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Concord as Syntactic Agreement: Evidence from Intervention Effects Ka-Fai Yip

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1. Background & research questions

- Quantifier Concord
 - □ Negative Concord (Zeijlstra 2004)
 - ☐ Interrogative Concord (*wh*-movement) ☐ Existential Concord (Kratzer 2005)
 - ☐ Universal Concord?
- Research questions
 - □ Do natural languages have Universal Concord? (Yes)
 - □ What is the nature of the concord relation? (Agree)

2. Data: a puzzle of *-can* and \forall

- Cantonese verbal suffix -can (P. Lee 2017: affixal quantifier)
- Only occurs in contexts with universal reading.
- ☐ Can co-occur with universal quantifiers.
- (1) Aaming (cici / *jau jat ci) jam-can naai] dou toutung
 Ming every.time have one time drink-CAN milk DOU stomachache
 'Every time Ming drank milk, his tummy felt odd.' / *'There was once...'
- (2) [(mui go /* jau gei go) keoi heoi-can ge gwokgaa] dou jau siwai every CL have several CL 3SG go-CAN GE country DOU have protest 'For every country he went, there were protests.'/ * 'For some of the countries...'
- (P. Lee 2017: affixal quantifier) The problem of treating -can as a universal quantifier:
 - □ Vacuous quantification bans co-occurrence with ∀s:
 - (3) *[mui go keoi cici heoi ge gwokgaa] dou jau siwai every CL 3SG every.time go-CAN GE country DOU have protest
 - ▶ The problem of treating -can as a variable:
 - □ Ungrammaticality of -can in existential contexts cannot be explained.
 - ▶ A successful proposal should capture the occurrence of ∀s and the non-occurrence of ∃s in -can clauses.

3. Syntactic proposal: [∀] Agree

CP/TP/DP

AspP

VP

- ▶ Agree with [∀] features
 - \Box -can bears an uninterpretable universal feature [*u* \forall]:
 - Universal quantifiers bear an interpretable
 - counterpart $[i\forall]$;

 Upward Agree. (Zeijlstra 2012)
- ▶ Resolving the paradox:
 - □ [uV] on -can must be checked by [iV] on quantifiers \rightarrow delete [uV] before reaching LF \rightarrow -can is not regarded as a quantifier \rightarrow occurrence of Vs

covert ∀ / everv

time | every

□ [uV] on -can cannot be checked by [i∃] → non-occurrence of ∃s

4.1. An argument on [u∀]

- 'Almost' test
 - ☐ The constituent following *almost* must have quantificational force:
- - □ -Can does not have any quantificational force, contrast with every time:

4.2. Arguments on covert ∀

- 'Almost' test
- □ -Can clauses have quantificational force
- (6) Caa-m-do ne, ∀ keoi ceot-can gaai zau wui dit cin almost TOP 3SG go-CAN out then will fall money 'It is almost the case that every time he went out, he lost money.'
- ▶ Aspectual verb raising (T. Lee *to appear*)
 - ☐ May occur before subjects iff the subjects are quantificational:
- - □ -Can clauses have quantificational force:
- (8) hoici ∀ keoi daa-can gei aamaa zau wui faatnau begin 3SG play-CAN video.game mum then will become.mad 'It begins to be the case that every time he played video games, his mum got angry.'

4.3. Arguments on Agree: Intervention effects

- Rizzi (2001, 2004): Feature-based Relativized Minimality
 - □ Locality condition on syntactic dependencies
 - $\hfill \square$ Quantificational feature: wh , neg , measure, focus ... [Qu]
- (9) $keoi \ [\forall / cici \ mou \ daai(*-can) \ syu] \ dou \ wui \ bei \ jan \ naau$ 3SG every.time NEG bring-CAN book DOU will get person scold 'Every time he hadn't brought the book, he got scolded.'
- (10) [∀/ cici <u>dak</u> keoi jung(*-can) gaan fong] dou hou zing
 every.time only 3SG use-CAN CL room DOU very quiet
 'Every time that he was the only one who was using the room, the room was quiet.'
- (11) keoi [singjat_{|∀|} / *jauzansi_[∃] tai-can syu] dou fanzoek 3SG always sometimes read-CAN book DOU fall.asleep 'He always/*sometimes falls asleep while reading books.'

- (12) [∀/ cici ziuzou jam(-can) naai] dou toutung every.time morning drink-CAN milk DOU stomachache 'Every time (I) drank milk in the morning, my tummy felt odd.'
- (13) [∀/ cici <u>haideitit-dou</u> king(-can) dinwaa] dou bei jan naau every.time at subway-LOC talk-CAN telephone DOU get person scold 'Every time (I) had a call on the subway, I got scolded.'
- (14) [∀/ mouleon bingo lai(-can)] keoi dou naau no.matter who come-CAN 3SG DOU scold 'He scolds at whoever comes.'

Note: Chinese nominal whs have no inherent quantificational force (Tsai 1994 a.m.o.)

5. Concluding remarks

▶ Complete the picture of Quantifier Concord



Also consider: Mandarin mei ... dou as an instance of Universal Concord (Dong 2009), with mei carrying a uninterpretable quantifier feature. Yet, mei has quantificational force. Treating mei ... dou as | \mathbf{V}| Agree may weaken the notion of interpretability.

- Beyond the nominal domain
 - ☐ Kratzer (2005): D-quantifiers can be concord elements
- ☐ A(ffixal)-quantifiers can also be concord elements (e.g. -can)
- How about A(dverbial)-quantifiers?

6. Selected references • Dong, Hongyuan. 2009. Issues in the semantics of Mandarin questions. Doctoral Dissertation, Cornell University. • Kratzer, Angelika. 2005. Indefinites and the operators they depend on: From Japanese to Salish. In Gregory Carlson and Francis Jeffry Pelletier, eds., Reference and quantification: The Partee effect, 113–142. Stanford, CA: CSLI Publications. • Lee, Tommy Tsz-Ming. To appear. Head movement with semantic effects: Aspectual verb raising in Cantonese. In Proceedings of LSA-93. • Rizzi, Luigi. 2004. Locality and left periphery. In Adriana Belletti, ed., Structures and beyond: The cartography of syntactic structures, 223-251. Oxford: Oxford University Press. • Zeijlstra, Hedde. 2012. There is only one way to agree. The Linguistic Review 29(3): 491-539.