

**Towards a syntactic focus movement account of the sluicing-like construction in Chinese**  
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Sluicing is an elliptical construction in which a wh-phrase appears in the place where we expect a full clause. A standard analysis of sluicing is that it derives from overt wh-movement followed by deletion of TP, i.e. the PF-deletion account (e.g., Ross 1969; Merchant 2001; Lasnik 2001). However, the PF-deletion account may have difficulty in accounting for the apparent sluicing cases in wh-in-situ languages because wh-phrases in these languages normally do not undergo overt movement (e.g., Huang 1982). Chinese, a wh-in-situ language, has a sluicing-like construction (henceforth SLC) as in (1).<sup>1</sup>

- (1) Mouren ganggang likai-le – caicai **shi** shei?  
 somebody just leave-PERF guess SHI who  
 ‘Somebody just left – guess who?’

Following Wang & Wu (2006), I propose that SLC in Chinese should be analyzed as overt focus movement of a wh-phrase followed by deletion of TP. I show that strong evidence for this analysis comes from the fact that the distribution of the focus marker *shi* in SLC exactly parallels its distribution in wh-fronting constructions where wh-phrases undergo overt focus movement to the pre-subject position.

Wang (2002) noted that the distribution of *shi* in SLC displays an asymmetry between wh-phrases such as *shei* ‘who’ and *shenme* ‘what’ and wh-phrases such as *zai-nali* ‘where’, *shenme-shihou* ‘when’, and *wei-shenme* ‘why’. While *shi* is obligatory before *shei* ‘who’ and *shenme* ‘what’ as in (2), *shi* is optional before *zai-nali* ‘where’, *shenme-shihou* ‘when’, and *wei-shenme* ‘why’ as in (3).

- (2) a. Zhangsan zui xinren *mouren<sub>i</sub>*, dan wo bu zhidao **\*(shi)** *shei<sub>i</sub>*.  
 Zhangsan most trust someone but 1SG NEG know SHI who  
 ‘Zhangsan trusts someone most, but I don’t know *who*.’  
 b. Zhangsan tebie taoyan *mouwu<sub>i</sub>*, dan wo bu zhidao **\*(shi)** *shenme<sub>i</sub>*.  
 Zhangsan very dislike something but 1SG NEG know SHI what  
 ‘Zhangsan dislikes something very much, but I don’t know *what*.’
- (3) a. Zhangsan he Lisi zai *moudi<sub>i</sub>*, xiangyu-le, dan wo bu zhidao **(shi)** *zai-nali<sub>i</sub>*.  
 Zhangsan and Lisi PREP some.place meet-PERF but 1SG NEG know SHI where  
 ‘Zhangsan and Lisi met in some place, but I don’t know *where*.’  
 b. Zhangsan zai *moushi<sub>i</sub>*, like-le paidui, dan wo bu zhidao **(shi)** *shenme-shihou<sub>i</sub>*.  
 Zhangsan PREP some.time leave-PERF party but 1SG NEG know SHI when  
 ‘Zhangsan left the party at some time, but I don’t know *when*.’

Wang (2002) suggests that the asymmetry of the distribution of *shi* is between wh-arguments and wh-adjuncts. However, I show that argument-adjunct is not the right distinction because *shi* is also optional before the d-linked wh-argument in (4) and the (oblique) prepositional wh-argument in (5).

- (4) Zhangsan yudao-le *mou-ge xuesheng<sub>i</sub>*, dan wo bu zhidao **(shi)** *na-ge xuesheng<sub>i</sub>*.  
 Zhangsan meet-PERF some-CL student but 1SG NEG know SHI which-CL student  
 ‘Zhangsan met some student, but I don’t know *which student*.’
- (5) Zhangsan song-le yi-ben shu *gei mouren<sub>i</sub>*, dan wo bu zhidao **(shi)** *gei shei<sub>i</sub>*.  
 Zhangsan give-PERF one-CL book to someone but 1SG NEG know SHI to whom  
 ‘Zhangsan gave one book to someone, but I don’t know *to whom*.’

I claim that the asymmetry of the distribution of *shi*, rather than being sensitive to the argument-adjunct distinction, is morphologically-driven. While *shi* is obligatory before simplex (i.e. mono-morphemic) wh-phrases such as *shei* ‘who’ and *shenme* ‘what’, *shi* is optional before composite (i.e. multi-

<sup>1</sup> In this paper I treat the morpheme *shi* as a focus marker (e.g., Paris 1979; Huang 1982, 1984; Chiu 1993; Shi 1994; Lee 2005). I gloss *shi* as SHI. I use the abbreviation PERF for perfective, NEG for negative, and 1SG for first-person singular.

morphemic) wh-phrases such as *zai-nali* “where”, *shenme-shihou* “when”, *wei-shenme* “why”, d-linked wh-arguments, and prepositional wh-phrases. Note that the wh-phrase *zenmeyang* “how” that interrogates the manner or method of the event is not allowed in SLC (cf. Adams 2004).

