

**The encoding of finiteness in Chinese\***

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**1. Introduction**

Since the *Panel on tense and finiteness in Chinese* at *The 11th International Workshop on Theoretical East Asian Linguistics* (TEAL-11, Academia Sinica, Taipei, Taiwan, June 3-4, 2017), the controversial issue whether and how Chinese encodes Tense and whether Chinese has a finite/non-finite distinction (cf. a.o. Tang Ting-chi 2000, Hu et al. 2001, Lin Jo-wang 2010, Law 2017) has been revived (cf. Niina Zhang to appear). Based on Paul (2017b, 2018), the present talk discusses the different factors that need to be taken into account when examining finiteness in Chinese, concentrating on root clauses (something rarely done). For a critical overview of numerous studies on finiteness in clausal complements, cf. the appendix.

*My claim for Mandarin Chinese*, a language with a large array of C-heads in root contexts: Chinese is basically like English, *modulo* the lack of tense-related morphology. A sentence is finite when it is tensed (also cf. Audrey Li (2017b)). In case the temporal interpretation cannot be determined TP-internally, SFPs realizing (the lower subprojection of) Low C (*le, ne, láizhe*) in Chinese may check the [tense] feature in TP, resulting in a finite sentence.

- (1) Split CP (head-final) in Chinese (Paul 2009, 2014; updated as in Paul & Pan 2017)  
TP < [<sub>LowC</sub> {*le, ne, láizhe*} / {*éryǐ* 'only'}] < Force < Attitude
- (2a) Rizzi's (1997) split CP (updated as in Rizzi & Bocci 2017)  
[Force [Top\* [Int [Top\* [Foc [Top\* [Mod [Top\* [Q<sub>emb</sub> [**Fin** [IP .....]]]]]]]]]]].
- (2b) Italian: Force *che* 'that' ..... (TopP) Q<sub>emb</sub> *se* 'if' .....(TopP) ... Fin *di*

However, the reverse is NOT true, i.e. an overt low C is *not* obligatory for a sentence to be finite, given the many root and non-root clauses that are well-formed without any SFP, showing that the [tense] feature can be checked TP-internally (*pace* N. Zhang (to appear) who concludes from the unacceptability of low C in complement clauses to their non-finite nature). Following Pan & Paul (2016), Paul & Pan (2017), SFPs *qua* C-heads are directly merged in the periphery, not raised from T° to C (*contra* Tang Sze-Wing 1998).

**2. Short digression: Valuation of Infl by Comp in English (Ritter & Wiltschko 2014)**

The imperative in English is characterized by the obligatory absence of morphological tense:

- (3) (You) be/\*are quiet! (Ritter & Wiltschko 2014: 1367ff.)

The presence of structure (SpecIP for subject) in the absence of an overt realization of Infl confirms the Universal Spine hypothesis that is independent of the presence of overt material. Imperative force in Comp values Infl as [+coincidence], a temporal content: imperatives instruct the addressee to make it the case that the event situation coincides with the plan set (represented as an abstract argument in SpecCP). This relation is mediated by the pronominal situation argument *Pro-Sit* in SpecIP which takes as its antecedent the plan set in CP.

The past tense marking in English counterfactuals is an instance of *fake* marking, i.e. it is not associated with temporal force:

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\* Many thanks to Horst Lohnstein, Mai Ziyin, Victor Junnan Pan and Sun Hongyuan for discussion and data.

- (4a) If I had a car, I would drive to the store  
 (4b) [CP COMP [Count.Fact.] [IP INFL[-coin] [VP ev-sit V]]]  
 (5a) If I had a car right now, I would drive to the store.  
 (5b) \*I had a car right now. (R & W 2014: 1370ff.)

