ♭ 4 □ ♭ 4 □ ♭ 3 □ ♥ 0 ○

 Lee (USC)
 Focus Intervention Effects
 NACCL 34
 33/36

Focus Intervention Effects Analysis Two predictions Remarks References

OOOOOOOO OOOOOO OOOOOO

References III

- Lee, Tommy Tsz-Ming. 2021. "Asymmetries in doubling and Cyclic Linearization." *Journal of East Asian Linguistics* 30 (2): 109–139.
- Lee, Tommy Tsz-Ming. 2022. "Towards the unity of movement: implications from verb movement in Cantonese." PhD diss., University of Southern California.
- Li, Haoze, and Candice Chi-Hang Cheung. 2012. "The syntactic analysis of focus intervention effects in Mandarin." *Linguistic Sciences* 11 (2): 113–125.
- Li, Haoze, and Candice Chi-Hang Cheung. 2015. "Focus intervention effects in Mandarin multiple wh-questions." *Journal of East Asian Linguistics* 24 (4): 361–382.
- Liu, Danqing. 2004. "Identical topics: a more characteristic property of topic prominent." *Journal of Chinese Linguistics* 32 (1): 20–64.
- Marantz, Alec. 1997. "No Escape from Syntax: Don't Try Morphological Analysis in the Privacy of your own Lexicon." In *University of Pennsylvania Working Papers in Linguistics*, edited by Alexis Dimitriadis, Laura Siegel, Clarissa Surek-Clark, and Alexander Williams, 201–225. University of Pennsylvania.

Lee (USC) Focus Intervention Effects NACCL 34 3

Focus Intervention Effects Analysis Two predictions Remarks References

OOOOOOOO OOOOOO OOOOOO

References IV

- Matthews, Stephen, and Virginia Yip. 2011. *Cantonese: A Comprehensive Grammar.* 2nd. London: Routledge.
- Matushansky, Ora. 2006. "Head movement in linguistic theory." *Linguistic Inquiry* 37 (1): 69–109.
- Rochemont, Michael. 1986. *Focus in generative grammar*. Amsterdam, The Netherlands: John Benjamins Publishing Company.
- Ross, John. 1967. "Constraints on variables in syntax." PhD diss., Massachusetts Institute of Technology.
- Shi, Dingxu. 1994. "The Nature of Chinese Wh-Questions." *Natural Language and Linguistic Theory* 12 (2): 301–334.
- Soh, Hooi Ling. 2005. "Wh-in-Situ in Mandarin Chinese." Linguistic Inquiry 36 (1): 143–155.

Focus Intervention Effects

Focus Intervention Effects Analysis Two predictions Remarks References

References V

- Tang, Sze-Wing. 2002. "Focus and dak in Cantonese." *Journal of Chinese Linguistics* 30 (2): 266–309.
- Travis, Lisa. 1984. "Parameters and Effects of Word Order Variation." PhD diss., Massachusetts Institute of Technology.
- Vicente, Luis. 2007. "The Syntax of Heads and Phrases: A Study of Verb (Phrase) Fronting." PhD diss., Universiteit Leiden.
- Wei, Wei Haley, and Yen-Hui Audrey Li. 2018. "Adverbial Clauses in Mandarin Chinese." *Linguistic Analysis* 1-2:163–330.
- Yang, Barry Chung-Yu. 2008. "Intervention effects and the covert component of grammar." PhD diss., National Tsing Hua University, Hsinchu.
- Yang, Barry Chung-Yu. 2012. "Intervention effects and wh-construals." *Journal of East Asian Linguistics* 21 (1): 43–87.

Focus Intervention Effects

ৰ 🗇 সংৰক্তি কৰি হৈছে সংৰক্তি 💆 🔊 প্ৰ 🖰 সংৰক্তি কৰি হৈছে সংৰক্তি