- (6) \*Zhangsan yong *mou-zhong fangshi*<sub>i</sub> shasi-le Lisi, dan wo bu zhidao **shi** *zenmeyang*<sub>i</sub>.  
Zhangsan use some-CL manner kill-PERF Lisi but 1SG NEG know SHI how  
Intended ? ‘Zhangsan killed Lisi in some manner, but I don’t know how.’

Importantly, the asymmetry of the distribution of *shi* between simplex and composite wh-phrases in SLC exactly parallels that in wh-fronting constructions where wh-phrases undergo overt focus movement to the pre-subject position. Note that (7) – (11) are minimal pairs with (2) – (6). While *shi* is obligatory in (7), it is optional in (8) – (10). The wh-phrase *zenmeyang* “how” is also not allowed in wh-fronting constructions as in (11).

- (7) a. **Shi** *shei*<sub>i</sub>, Zhangsan zui xinren *t*<sub>i</sub>? b. **Shi** *shenme*<sub>i</sub>, Zhangsan tebie taoyan *t*<sub>i</sub>?  
SHI who Zhangsan most trust SHI what Zhangsan very dislike  
‘Who is it that Zhangsan trusts most?’ ‘What is it that Zhangsan dislikes very much?’
- (8) a. (**Shi**) *zai-nali*<sub>i</sub>, Zhangsan he Lisi *t*<sub>i</sub> xiangyu-le?  
SHI where Zhangsan and Lisi meet-PERF  
‘Where was it that Zhangsan and Lisi met?’  
b. (**Shi**) *shenme-shihou*<sub>i</sub>, Zhangsan *t*<sub>i</sub> likai-le paidui?  
SHI when Zhangsan leave-PERF party  
‘When was it that Zhangsan left the party?’
- (9) (**Shi**) *na-ge xuesheng*<sub>i</sub>, Zhangsan yudao-le *t*<sub>i</sub>?  
SHI which-CL student Zhangsan meet-PERF  
‘Which student was it that Zhangsan met?’
- (10) (**Shi**) *gei shei*<sub>i</sub>, Zhangsan song-le yi-ben shu *t*<sub>i</sub>?  
SHI to whom Zhangsan give-PERF one-CL book  
‘To whom was it that Zhangsan gave a book?’
- (11) \***Shi** *zenmeyang*<sub>i</sub>, Zhangsan *t*<sub>i</sub> shasi-le Lisi?  
SHI how Zhangsan kill-PERF Lisi  
Intended ? ‘How was it that Zhangsan killed Lisi?’

The consistency of the asymmetry of the distribution of *shi* between simplex and composite wh-phrases in SLC and wh-fronting constructions strongly supports the analysis that SLC in Chinese, like sluicing in English, derives from overt movement followed by TP-deletion. That is, Chinese exhibits genuine sluicing, which provides a plausible explanation for the commonalities such as pied-piping, strict/sloppy identity ambiguity, and island repair effects between SLC in Chinese and sluicing in wh-moving languages.

Specifically, I suggest that the focus marker *shi* in SLC is a spelled-out Focus head in the left periphery. Wh-phrases undergo overt focus movement to spec-FocP, and *shi* is raised to a higher functional projection, i.e. ShiP, to c-command the wh-phrases and derive the surface word order.

- (12) Zhangsan da-le *mouren*<sub>i</sub>,  
Zhangsan hit-PERF someone  
dan wo bu zhidao [<sub>ShiP</sub> **shi**<sub>i</sub> [<sub>FocP</sub> *shei*<sub>j</sub> *t*<sub>i</sub> [<sub>TP</sub> ~~Zhangsan da-le~~ *t*<sub>j</sub>]]].  
but 1SG NEG know SHI who Zhangsan hit-PERF  
‘Zhangsan hit *someone*<sub>j</sub>, but I don’t know [<sub>CP</sub> *who*<sub>j</sub> [<sub>TP</sub> ~~Zhangsan hit~~ *t*<sub>j</sub>]].’

**Selected References** [1] Adams, P. Wang. 2004. The structure of sluicing in Mandarin Chinese. In *Penn Working Papers in Linguistics* 10: 1-16. [2] Hiraiwa, K., & S. Ishihara. 2002. Missing Links: Cleft, sluicing, and “no da” construction in Japanese. In *MIT Working Papers in Linguistics* 43: 35-54. [3] Wang, C. 2002. On sluicing in Mandarin Chinese. MA Thesis, NTHU. [4] Wang, C., & H. Wu. 2006. Sluicing and focus movement in wh-in-situ languages. In *Penn Working Papers in Linguistics* 12: 375-387.