The absence of *temporal* force in counterfactuals follows from the assumption that past tense marking on the verb does not value Infl here. Instead, Infl is valued by Comp as [-coin], more precisely by the abstract evaluation situation argument. In counterfactuals, the event situation is asserted to not coincide with the evaluation situation. Given that Infl is valued by C in counterfactuals, the auxiliary may rise to C (cf. (6)), a movement excluded in *realis* conditionals with past marking (cf. (7b)), where the past marking does have temporal force. In *realis* contexts, the (same) C *if* does not value Infl, but Infl is valued by the verb morphology.

- (6) Had she arrived, I would not have left. (R & W's (63))  
 (7a) If she really arrived last night, she will be here today.  
 (7b) \*Has she really arrived, she will be here today.  
 (7c) \*If she really arrived right now, she will be here today. (R & W's (64a-c))

In the absence of substantive content in Infl (as in the English imperative), Infl may be valued by the substantive content associated with Comp. This is important for my purpose here because it shows that the same C may differ in whether it values Infl for [+coin] or not. I would like to extend this to Chinese where the same low C *le* differs in whether it values Infl for [+coin] or not. This valuation by temporal content, hence by *tense*, in turn is taken as making the sentence finite, as in Indo-European languages.

This is different from Wiltschko's (2017) own proposal for Chinese: Mandarin SFPs are the functional equivalent of finiteness marking in Indo-European languages. More precisely, Chinese finiteness is said to be construed in the topmost GroundP involving the speech act participants. This can, however, not be correct, given that the SFPs realizing this GroundP correspond to the SFPs realizing AttP in the split CP (cf. (1) above), which - along with Force SFPs - are excluded from non-root contexts, including finite embedded clauses (cf. a.o. Pan & Paul 2016, Paul & Pan 2017). In other words, Chinese associates *temporal* content with Infl/T°, like English (also cf. Y.-H. Audrey Li 2017b), not *participant* content, like Blackfoot.

### 3. Temporal interpretation in Chinese

Each sentence in Mandarin Chinese can be assigned a temporal interpretation. In order to tease out the contributing factors, Lin Jo-wang (2006, 2012), on the one hand, and Sybesma (2007), Sun Hongyuan (2014), on the other, examine sentences with bare predicates, i.e. sentences without any temporal adverbs, aspect marking, SFPs. (Note that these studies do neither explicitly state the absence of SFPs in their definition of bare predicates nor do they address the role SFPs might play in the temporal interpretation of bare predicates. Cf. Lin Jo-wang (2003: §4.3) for an attempt to determine the temporal semantics of the low C *le*.)

For the purpose of the present talk, Sun Hongyuan's (2014) approach based on the dichotomy *stative* vs *eventive* predicates is adopted here (although it is not without problems, either). (S.Y. Chen (2017), S.Y. Chen & Husband (2018)) confirm the future/non-future distinction.)

According to Sun Hongyuan (2014, 2017) Mandarin has a TP projection. It has a covert tense NONFUT restricting the temporal reference of bare root clauses to present tense (including generic reading) and past tense. By contrast, future tense requires a modal auxiliary (e.g. *hui* 'will'). Note that *bare* sentences with a future interpretation are no counterexamples, for they do not assert future *eventualities*, but a *plan* (as evidenced by required agent control, cf. (10a) vs (10b)):

- (8) ({Xiànzài/ qùnián}) Lùlù zhù zài jiānádà.  
now / last.year Lulu live in Canada  
'Lulu lives in Canada now / Lulu lived in Canada last year.'
- (9a) {(Jīntiān/ zuótiān)} Lùlù hěn jǔsàng.  
today / yesterday Lulu very frustrated  
'Lulu is frustrated today/ was frustrated yesterday.'
- (9b) Míngtiān Lùlù \*(jiānghuì) hěn jǔsàng. (9c) Xiàzhōu Lùlù hěn máng  
tomorrow Lulu will very frustrated next.week Lulu very busy  
'Lulu will be frustrated tomorrow.' 'Next week, Lulu will be very busy.'
- (10a) Zhōngguó duì míngtiān \*({huì/néng}) yíng.  
China team tomorrow will/can win  
'The Chinese team {will/can} win/\*wins tomorrow.'
- (10b) Zhōngguó duì míngtiān bǎisài.  
China team tomorrow play  
'The Chinese team plays tomorrow.'

