

# Long-distance anaphors and the blocking effect revisited: An East Asian perspective

Hyunjun Park

Chinese Language and Literature  
Chungbuk National University  
Cheongju, South Korea 28644  
tudorgepark@gmail.com

## Abstract

A major claim in the literature is that a distribution of anaphoric elements either obeys or disobeys locality conditions. In addition, it has long been noted that the presence of a first (or second) person pronoun intervening between Chinese *ziji* and a higher potential antecedent blocks long-distance binding. However, this paper proposes that a third person antecedent can be a blocker in a given discourse, based on Kuno and Kaburaki's (1977) system. If this is on the right track, the blocking effect in East Asian languages, especially Chinese *ziji*, Korean *caki*, and Japanese *zibun*, can be accounted for with a unified treatment.

## 1 Introduction

Anaphoric elements are generally claimed to fall into two types: those that obey locality conditions and those that do not. Reflexives in English and their counterparts in East Asian languages, especially Chinese, Japanese, and Korean, display characteristics of one or other type. For example, while the English reflexive *himself* can only be felicitously used when bound within the same clause, as in (1), the Chinese reflexive *ziji* in (2) can ambiguously refer to the matrix subject, the intermediate subject, or the lowest subject across the clause boundary, which has been called a long-distance anaphor.

(1) John<sub>3</sub> thinks Tom<sub>5</sub> knows Bill<sub>7</sub> likes himself<sub>\*3/\*5</sub>

/7/

(2) Zhangsan<sub>3</sub> renwei Lisi<sub>5</sub> zhidao Wangwu<sub>7</sub>  
Zhangsan think Lisi know Wangwu  
xihuan ziji<sub>3/5/7</sub>.  
like self  
'Zhangsan<sub>3</sub> thinks Lisi<sub>5</sub> knows Wangwu<sub>7</sub> likes self<sub>3/5/7</sub>.'

(Cole et al. 1990:1)

The long-distance anaphor *ziji* also shows this seemingly idiosyncratic property in some specific contexts. The presence of a first (or second) person pronoun intervening between *ziji* and the higher potential antecedent blocks its long-distance binding, which refers to a blocking effect, as exemplified in (3).

(3) Zhangsan<sub>3</sub> renwei wo<sub>5</sub> zhidao Wangwu<sub>7</sub>  
Zhangsan think I know Wangwu  
xihuan ziji<sub>1\*3/\*5/7</sub>.  
like self  
'Zhangsan<sub>3</sub> thinks that I<sub>5</sub> know that Wangwu<sub>7</sub> likes him<sub>\*3</sub>/me<sub>\*5</sub>/himself<sub>7</sub>.'

(Cole et al. 1990:15)

(4) Chelwu<sub>3</sub>-nun nay<sub>5</sub>-ka caki<sub>3/\*5</sub>-lul  
Chelwu-Top I-Nom self-Acc  
cohaha-n-ta-ko sayngkakha-n-ta.  
like-Pres-Decl-Comp think-Pres-Decl  
'Chelwu<sub>3</sub> thinks I<sub>5</sub> like him<sub>3</sub>/myself<sub>\*5</sub>.'

(Cole et al. 1990:19)

However, no comparable cases, in which a blocking effect is triggered by the presence of first (or second) person pronoun, have been reported for the Korean long-distance anaphor *caki*.<sup>1</sup> A question

<sup>1</sup> It has long been accepted that a feature mismatch between potential antecedents does not induce the blocking effect for

arises at this point about the status of a blocking effect. Cross-linguistically, is it a universal or particular property of the languages? The purpose of this paper is to offer a unified account of long-distance anaphors including blocking effects among East Asian languages.

The organization of the paper is as follows. In section 2, I review the previous analyses of blocking effects with the long-distance binding of Chinese *ziji*. Then, in section 3, I introduce various counter-examples to the existing accounts. And in section 4, a unified account is given in order to accommodate blocking effects of Japanese *zibun* and Korean *caki*. Section 5 summarizes my findings and conclusions, with a discussion of some predictions that follow from the current analysis.

## 2 What has been said about blocking effects with *ziji* in Chinese

Huang and Liu (2001) argue that the blocking effect of the long-distance bound *ziji* can be attributed to the notion of logophoricity. They further reason that the blocking effect is induced in terms of conflicting perspectives, especially first or second person, when binding between *ziji* and its potential antecedents operates across an intermediate antecedent of different person, as illustrated in (5) and (6).

(5) \* $[3 [1 \dots ziji \dots ]]$

(6) \* $[3 [2 \dots ziji \dots ]]$

the long-distance binding of Japanese *zibun*, as shown in (i) and (ii).

(i) Taroo<sub>3</sub>-wa watas<sub>5</sub>-ga zibun<sub>3/5</sub>-o sukida-to omotte-riu.  
Taroo-Top I-Nom self-Acc like-Comp think-Pres  
'Taroo<sub>3</sub> thinks that I<sub>5</sub> like him<sub>3</sub>/myself<sub>5</sub>.'