Temporal interpretation of bare predicates is a function of the predicate's semantic type:  
*state* vs *eventive* predicate (activity, achievement, accomplishment) (Sun 2014: 54-55):

- (i) Sentences with a bare state yield present tense stative readings: no overt aspect marking is required for a past tense interpretation in the presence of a temporal adverb (cf. (9a) above))
- (ii) Sentences with a bare eventive predicate only allow a habitual reading:

- (11) Tā dǎ wǎngqiú / chōu yān.  
3SG hit tennis / inhale smoke  
'She plays tennis/smokes.' (habitual reading, not: 'She is playing tennis/smoking.')

For the *episodic* reading of *eventive* predicates, an overt aspect is required, the presence of a temporal adverb on its own is not sufficient:

- (12a) Cǐ-shí-cǐ-kè tā \*(zài) dǎ wǎngqiú/ chōu yān.  
this-time-this moment 3SG PROGR hit tennis / inhale smoke  
'Right now, she is playing tennis/smoking.'
- (12b) Shàng ge yuè tā kàn\*(-le) "sān guó yǎnyì".  
last CL month 3SG see -PERF 3 kingdom romance  
'Last month, he read the *Romance of the three kingdoms*.' (Sun Hongyuan 2014: 50)
- (12c) Wǒ jiàndào Lìchuān de shíhou, tā \*(zài) huà yī fú huà.  
1SG see Lichuan SUB time 3SG PROGR paint 1 CL picture  
'When I saw Lichuan, she was painting a picture.' (Sun Hongyuan 2014: 254)

Accordingly, aspect needs to be *explicitly* marked in Chinese, except for stative predicates. Cf. already Kong Lingda (1994: 436; III) who made this observation for psych predicates (*xīhuān* 'like', *tǎoyàn* 'hate, dislike') and for equative sentences with the copula *shì* 'be':

- (13a) Tā xǐhuān yóuyǒng.                      (13b) Wǒ shì lǎoshī.  
 3SG like swim                                      1SG be teacher  
 ‘She likes swimming.’                              ‘I’m a teacher.’

#### 4. Finite sentences without any low C in Chinese

Chinese being a language *with* (covert) tense, the finite/non-finite nature of a clause can be associated with tense, as is the standard assumption for Indo-European languages.

While it is true that not many sentences in Mandarin Chinese consist of a bare predicate only, there is a large array of well-formed sentences displaying aspect marking, temporal adverbs, auxiliaries, negation etc. *without* any overt low C. These sentences will show that finiteness often does not involve any overt head in the CP of root clauses, on a par with e.g. English.

*Selection of cases based on Kong Lingda (1994) (partly illustrated with additional data)*

(I) Stative predicates can be bare: they have a present tense interpretation by default, and a past tense interpretation in the presence of a past time adverb (cf. section 3 above, (8), (9a)).

(II) Eventive predicates (activities, accomplishments and achievements)

Eventive predicates may be bare only under a habitual reading (cf. (11) above). Otherwise, they require overt aspect marking and/or auxiliaries, temporal adverbs, negation. (Depending on the semantics of the predicate, adverbs may be required for a habitual reading.)

- (14a) Mǎlì {hěn shǎo/jīngcháng} {kū/xiào}.  
 Mary very little/ often cry/smile  
 ‘Mary rarely/often cries/smiles.’

- (14b) Zhōngguó duì zǒng shū/yìng.  
 China team always lose/win  
 ‘The Chinese team loses/wins all the time.’ (Sun Hongyuan 2014: 51)

- (14c) Tā [yī-tiān-dào -wǎn] kàn diànyǐng. (Kong 1994: 436)  
 3SG 1 -day-arrive-late watch movie  
 ‘He watches films from dawn to night.’

- (14d) Tā jīngcháng kàn diànyǐng/mǎi zázhi / xǐ yīfú.  
 3SG often watch movie/ buy magazine/ wash clothes  
 ‘He often watches movies/buys magazines/does the laundry.’

Auxiliaries:

- (15a) Tā yīnggāi mǎi zázhi / xǐ yīfú.  
 3SG must buy magazine/ wash clothes  
 ‘He must buy magazines/do the laundry.’

- (15b) Tā zài kàn diànyǐng/ mǎi zázhi / xǐ yīfú / chī fàn.  
 3SG PROGR watch movie / buy magazine/ wash clothes/ eat food  
 ‘He is watching a movie/buying magazines/doing the laundry/eating.’

Aspect suffixes:

- (16) Tā chī-le dúyào / làn píngguǒ/ liǎng wǎn miàn.  
 3SG eat-PERF poison/ rotten apple / 2 bowl noodles  
 ‘She took poison/ate rotten apples/ate 2 bowls of noodles.’

- (17a) Tāmen lí -le hūn. (17b) Tā pò -le chǎn.  
 3SG separate-PERF marriage 3SG break-PERF product  
 ‘They got divorced.’ ‘He went bankrupt.’
- (18) Tā chū-guo chāi.  
 3SG go.out-EXP errand  
 ‘She has been on business trips before.’
- (19) Tā yī-dà -zǎo jiù hē -le chá. (Kong 1994: 437)  
 3SG 1 -big-early then drink-PERF tea  
 ‘She has already had tea very early in the morning.’

Negation:

- (20) Wǒ bù jìdé tā.  
 1SG NEG remember 3SG  
 ‘I don’t remember him.’
- (21) Tā bù chū chāi / bù hē kāfēi.  
 3SG NEG go.out errand / NEG drink coffee  
 ‘He doesn’t (want to) go on business trips/ drink coffee.’
- (22) Tā méi chū chāi / méi hē kāfēi / xǐ yīfú.  
 3SG NEG go.out errand/ NEG drink coffee/ wash clothes  
 ‘She didn’t go on a business trip/drink coffee/do the laundry.’
- (23) Tāmen méi xiào / méi shū / méi dào.  
 3PL NEG laugh/ NEG lose / NEG arrive  
 ‘They didn’t laugh/lose/arrive.’

## 5. Sentences with a bare predicate and with our without C

So far, there exists no satisfying analysis for the semantic import of the low C *le*, for which Li & Thompson (1981: 238-318) provide 60 pages of examples. (This wealth of data directly challenges the reductive claims made in Tsai (2008), Tang & Lee (2009), Soh Hooi-ling (2009) a.o.) Li & Thompson’s (1981: 238) label “currently relevant state” is adopted here, for it captures best the admittedly very minimal common denominator for the different cases of *le*, i.e. the fact that *le* is often required to “close off” the sentence and that (in the absence of any other explicit reference time) it relates the event to the speech time, which might, but need not, induce an interpretation of the situation as new, i.e. as not having hold prior to the utterance time. (Also cf. Lin 2003 and the brief overview plus references in Paul 2015: 7.2.1.2).

### 5.1. Cases where the low C *le* is required to “close off” a sentence with a bare predicate

It is well-known that the low C *le* may be required to render a sentence “complete”, i.e. to make it acceptable as an independent sentence (cf. a.o. Kong Lingda 1994, Huang Nansong 1994, Tang & Lee 2000, Tsai 2008). Based on Kong Lingda and supplemented by additional data, the “obligatoriness” of *le* as the semantically most “neutral” low C is examined here, taking into account the possible temporal interpretations of the bare predicate.

Recall that eventive predicates can be bare only under a habitual reading. In the absence of any *overt* TP-internal marking (aspect, negation, auxiliaries etc.), the low C *le* is obligatory to obtain a well-formed independent sentence with a past tense interpretation:



(N.B. Bare activity predicates are acceptable under a progressive reading when answering a question such as ‘What are you doing? I’m doing the laundry/writing letters’ etc.)