(ii) John<sub>3</sub>-ga watas<sub>5</sub>-ga Bill<sub>7</sub>-ni zibun<sub>3/5/7</sub>-no sigoto-o  
John-Nom I-Nom Bill-Dat self Gen job-Acc  
sa-seta to omotte-iru.  
do-Cau Comp think-Pres

'John<sub>3</sub> thinks that I<sub>5</sub> made Bill<sub>7</sub> do zibun<sub>3/5/7</sub>'s work.'

(Aikawa 1993:163)

However, the existence of the blocking effect of *zibun* has been reported recently by Nishigauchi (2014) while Cole et al. (1990) and Han and Storoshenko (2012) still claim that Korean *caki* is not subject to the blocking effect at all. I will return to this issue in section 3.

Huang and Liu propose, following Kuno's (1972) direct discourse representation hypothesis, that sentences containing logophoric *ziji* in reported discourse can be paraphrased in terms of direct discourse, by assuming that the source of *ziji* in indirect speech is basically equivalent to the first person pronoun *wo* 'I' in direct speech.<sup>2</sup> As pointed out by Clements (1975), the use of logophoric pronouns is quite similar to that of first person forms in the sense that logophoric pronouns refer to the internal speaker in reported discourse while first person pronouns refer to the external speaker in present discourse. To see how this works, consider the following examples.

(7) a. Zhangsan<sub>3</sub> juede Lisi<sub>5</sub> zai piping ziji<sub>3/5</sub>.  
Zhangsan think Lisi at criticize self  
'Zhangsan<sub>3</sub> thinks that Lisi<sub>5</sub> is criticizing him<sub>3</sub>/himself<sub>5</sub>.'

b. Zhangsan<sub>3</sub> juede, "Lisi<sub>5</sub> zai piping wo<sub>3</sub>."  
Zhangsan think Lisi at criticize me  
'Zhangsan<sub>3</sub> thinks, "Lisi<sub>5</sub> is criticizing me<sub>3</sub>."'

(8) a. Zhangsan<sub>3</sub> juede wo<sub>5</sub> zai piping ziji<sub>1\*3/5</sub>.  
Zhangsan think I at criticize self  
'Zhangsan<sub>3</sub> thinks that I<sub>5</sub> am criticizing him<sub>\*3</sub>/myself<sub>5</sub>.'

b. Zhangsan<sub>3</sub> juede, "wo<sub>5</sub> zai piping wo<sub>3</sub>."  
Zhangsan think I at criticize me  
'Zhangsan<sub>3</sub> thinks, "I<sub>5</sub> am criticizing me<sub>3</sub>."'

(Huang and Liu 2001:161-2)

In (7a), the logophoric *ziji* referring to the reported speaker *Zhangsan* can be turned into the first person pronoun *wo* 'I' as the actual speaker in the direct discourse, as shown in (7b), without perspective clash between *Zhangsan* and *Lisi* since they are both a third party. Thus, the logophoric use of *ziji* is licensed in the indirect discourse. On the other hand, as shown in (8b), there are two instances of the first person *wo* 'I' when the logophoric *ziji* is paraphrased in the direct discourse.

<sup>2</sup> Kuno (1972) observes that the source of *zibun* in (i) is the first person pronoun *boku* in the direct representation of John's internal feeling, as shown in (ii).

(i) John<sub>3</sub>-wa, Mary<sub>5</sub>-ga zibun<sub>3</sub>-o mita toki-wa byooki datta.  
John-Top Mary-Nom self saw when-Top sick was  
'John<sub>3</sub> was sick when Mary<sub>5</sub> saw him<sub>3</sub>.'

(ii) John: "Boku-wa Mary-ga boku-o mita toki-wa  
I-Top Mary-Nom I-Acc saw when-Top  
byooki datta."

'I was sick when Mary saw me.'

(Kuno 1972:180-1)

The two *wo* ‘I’ are anchored in different sources, namely the external speaker and the internal speaker *Zhangsan* respectively and such a reading is not acceptable due to the perspective conflict it would cause. This is the reason Huang and Liu give to explain why a logophoric reading of *ziji* is blocked.

In addition, Pan (2001) claims that the blocking effect of *ziji* is not symmetrical in that intervening first and second person pronouns may block third person potential antecedents from long-distance binding *ziji*, while third person potential antecedents do not necessarily block first or second person pronouns from long-distance binding *ziji*. Here are the relevant judgments.

- (9) a.  $Wo_3$  bu xihuan  $Lisi_5$  guan  $ziji_{3/5}$   
 I not like Lisi interfere self  
 de shi.  
 DE matter  
 ‘I<sub>3</sub> don’t like Lisi<sub>5</sub> interfering in my<sub>3</sub> (own) business.’  
 b.  $Lisi_3$  bu xihuan  $wo_5$  guan  $ziji_{*3/5}$   
 Lisi not like I interfere self  
 de shi.  
 DE matter  
 ‘Lisi<sub>3</sub> does not like me<sub>5</sub> interfering in my<sub>5</sub> (own) business.’

(Pan 2001:283)

The first person pronoun as the matrix subject in (9a) is a possible antecedent. However, in (9b), the third person *Lisi* in the matrix subject position is excluded from being a candidate of long-distance antecedents in such a sentence because of a conflicting feature agreement. Hence, a logophoric reading of *ziji*, in Huang and Liu’s (2001) system<sup>3</sup>, is blocked here.