*Interim summary:* The obligatory presence of the low C *le* (for a sentence with a bare predicate) holds for the past tense interpretation, not for the habitual or (future) plan interpretation. In the absence of any overt marking (aspect, auxiliaries, negation, temporal adverbs), the low C *le* values [tense] and makes the sentence finite.

### 5.2. Low C *le* is not obligatory (TP is independently well-formed)

First illustrated for stative predicates (acceptable in their bare form, cf. section 3 above):

(32) Tā yǐqián shì shùxué lǎoshī , xiànzài shì yīngwén lǎoshī (le).  
3SG formerly be math teacher now be English teacher SFP  
‘He used to be a math teacher, now he is an English teacher.’

(33) Tā yǐqián xìng Zhāng, xiànzài xìng Lǐ (le).  
3SG formerly call.by.surname Zhang now call.by.surname Li SFP  
‘Her family name used to be Zhang, now it is Li.’

Second, illustrated for atelic predicates with overt aspect marking:

(34a) Wǒ zài zhèr zhù-le wǔ nián.  
1SG at here live-PERF 5 year  
‘I lived here for 5 years.’

(34b) Wǒ zài zhèr zhù-le wǔ nián le.  
1SG at here live-PERF 5 year SFP  
‘I have lived here for 5 years.’

According to Zhu Dexi (1982: 209), (34a) implies my no longer living here; he states explicitly that (34a) means the same as *Wǒ zài zhèr zhù-guò wǔ nián*. (By contrast, Lin Jo-wang (2003: 280) notes two interpretations for (34a), the living here either still holding or not.) With the low C *le* present as in (34b), there is only one reading for Zhu Dexi, i.e. ‘living here’ still holds at speech time (*idem* for Lin Jo-wang 2003).

## 6. Conclusion

Chinese is not a tenseless language, but it has (covert) *Tense* with a [non-future] value, resulting in past or present tense interpretation (including habitual reading) for bare predicates in root clauses. The subject is hosted by TP/IP, i.e. a separate projection *above* negation and AspP. The majority of clauses are tensed, hence finite, *without* a low C.

Whether a low C is obligatory for the finiteness of a sentence i.e. whether it is required for checking the [tense] feature depends on whether the intended temporal interpretation can be obtained TP-internally. This in turn depends on *inter alia* the (semantic) type of the predicate (stative vs eventive) and its telic vs atelic nature.

When a C-head is present, the sentence is necessarily finite. For higher Cs (Force and Attitude) this is simply a matter of s-selection; for low Cs, we have seen that the matter is more complicated and depends on the TP itself. Importantly, the relation between the presence of a C and the finiteness of the proposition involved only works one way, i.e. the unacceptability of an overt low C does not allow to deduce the non-finite character of the sentence at hand.

Concerning the finiteness of embedded clauses, an overt subject is only permitted in a finite clause, i.e. the presence of an overt subject signals finiteness (*contra* Hu et al. 2001, Niina Zhang (to appear), among others, see appendix).

**APPENDIX: Previous studies on finiteness in embedded clauses and on tense**

1. Lin Jo-wang (2003, 2006, 2012, 2017) on Tense (also cf. Smith & Erbaugh 2005)

For a critical appraisal of Lin Jo-wang (2006), cf. a.o. Li Nan (2016: sections 2.1. and 2.2)

There is no TP in Chinese and Aspect plays the role that Tense plays in a tensed language; every sentence is headed by (imperfective or perfective) Aspect (Lin Jo-W. 2017; 2012: 681).

The temporal interpretation of Chinese sentences can be determined by default aspect (for bare predicates), overt aspectual markers, temporal adverbs, and pragmatic reasoning.

*Homogeneous* situations (atelic predicates: states and activities) have a default *imperfective* aspect and *present* time interpretation (unless overridden by a temporal adverb or a contextual topic time)

*Heterogeneous* situations (achievements and accomplishments) have a default *perfective* aspect and the *past* interpretation.

Problems: A sentence cannot be an AspP. Irrespective of the label chosen (TP, IP), there is ample evidence for a distinct projection with an always covert head (cf. Ernst 1994, Law & Ndayiragije 2017) *above* AspP, ModalP and negation hosting the subject DP. The claimed Spec-Head relation between subject DP and (any) highest head in the extended verbal projection is invalidated by the position of sentential and VP-level adverbs (e.g. *xiǎnrán* ‘evidently’, *hái* ‘still’) below the subject and above negation, auxiliaries etc. and by the internal TopP below the subject and above negation, auxiliaries etc. (cf. Paul (2015: 20-25) for further discussion). (Lin (2006: 3) still assumes: [CP..[IP [ModalP ...[AspP .... [VP....]]]])

Lin’s default aspect approach predicts an *ongoing* (present) reading for a bare activity verb, but in general only the habitual (present) reading is available here (cf. (11) above).

Bare achievement predicates such as *dǎpò* ‘break’ are predicted by Lin to yield a past tense interpretation, but many speakers require an *overt* perfective aspect suffix *-le* here:

- (i) Ta dǎpò\*(-le) yī ge huāpíng/ wǒ de huāpíng/nèi ge huāpíng.  
3SG break-PERF 1 CL vase / 1SG SUB vase that CL vase  
‘He broke a vase/my vase/that vase.’

2. Tang & Lee (2000: 17) posit the SFP *le* as an overt past tense marker in *Tense* (plus T-to-C movement in a head-initial CP followed by movement of TP to SpecCP to derive the correct linear order; cf. Pan & Paul (2016) for problems with this Kaynean derivation). In the absence of *le*, they posit a covert element in T° which is either bound by a tense or a by focus operator [sic!] in C, as stated in their *Generalized Anchoring Principle*: “Every sentence must be either tensed or focused at the LF interface level”.

Problems: A general equation between *le* and past tense is *not* borne out by the data (e.g. *Xià yǔ \*(le)*). The well-formedness of bare predicates in root clauses is glossed over, the conditions for covert T° are not spelt out. No precise model capturing the temporal interpretation in Chinese is proposed, and nothing is said about the link between tense and finiteness.

3. Tsai (2008: 675): “Based on an insight from S[hizhe]. Huang’s (2005) plurality analysis of eventuality predicates, we propose to analyze tense-anchoring as a process of spelling out an underlying event argument by a variety of morphosyntactic means. This process may involve event coordination, event subordination, event modification, event quantification, or verb raising to v/T.” As for the SFP *le*, it is “an inchoative/evidential marker in the left periphery in Rizzi’s (1997) sense.” (Tsai 2008: 687).

Main problem in Tsai (2008): his demonstration is based on the “incompleteness” of the root clauses ‘S V-*zhe* (DP)’, with *-zhe* as alleged overt “aspect”. However, *-zhe* is precisely *not* an aspectual suffix (“durative”) on a par with *-le*, *-guo*, but *-zhe* encodes the *dependent* nature of the verbal projection (cf. Djamouri & Paul (2011; 2018); hence its preponderance in *non-root* contexts (e.g. as adjunct or as complement of a higher head, which can be an *aspectual* head).



### 3. Huang (2017) on Hu et al. (2001)

Hu, Jianhua/Pan, Haihua/Xu, Liejiong (2001) question the existence of a finiteness distinction in Chinese *inter alia* by providing examples of overt subjects in controlled complements. However, Huang (2017) convincingly invalidates Hu et al. (2001) and shows that if acceptable at all, overt subjects are only permitted in the case of verbs that besides selecting non-finite control complements can likewise select a finite proposition (also cf. Ussery/Ding/Liu 2016): *zhǔnbèi* ‘to prepare’, *jìhuà* ‘to plan’, *juédìng* ‘to decide’, *quàn* ‘to persuade, urge’, *bīpò* ‘force’. Exclusive control verbs never allow for an overt subject: *kāishǐ* ‘to begin’, *jìxù* ‘to continue’, *tíngzhǐ* ‘to stop’, *shèfǎ* ‘try’.