<sup>3</sup> Contrary to what Huang and Liu argue, Pan (2001:290) points out that the logophoric interpretation cannot properly accommodate the peculiar properties of long-distance bound *ziji* including the blocking effect. The following evidence seems to point in that direction.

(i)  $Kofi_3$  nya be me<sub>5</sub>-kp<sub>3</sub> ye<sub>3</sub>.  
 Kofi know Comp Pro-see Log  
 ‘Kofi<sub>3</sub> knew that I<sub>5</sub> had seen him<sub>3</sub>.’ (Clements 1975: 170)

As we can see above, the blocking effect does not occur in logophoric environments at all. See Park (2015b) for further discussion.

### 3 Another type of blocker

As already pointed out above, the canonical view on blocking effects of Chinese *ziji* has been accounted for in terms of either presence or absence of person feature agreement. In particular, a first or second person pronoun induces blocking effects, but not a third person pronoun. However, a closer look reveals a much different situation, as shown in (2) and (3), repeated below.

- (10)  $Zhangsan_3$  renwei  $Lisi_5$  zhidao  $Wangwu_7$   
 Zhangsan think Lisi know Wangwu  
 xihuan  $ziji_{3/5/7}$ .  
 like self  
 ‘Zhangsan<sub>3</sub> thinks Lisi<sub>5</sub> knows Wangwu<sub>7</sub> likes self<sub>3/5/7</sub>.’  
 (11)  $Zhangsan_3$  renwei  $wo_5$  zhidao  $Wangwu_7$   
 Zhangsan think I know Wangwu  
 xihuan  $ziji_{*3/*5/7}$ .  
 like self  
 ‘Zhangsan<sub>3</sub> thinks that I<sub>5</sub> know that Wangwu<sub>7</sub> likes him<sub>\*3/me\*5/himself</sub>.’

All the candidates of long-distance binding in (10) are a third person and there is no blocking effect. On the other hand, there is a person feature disagreement among the candidates in (11) and it would give rise to the blocking effect. Obviously, however, the blocker is not the first person pronoun *wo* ‘I’ but the third person proper noun *Wangwu*.<sup>4</sup> Let us look at the following contrast.

<sup>4</sup> There has been a great diversity of opinion about what really triggers the blocking effects in the long-distance binding of *ziji*. Many authors agree that blocking can be induced entirely by the existence of an intervening first or second person pronoun, but not a third person antecedent. However, how can we explain what is different between the following sentences.

(i)  $Zhangsan_3$  cong  $Lisi_5$  nar tingshuo naben shu  
 Zhangsan from Lisi there hear that-CL book  
 hai-le  $ziji_{3/*5}$ .  
 hurt-Perf self  
 ‘Zhangsan<sub>3</sub> heard from Lisi<sub>5</sub> that that book hurt him<sub>3/\*5</sub>.’  
 (Pan 2001:291)

(ii)  $Zhangsan_3$  cong  $wo_5$  nar tingshuo  $ziji_{3/*5}$  de erzi  
 Zhangsan from I there hear self DE son  
 de-le jiang.  
 get-Pref prize  
 ‘Zhangsan<sub>3</sub> heard from me<sub>5</sub> that his<sub>3/my\*5</sub> son didn’t win the prize.’

The first person pronoun *wo* ‘I’ in (ii) looks the same as the third person *Lisi* yet does not act as blocker for the long-distance binding of *ziji* in (i).

- (12) Zhangsan<sub>3</sub> renwei wo<sub>5</sub> zhidao Wangwu<sub>7</sub> (Pan 2001:281)  
 Zhangsan think I know Wangwu  
 xihuan ziji<sub>3/??5/7</sub>.  
 like self  
 ‘Zhangsan<sub>3</sub> thinks that I<sub>5</sub> know that Wangwu<sub>7</sub>  
 likes him<sub>3</sub>/me<sub>??5</sub>/himself<sub>7</sub>.’
- (13) Zhangsan<sub>3</sub> renwei Wangwu<sub>5</sub> zhidao wo<sub>7</sub>  
 Zhangsan think Wangwu know I  
 xihuan ziji<sub>3/\*5/7</sub>.  
 like self  
 ‘Zhangsan<sub>3</sub> thinks that Wangwu<sub>5</sub> knows that I<sub>7</sub>  
 like him<sub>3</sub>\*/me<sub>5</sub>/myself<sub>7</sub>.’  
 (Cole et al. 2006:63)

The biggest difference between (12) and (13) is the fact that the third person antecedent *Wangwu* blocks the first person pronoun *wo* ‘I’ from binding *ziji* in (12) while a first person antecedent does in (13). To be more exact, the blocker of the long-distance binding in (12) is the third person *Wangwu* and the same role in (13) is carried by the first person pronoun *wo* ‘I’. If this account is on the right track, the approach that long-distance binding of *ziji* is blocked exclusively by the presence of a first or second person needs to be re-viewed. Here are the relevant data.