- (ii) Wǒ jiào Zhāngsān [jīntiān xiàwǔ tā wúlùn rúhé dōu yào lái]  
1SG tell Zhangsan today afternoon 3SG in.any.case all need come  
‘I told Zhangsan that he must come this afternoon whatever happens.’
- (iii) Wǒ dǎsuàn [[tiān hēi yǐhòu] wǒmen yìqǐ qù]  
1SG plan sky black after 1PL together go  
‘I plan that we go together after it gets dark.’  
(Hu et al. 2001: 1132, (32a-b); their translations (!), emphasis mine)

The residual data by Hu et al. (2001) do not bear further scrutiny; they are either rejected as unacceptable by other native speakers or at best marginally accepted with a different parsing, where the alleged subject NP *wǒ/nǐ yīgerén* ‘I/you alone’ in fact is an adjunct NP:

- (iv) ??Wǒ zhǔnbèi (Hu et al. (2001 : 1131, (30a), their translation, bracketing mine)  
1SG prepare  
[PRO [FP[AdjNP míngtiān xiàwǔ] [FP[adjPostP tiān hēi yǐhòu] [vP[AdjNP wǒ yīgerén] [vP lái]]]]]  
tomorrow aftern. sky black after 1SG alone come  
‘I plan to come alone tomorrow afternoon after it gets dark.’  
(judged as marginal in Ussery et al. (2016) and rejected by many native speakers)
- (v) Nǐ zuìhǎo shèfǎ (He Yuyin (2017)  
2SG best try  
[PRO [jintian xiàwǔ] [...]] [vP AdjNP { nǐ yīgerén/ yīgerén }/\*nǐ lái ]]  
today aftern. 2SG alone / alone 2SG come  
‘You had better try to come by yourself this afternoon.’
- (vi) \*Xuéshēng zhǔnbèi [míngtiān xiàwǔ tiān hēi yǐhòu] tāmen lái]  
student prepare tomorrow aftern. sky black after 3PL come  
(Intended: ‘The students plan to come tomorrow afternoon after it gets dark.’)

### 4. Grano (2012, 2015, 2017)

Grano (2012, 2015) tries to argue against a finiteness distinction in Chinese; his stand is less clear in Grano (2017: 259): “[...] the contrasts identified by Lin [Tzong-hong] can all be adequately accounted for without appealing to Tense. The primary conclusion then is that finiteness contrasts do not constitute evidence for Tense in Mandarin.”

(N.B. Lin Tzong-hong Jonah (2011, 2015) is in favour of a finiteness distinction and a TP node in Chinese, but uses unsound arguments; cf. Pan & Paul (2014) for discussion).

Grano claims that the differences in size (vP for controlled complements vs CP elsewhere) can account for differences so far attributed to non-finite vs. finite clausal complements. However, Ussery et al. (2016) and Audrey Y.-H. Li (2017b) demonstrate that

this distinction in mere size is not sufficient. Finally, Grano bases his claims on the controversial data provided in Hu et al. (2001), invalidated by C.-T. J. Huang (2017).

#### 5. Niina Zhang (to appear in *Linguistics*)

Niina Zhang concentrates on the finiteness issue of complement clauses and argues in favour of a [ $\pm$ finite] distinction in Chinese. She confirms (i) the C status of SFPs and (ii) the interaction of Low C with TP-internal material (as described in Paul (2009) and later works, some with Victor Junnan Pan). She does not take into account the issue of [ $\pm$ tense].

Her claim: When a clause does not allow for a low C *ne, le, láizhe*, then it is [-finite].

(Note that she uses the label “sentence-final aspect particles” (SFAP) for low C.)