- (14) Zhangsan<sub>3</sub> zhidao Lisi<sub>5</sub> gaosu-guo ni<sub>7</sub>  
 Zhangsan know Lisi tell-Guo you  
 youguan ziji<sub>3/5/\*7</sub> de gongzuo.  
 about self DE work  
 ‘Zhangsan<sub>3</sub> knew that Lisi<sub>5</sub> told you<sub>7</sub> about  
 his<sub>3/5</sub>/your<sub>7</sub> work.’
- (15) Zhangsan<sub>3</sub> shuo Lisi<sub>5</sub> gen ni<sub>7</sub> tan-guo  
 Zhangsan say Lisi with you talk-Guo  
 ziji<sub>3/5/\*7</sub> de shi.  
 self DE business  
 ‘Zhangsan<sub>3</sub> said that Lisi<sub>5</sub> talked about  
 his<sub>3/5</sub>/your<sub>7</sub> business with you<sub>7</sub>.’
- (16) Zhangsan<sub>3</sub> renwei Lisi<sub>5</sub> cong wo<sub>7</sub> nar  
 Zhangsan think Lisi from I there  
 tingshuo-le ziji<sub>3/5/\*7</sub> de fenshu.  
 hear-say-Perf self DE score  
 ‘Zhangsan<sub>3</sub> thinks Lisi<sub>5</sub> heard from me<sub>7</sub>  
 his<sub>3/5</sub>/my<sub>7</sub> score.’
- (17) Zhangsan<sub>3</sub> zhidao Lisi<sub>5</sub> zai wo<sub>7</sub> jia xi  
 Zhangsan know Lisi at I home develop  
 ziji<sub>3/5/\*7</sub> de zhaopian.  
 self DE photo  
 ‘Zhangsan<sub>3</sub> knew that Lisi<sub>5</sub> was developing  
 his<sub>3/5</sub>/my<sub>7</sub> picture(s) at my home.’

As we can see in (14) through (17), the first and second person pronouns cannot bind *ziji* whereas the intermediate antecedent can. Nonetheless, that they have been treated as blocking elements is not reasonable. The following example is acceptable as well.

- (18) Zhangsan<sub>3</sub> cong wo<sub>5</sub> nar tingshuo  
 Zhangsan from I there hear-say  
 laoshi<sub>7</sub> ma-le ziji<sub>3/\*5/7</sub>.  
 teacher criticize-Perf self  
 ‘Zhangsan<sub>3</sub> heard from me<sub>5</sub> that the teacher<sub>7</sub>  
 criticized him<sub>3</sub>/me<sub>5</sub>/himself<sub>7</sub>.’

In (18), *ziji* can be bound by both third person antecedents, but not by the first person pronoun.

Huang and Liu (2001) have argued that licensing long-distance binding in Chinese is characterized as the logophoric use of *ziji* and thus the blocking effect can be accounted for by means of logophoric effects such as Kuno’s direct discourse representation hypothesis as the logophoric pronoun *ye* in Ewe is generally used in reported context while it is replaced by a first person form in direct speech. However, there is no logophoric effect in (19).<sup>5</sup>

- (19) Zhangsan<sub>3</sub> de biaoqing gaosu wo<sub>5</sub>  
 Zhangsan DE expression tell me  
 ziji<sub>3/\*5</sub> shi guwude.  
 self is innocent  
 ‘Zhangsan’s<sub>3</sub> expression tells me<sub>5</sub> that he<sub>3</sub>/I<sub>5</sub>  
 am innocent.’  
 (Cole et al. 2006:37)

In (19), not only can *ziji* refer to the matrix subject over the intervening first person pronoun but it also occurs in the absence of a logophoric environment.

Besides, third person interveners may serve as a blocker, as shown in (21).

<sup>5</sup> An anonymous reviewer pointed out that grammaticality of the antecedents of the anaphors in sentences (19) through (26) can be influenced by the predicates. I definitely agree with the reviewer’s comment that the predicate semantics should be considered in the analysis. Nonetheless, I would argue that the verbs used in those examples are utterance verbs, as in (19) through (25), and an attitude verb, as in (26), which makes attitude holders to serve as the antecedent of logophors in the embedded clauses.

(20) Mama<sub>3</sub> shuo jia chuqu-de nüer<sub>5</sub>  
 mother say marry go.out-DE daughter  
 yijing hui lai ziji<sub>3/5</sub>-de jia le.  
 already return come self-DE home Asp  
 ‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already come back to her<sub>3/5</sub> home.’

(21) Mama<sub>3</sub> shuo jia chuqu-de nüer<sub>5</sub>  
 mother say marry go.out-DE daughter  
 yijing hui qu ziji<sub>3/5</sub>-de jia le.  
 already return go self-DE home Asp  
 ‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already gone back to her<sub>3/5</sub> home.’

(Liu 1999:39)

The lower subject *nüer* ‘daughter’ in (21) can be reported by the external speaker as the empathy locus, in Kuno and Kaburaki’s (1977) system, to which deictic elements such as ‘come’ and ‘go’ should refer.<sup>6</sup> Only *nüer* ‘daughter’ in this case, not *mama* ‘mother’, can be the antecedent for *ziji* and thus blocks long-distance binding *mama* ‘mother’, which means that the *nüer* ‘daughter’ functions as a blocker. The same situation occurs in Korean and Japanese, as shown in (22) through (25).