“I advocate the view that finite clauses exhibit speaker-oriented properties, whereas non-finite ones do not; instead, non-finite clauses exhibit higher-clause-oriented properties. The contrast leads us to see the crucial role of the speaker in finite clauses. Since the role of speaker in language is universal, the finiteness distinction is universal.” (p. 4-5)

Main problem (also visible in the citation above):

Niina Zhang does not control for properties related to non-root status of clausal complements vs properties related to non-finite status: speaker-oriented properties e.g. are typically absent from embedded, non-root clauses, despite their eventual finiteness. For example, no speaker-oriented adverbs such as *bùxìng* ‘unfortunately’, *kě* ‘really’ etc. in (finite) relative clauses.

Some of her analyses do not bear further scrutiny and/or do not tie in with the overall syntax of Chinese. Her analysis of (vii) as involving a small clause (SC) is not warranted. The data provided show full-fledged complement clauses (with an overt subject) selected by verbs such as *tǎoyàn* ‘dislike’, *zànxǔ* ‘appreciate’, *chéngrèn* ‘admit’, which Zhang translates as ECM verbs, except for *zànxǔ* ‘appreciate’. (Cf. Paul (2017a) for the non-existence of SC and ECM verbs in Chinese, extending early observations by Audrey Li (1985, 1990).)

(vii) Wǒ tǎoyàn [Ājié zài bàngōngshì lǐ chī liúlián (\*láizhe)] (=her (25b))  
I dislike Ajie at office -in eat durian SFAP  
‘I dislike Ajie’s eating of a durian in the office.’ (N. Zhang’s glosses and translation)

(viii) Wǒ zànxǔ [Ājié chéngrèn zìjǐ de cuò (\*le)] (= her (26b))  
1SG appreciate Ajie admit self SUB fault SFP  
‘I appreciate that Ajie has admitted his fault.’

BUT:

(ix) Wǒmen zànxǔ [zhè liǎng ge guójiā zhōngyú dáchéng yīzhì de yìjiàn \*(le)]  
1PL appreciate this 2 CL country finally reach identical SUB opinion SFP  
‘We appreciate that these two countries have finally reached a consensus.’

(ix) illustrates a general problem (not mentioned by Niina Zhang): given that the sentence-final position of the complement clause to the right of the matrix verb coincides with the sentence-final position of the matrix sentence, additional evidence is needed in order to decide whether an SFP is to be construed with the complement clause or the matrix sentence.

Unsolved central issues (raised, but left without an answer):

a) N. Zhang mentions in passing (p. 32, §4.3) the question “whether Chinese has IP, which is also a locus of finiteness (cf. Ernst 1994)”, but in the end eschews a real answer. Instead, she brings in the fact that SFPs “select certain aspect features of the predicate” (p. 33 top). Note, though, that Ernst (1994) has convincingly argued that Infl is not the locus of aspect.

b) The existence of acceptable finite sentences without SFPs; they represent the majority of cases and are not restricted to sentences with adjectives, the only type discussed by Zhang:

## 6. Law & Ndayiragije (2017)

L&N argue in favour of *syntactic* Tense, contra Lin Jo-wang (2010). But like Lin Jo-wang (2010: 317), they incorrectly locate modal auxiliaries as well as the copula *shì* ‘be’ and the verb *yǒu* ‘have’ in Infl/T°, with the subject in SpecTP, despite the well-known fact that adverbs and negation precede all verbs (including *shì* and *yǒu*) and follow the subject; accordingly, a spec-head relation between subject and highest head in the extended verbal projection is excluded:

- (xa) Tā (yě) bù shì yīngguórén vs. (xb) \*Tā shì (yě) bù yīngguórén  
3SG also NEG be English 3SG be also NEG English  
‘He (also) is not English.’/ \*‘He (also) not is English.’

L&N (2017: 693) nevertheless claim that T° “has no morphological expression”. The latter claim is indeed correct and was already argued for in Ernst (1994), not mentioned by L&N.

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