(22) Emeni<sub>3</sub>-nun sicip-ka-n ttal<sub>5</sub>-i  
 mother-Top marry-go.out-Adn daughter-Nom  
 caki<sub>3/5</sub> cip-ulo tola-o-ass-tako  
 self home-to return-come-Past-Comp  
 malha-yss-ta.  
 say-Past-Decl  
 ‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already come back to her<sub>3/5</sub> home.’

(23) Emeni<sub>3</sub>-nun sicip-ka-n ttal<sub>5</sub>-i  
 mother-Top marry-go.out-Adn daughter-Nom  
 caki<sub>3/5</sub> cip-ulo tola-ka-ass-tako  
 self home-to return-go-Past-Comp  
 malha-yss-ta.  
 say-Past-Decl  
 ‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already gone back to her<sub>3/5</sub> home.’

(24) Haha<sub>3</sub>-wa yomeni itta musume<sub>5</sub>-ga  
 mother-Top marry go.out daughter-Nom

zibun<sub>3/5</sub>-no ie-ni modotte ki-ta-to  
 self-Gen home-to return.come-Past-Comp  
 hanasi-ta.  
 say-Past

‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already come back to her<sub>3/5</sub> home.’

(25) Haha<sub>3</sub>-wa yomeni itta musume<sub>5</sub>-ga  
 mother-Top marry go.out daughter-Nom  
 zibun<sub>3/5</sub>-no ie-ni modotte it-ta-to  
 self-Gen home-to return.go-Past-Comp  
 hanasi-ta.  
 say-Past

‘Mother<sub>3</sub> said that the married daughter<sub>5</sub> had  
 already gone back to her<sub>3/5</sub> home.’

The blocking effect related to an empathy locus is also found in the environments with clausemate long-distance anaphors, as pointed out by Huang and Liu (2001) and Cole et al. (2006). Here is the example.<sup>7</sup>

(26) Zhangsan renwei Lisi zhidao Wangwu  
 Zhangsan think Lisi know Wangwu  
 ba ziji<sub>1</sub> de shu song-gei-le  
 BA self DE book give-to-Perf  
 Ziji<sub>2</sub> de pengyou.  
 self DE friend  
 ‘Zhangsan thinks that Lisi knows that  
 Wangwu gave self’s books to self’s friends.’  
 (Cole et al. 2006:61)

In (26), there are two occurrences of long-distance *ziji*, *ziji*’s books and *ziji*’s friends, in the same clause. The two *ziji*s referring to the books and the friends should be bound to the same antecedent. Thus, the sentence can only mean that Zhangsan thinks that Lisi knows that Wangwu gave Zhangsan’s book to Zhangsan’s friends, or that Zhangsan thinks that Lisi knows that Wangwu gave Lisi’s books to Lisi’s friends.<sup>8</sup> Either way, the blocker will be a third person referent. This kind of blocking effect can be seen in Japanese and Korean as well, as shown in (27) and (28) respectively.

(27) Naomi<sub>3</sub>-wa Ken<sub>5</sub>-ga zibun-no kuruma-de  
 Naomi-Top Ken-Nom self-Gen car-by

<sup>6</sup> Liu (1999:39-40) claims that the contrast between (20) and (21) can be accounted for in terms of one of logophoric effects like PIVOT in Sells’ (1987) term. However, this paper, along the lines of Oshima (2004, 2007), argues that long distance bindings in East Asian languages, especially of Chinese *ziji*, Korean *caki*, and Japanese *zibun*, should be accounted for by the notions of logophor and empathy.

<sup>7</sup> This example was first discovered by Pan (1997).

<sup>8</sup> It can be explained in terms of Kuno’s (1987:207) Ban on Conflicting Empathy Foci: A single sentence cannot contain logical conflicts in empathy relationships.

zibun-no ie-ni kaetta to itta.  
 self-Gen home-to returned Comp said  
 ‘Naomi<sub>3</sub> said that Ken<sub>5</sub> had returned to her<sub>3</sub>  
 home in her<sub>3</sub> car.’  
 ‘Naomi<sub>3</sub> said that Ken<sub>5</sub> had returned to his<sub>5</sub>  
 home in his<sub>5</sub> car.’  
 \*‘Naomi<sub>3</sub> said that Ken<sub>5</sub> had returned to his<sub>5</sub>  
 home in her<sub>3</sub> car.’  
 \*‘Naomi<sub>3</sub> said that Ken<sub>5</sub> had returned to her<sub>3</sub>  
 home in his<sub>5</sub> car.’ (Iida 1996:81)

- (28) John-i<sub>3</sub> Bill-i<sub>5</sub> caki-uy emma-ka  
 John-Nom Bill-Nom caki-Gen mother-Nom  
 caki-lul silhehanta-ko sayngkakhanta-ko  
 self-Acc hate-Comp think-Comp  
 malhayssta.  
 said  
 ‘John<sub>3</sub> said that Bill<sub>5</sub> thought that his<sub>3</sub> mother  
 hates him<sub>3</sub>.’  
 ‘John<sub>3</sub> said that Bill<sub>5</sub> thought that his<sub>5</sub> mother  
 hates him<sub>5</sub>.’  
 \*‘John<sub>3</sub> said that Bill<sub>5</sub> thought that his<sub>3</sub> mother  
 hates him<sub>5</sub>.’  
 \*‘John<sub>3</sub> said that Bill<sub>5</sub> thought that his<sub>5</sub> mother  
 hates him<sub>3</sub>.’ (Park 2014)

#### 4 Blocking effect revisited

As described in the preceding section, what licenses the long-distance binding, in Huang and Liu’s (2001) system, is the logophoric reading of *ziji* and the existence of the blocking effect is caused by the result of the shifting of long-distance bound *ziji* from the speaker-referring *wo* ‘I’ in the direct discourse. The examples between (7) and (8) illustrate this claim, repeated below.

- (29) a. Zhangsan<sub>3</sub> juede Lisi<sub>5</sub> zai piping ziji<sub>3/5</sub>.  
 Zhangsan think Lisi at criticize self  
 ‘Zhangsan<sub>3</sub> thinks that Lisi<sub>5</sub> is criticizing  
 him<sub>3</sub>/himself<sub>5</sub>.’  
 b. Zhangsan<sub>3</sub> juede, “Lisi<sub>5</sub> zai piping wo<sub>3</sub>.”  
 Zhangsan think Lisi at criticize me  
 ‘Zhangsan<sub>3</sub> thinks, “Lisi<sub>5</sub> is criticizing-  
 me<sub>3</sub>.”’  
 (30) a. Zhangsan<sub>3</sub> juede wo<sub>5</sub> zai piping ziji<sub>\*3/5</sub>.  
 Zhangsan think I at criticize self  
 ‘Zhangsan<sub>3</sub> thinks that I<sub>5</sub> am criticizing  
 him<sub>\*3</sub>/myself<sub>5</sub>.’  
 b. Zhangsan<sub>3</sub> juede, “wo<sub>5</sub> zai piping wo<sub>3</sub>.”  
 Zhangsan think I at criticize me  
 ‘Zhangsan<sub>3</sub> thinks, “I<sub>5</sub> am criticizing me<sub>3</sub>.”’

(Huang and Liu 2001:161-2)

Huang and Liu consider that two instances of *wo* ‘I’ occurring in the same clause would refer to two different individuals, either the reporter or the internal speaker and thus it can result in a blocking effect. However, as pointed out by Chen (2009), actually their analysis induces a distortion of the truth-condition content of the source sentence, as shown in (31).

- (31) a. Zhangsan<sub>3</sub> juede, “Lisi<sub>5</sub> zai piping wo<sub>3</sub>.”  
 Zhangsan think Lisi at criticize I  
 ‘Zhangsan<sub>3</sub> thinks, “Lisi<sub>5</sub> is criticizing  
 me<sub>3</sub>.”’  
 b. Zhangsan<sub>3</sub> juede, “ni<sub>5</sub> zai piping wo<sub>3</sub>.”  
 Zhangsan think you at criticize I  
 ‘Zhangsan<sub>3</sub> thinks, “You<sub>5</sub> are criticizing  
 me<sub>3</sub>.”’  
 c. Zhangsan<sub>3</sub> juede, “ta<sub>5</sub> zai piping wo<sub>3</sub>.”  
 Zhangsan think he at criticize I  
 ‘Zhangsan<sub>3</sub> thinks, “He<sub>5</sub> is criticizing me<sub>3</sub>.”’  
 (Chen 2009: 477-8)

Presumably, a logophoric *ziji* can be paraphrased by using a first person pronoun *wo* ‘I’ in the direct discourse such as (30b), (31a), (31b), and (31c) but a first person in the reported discourse should also be replaced by an individual referring to an external speaker such as *Lisi* in (31a), *ni* ‘you’ in (31b), *ta* ‘he’ in (31c), not *wo* ‘I’ in (30b). Intuitively, this is correct. Here is the relevant judgment in Ewe.

- (32) a. Kofi<sub>3</sub> gblɔ na wo<sub>5</sub> be yè<sub>3</sub>-a-dyi  
 Kofi speak to Pro that Log-T-seek  
 ga-a na wo<sub>5</sub>  
 money-D for Pro  
 ‘Kofi<sub>3</sub> said to them<sub>5</sub> that he<sub>3</sub> would seek the  
 money for them<sub>3</sub>.’  
 b. Kofi<sub>3</sub> gblɔ na wo<sub>5</sub> be: ma-dyi  
 Kofi speak to Pro that Pro-seek  
 ga-a na mi  
 money-D for Pro  
 ‘Kofi<sub>3</sub> said to them<sub>5</sub>: “I’ll seek the money  
 for you.”’ (Clements 1975: 152)

The second person plural pronoun *mi* ‘you’ in the direct discourse, as in (32b), is replaced by the third person plural form *wo* ‘them’ in the reported speech, as in (32a) even though the logophoric pronoun *yè* is replaced by the first person pronoun

*ma* ‘I’ in the direct speech. Hence, the reconstruction of Huang and Liu shown in (30b) is not appropriate.

This would correspond precisely to the logophoric reading of Japanese *zibun*, as illustrated in (33).

- (33) a. ?\*Taroo<sub>3</sub>-wa boku<sub>5</sub>-ga zibun<sub>3</sub>-ni  
 Taroo-Top I-Nom self-Dat  
 o-kane-o kasi-te kure-ta koto-o  
 money-Acc lend Benef-Past that-Acc  
 sukkari wasure-ta rasii.  
 completely forget-Past seem  
 ‘Taroo seems to have completely forgotten that I had done favor to loan self money.’
- b. Taroo: “Takashi-ga boku-ni o-kane-o  
 Taroo: Takashi-Nom I-Dat money-Acc  
 kasi-te kure-ta.”  
 lend benef-Past  
 ‘Taroo: “Takashi did the favor of lending me money.”’  
 (Nishigauchi 2014: 199)

The first person pronoun *boku* ‘I’ of the reported discourse in (33a) is derived from the third party *Takashi*, the external speaker, with respect to the virtual speaker, using Huang and Liu’s (2001) term, *Taroo* in (33b), not the first person pronoun. Thus, there are not two occurrences of the first person pronoun *wo* ‘I’, contrary to Huang and Liu’s claim.

Additionally, it would be no surprise that a logophoric pronoun does not exhibit the blocking effect, since a logophoric pronoun obligatorily denotes the attitude holder that serves as its referent in the scope of an attitude predicate and since the antecedent of a logophoric pronoun is strictly restricted to third persons. Here are the relevant examples, repeated below from footnote 3.

- (34) Kofi<sub>3</sub> nya be me<sub>5</sub>-kpɔ yɛ<sub>3</sub>.  
 Kofi know Comp Pro-see Log  
 ‘Kofi<sub>3</sub> knew that I<sub>5</sub> had seen him<sub>3</sub>.’  
 (Clements 1975: 170)
- (35) Me<sub>3</sub>-se tso Kofi<sub>5</sub> gbɔ be yɛ<sub>5</sub>-xɔ  
 Pro-hear from Kofi side that Log-receive  
 nunana.  
 gift  
 ‘I<sub>3</sub> heard from Kofi<sub>5</sub> that he<sub>5</sub> had received a gift.’  
 (Clements 1975: 158)

The first person pronoun *me* ‘I’ in (34) cannot block the third person matrix subject *Kofi* from binding *yɛ*. On the other hand, the first person pronoun *me* ‘I’ as the matrix subject in (35) cannot be bound by the logophoric pronoun *yɛ*. The examples of Korean counterparts below demonstrate convincingly that the property of a logophoric pronoun is not related to a blocking effect.

- (36) Chelswu<sub>3</sub>-nun nay<sub>5</sub>-ka caki<sub>3/5</sub>-lul  
 Chelswu-Top I-Nom self-Acc  
 po-n-kes-ul al-ass-ta.  
 see-Adn-Comp-Acc know-Past-Decl  
 ‘Chelswu<sub>3</sub> knew that I<sub>5</sub> had seen him<sub>3</sub>/myself<sub>5</sub>.’
- (37) Na<sub>3</sub>-nun Chelswu<sub>5</sub>-lopwute caki<sub>3/5</sub>-ka  
 I-Top Chelswu-from self-Nom  
 senmwul-ul pat-ass-tako  
 gift-Acc receive-Past-Comp  
 ttul-ess-ta.  
 hear-Past-Decl  
 ‘I<sub>3</sub> heard from Chelswu<sub>5</sub> that \*I<sub>3</sub>/he<sub>5</sub> had received a gift.’

As a matter of fact, the first person pronoun in Chinese does not always serve as a blocker against long-distance binding in a given context, as shown in (38).

- (38) Lisi<sub>3</sub> shengpa wo<sub>5</sub> chaoguo ziji<sub>3/5</sub>.  
 Lisi worry I surpass self  
 ‘Lisi<sub>3</sub> was afraid that I<sub>5</sub> would surpass him<sub>3</sub>/myself<sub>5</sub>.’ (Pollard and Xue 2001: 321)

In (38), *ziji* can take the matrix subject *Lisi* as its antecedent rather than the first person pronoun *wo* ‘I’ within the same clause. This is because *Lisi* here is the attitude holder that serves as the antecedent of logophoric *ziji* in the scope of an attitude predicate. At this point, it should be noted that a logophoric reading can co-occur with a first person pronoun, as illustrated in (39) through (41), respectively Ewe, Japanese, and Korean.

- (39) Ama<sub>3</sub> se be me<sub>5</sub>-kpɔ yɛ<sub>3</sub> le asi-a me.  
 Ama hear that Pro-see Log at market-D in  
 ‘Ama<sub>3</sub> heard that I<sub>5</sub> had seen her<sub>3</sub> at the market.’  
 (Clements 1975: 158)
- (40) Taroo<sub>3</sub>-wa boku<sub>5</sub>-ga zibun<sub>3</sub>-o but-ta  
 Taroo-Top I-Nom self-Acc hit-Past

koto-o mada urande-i-ru.  
fact-Acc still resent-Asp-Pres  
'Taroo<sub>3</sub> still resents that I<sub>5</sub> hit him<sub>3</sub>.'

(Kuno 1978: 212)

- (41) Chelswu<sub>3</sub>-nun nay<sub>5</sub>-ka caki<sub>3/\*5</sub>-lul  
Chelswu-Top I-Nom self-Acc  
piphanha-yess-tako sayngkakha-n-ta.  
criticize-Past-Comp think-Pres-Decl  
'Chelswu<sub>3</sub> thinks that I<sub>5</sub> criticized  
him<sub>3</sub>/\*myself<sub>5</sub>.'

On the other hand, an empathic reading of long-distance binding can exhibit the blocking effect<sup>9</sup>, as shown in (42) and (43), respectively Japanese and Korean.

- (42) \*Taroo<sub>3</sub>-wa boku<sub>5</sub>-ga zibun<sub>3</sub>-ni kasi-ta  
Taroo-Top I-Nom self-Dat lend-Past  
okane-o nakusite-simat-ta rasii.  
money-Acc lose-end.up-Past it.seems  
'It seems that Taroo<sub>3</sub> lost the money I<sub>5</sub> lent to  
him<sub>3</sub>.'

(Kuno 1978: 213)

- (43) \*Hyengsa<sub>3</sub>-nun nay<sub>5</sub>-ka caki<sub>3</sub> pwumo-lul  
detective-Top I-Nom self parents-Acc  
salhayha-n phaylyunpem-i-lako  
kill-Adn reprobate-being-Comp  
sayngkakha-n-ta.  
think-Pres-Decl  
'The detective<sub>3</sub> thinks that I<sub>5</sub> am a reprobate  
who killed his (\*the detective's<sub>3</sub>) parents.'

(Park 2015a: 193)

It is worth noting that there is no attitude holder associated with the reported attitude in (42). Moreover, the empathic use of long-distance binding can empathize with the person in a given context in terms of the external speaker even in the attitude report, such as (43).<sup>10</sup> These observed facts seem to

<sup>9</sup> Empathy theory in linguistics was first introduced by Kuno and Kaburaki (1977:628). The key notion of empathy is defined as follows:

(i) Empathy is the speaker's identification, with varying degrees (ranging from degree 0 to 1), with a person who participates in the event that he describes in a sentence.

To capture how the empathic use of Japanese *zibun* works in a sentence, see Oshima (2007). It is beyond the scope of this paper to explain how the alternative solution through empathy works with respect to a blocking effect of long-distance anaphors and the relationship, as an anonymous reviewer pointed out, between logophors and indexicals. I leave these issues to future research.

<sup>10</sup> An anonymous reviewer suggests that long-distance *ziji* is, or has a use as, a logophor and the felicitous use of *ziji* as a

indicate that logophoric use of long-distance binding does not exhibit the blocking effect. The relevant data from Chinese support this claim.

- (44) Ta<sub>3</sub> shuo ni<sub>5</sub> mingming zhidao Mary<sub>7</sub>  
he say you clearly know Mary  
bu hui xihuan ziji<sub>3/5/7</sub>.  
not will like self  
'He<sub>3</sub> said you<sub>5</sub> knew clearly that Mary<sub>7</sub>  
wouldn't like him<sub>3</sub>/you<sub>5</sub>/herself<sub>7</sub>.'

(Xu 1993:136)

- (45) Zongtong<sub>3</sub> qing wo<sub>5</sub> zuo zai ziji<sub>3/\*5</sub>  
president ask I sit at self  
de shenbian.  
DE side  
'The president<sub>3</sub> asked me<sub>5</sub> to sit beside  
him<sub>3</sub>/himself<sub>5</sub>.' (Pollard and Xue 2001: 321)

In (44), there is no blocking effect in spite of the mismatch of person features among the subjects of the three clauses. In addition, (45) shows that not only does *ziji* not occur in the scope of an attitude predicate at all, there is no blocking effect either.

## 5 Conclusion

Huang and Liu (2001) have argued that the blocking effect of long-distance binding in Chinese can be accounted for in terms of logophoricity and the direct discourse representation hypothesis. Furthermore, they claim that the mismatch of person features among possible antecedents induces the blocking effect. However, this paper proposes that a third person, in addition to a first or a second person, can be an antecedent and that the blocking effect is closely related to empathic use of long-distance anaphors, especially in East Asian languages such as Chinese, Korean and Japanese.

logophor is constrained by the factor of empathy. However, the domain of empathic use in long-distance binding should, I think, be separated from that of logophoric use even though empathic use occasionally overlaps the logophoric use in logophoric environments, as the Korean example in (43). Furthermore, given *ziji* is only characterized as a logophor, the following example cannot be appropriately accounted for by means of logophoricity.

- (i) John<sub>3</sub> mingling Bills<sub>5</sub> [s PRO gei ziji<sub>3/5</sub> guahuazi].  
John order Bill to self shave  
'John<sub>3</sub> ordered Bills to shave him<sub>3</sub>/himself<sub>5</sub>.'

(Pan 2001: 291)



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