

Crossed control revisited: The structure and interpretations of ‘want’ and so on + passive verb in Malay/Indonesian*

HIROKI NOMOTO

ABSTRACT

In Malay/Indonesian, when certain predicates such as ‘want’ are followed by a passive verb, an ambiguity arises about who has the desire and other attitudes in question. The attitude holder can be either the surface subject or the passive agent. This paper critically assesses the data and claims presented in three recent studies (Berger 2019; Kroeger and Frazier 2020; Jeoung 2020) through consideration of additional data. It shows that the ambiguity is empirically robust, contrary to the doubts expressed by Jeoung, and that the restructuring analysis advocated by the latter two studies has problems with its primary evidence: alternate voice marking realization. Instead, the paper confirms the previous understanding of the construction, including a biclausal structure with a dyadic matrix predicate and the importance of voice marking. Methodologically, it demonstrates that linguistic evidence should come from multiple sources, that is, not from elicitation or texts alone but from both of these (and perhaps more).

KEYWORDS

Indonesian; crossed control; voice; verb-auxiliary distinction; restructuring

1 Introduction¹

In Malay/Indonesian, when certain predicates such as ‘want’ are followed by a passive verb phrase as in (1), an ambiguity arises with regard to who has the desire and other relevant attitudes in question. The attitude holder can be either the surface subject (non-crossed reading) or the passive agent (crossed reading).

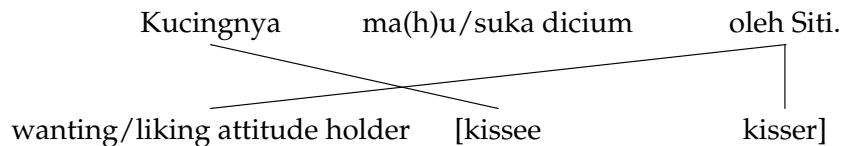
- (1) Kucing=nya ma(h)u/suka di-cium oleh Siti.²
cat=3 want/like PASS-kiss by Siti
(i) ‘Her cat wants/likes to be kissed by Siti.’
(non-crossed reading; attitude holder = her cat)
(ii) ‘Siti wants/likes to kiss her cat.’ (crossed reading; attitude holder = Siti)

*HIROKI NOMOTO is an associate professor of Malay language and linguistics at Tokyo University of Foreign Studies. His areas of research are syntax, semantics and language resource development in Malay/Indonesian. He has developed two important resources: the morphological dictionary *MALINDO Morph* and the concordancer *MALINDO Conc*, both of which are publicly available online. Hiroki Nomoto can be contacted at: nomoto@tufs.ac.jp.

¹This work was supported by JSPS KAKENHI Grant Number JP18K00568. I would like to thank Dian Annisa Nur Ridha, Thathit Puspaning Gegana, Sri Budi Lestari, Shabrina Hazimi Putri, Hilda Amalia, Livie Olivia, Friska Ganiaputri and David Moeljadi for their help with Indonesian examples. I would also like to thank Helen Jeoung, Paul Kroeger, Yuta Sakon and the volume editors for their comments and suggestions on earlier versions of this paper. Needless to say, all errors are solely mine.

The crossed reading is referred to as such because, in order to find the attitude holder of the matrix predicate, one needs to pass through the embedded subject position (between *ma(h)u/suka* and *dicium* in (1)), which is associated with the internal argument of the embedded passive verb ('kisser' in (1)). This can be depicted as in (2) (see section 2 for more details).

(2) Crossed reading: 'Siti wants/likes to kiss her cat.'



In her recent article that appeared in *Language*, Jeoung (2020) casts doubt on the empirical robustness of the crossed reading of Indonesian predicates such as *mau* 'want' and *suka* 'like'. Jeoung suggests that the crossed reading is not as common as previously thought and that what has been analysed as such in fact involves a different meaning, more specifically an aspectual meaning of the same predicate: 'about to, will' for *mau* and 'often' for *suka*. That is to say, the ambiguity found in sentences like (1) is no more than a commonplace lexical ambiguity and hence does not require any special syntactic or semantic treatment. Since the aspectual meaning has generally been recognized in the literature, sentence (1) is three-way ambiguous, with the third meaning (iii) 'Her cat is {about to be/often} kissed by Siti.' By contrast, if the crossed reading turns out to be an aspectual reading, it is only two-way ambiguous between (i) and (iii), with (iii) often mistaken as (ii).

Jeoung (2020) further claims that the relevant predicates are also ambiguous in terms of syntactic categories. *Mau* and other similar predicates are verbs when they convey attitudinal meanings (for example, 'want', 'like') but auxiliaries (which include negation, modals, tense and aspect markers in Jeoung's definition) when they convey temporal meanings (for example, 'about to, will', 'often').³ The distinction between verbs and auxiliaries has also been brought up in the discussion of sentences like (1) by Kroeger and Frazier (2020). Contrary to Jeoung (2020), they propose a new diagnostic and argue that *mau* and similar predicates are verbs in their attitudinal meanings as well. Another recent study by Berger (2019) proposes a restructuring analysis of the crossed reading, whereby the two verbs in a sentence share a single voice feature and consequently a biclausal sentence behaves like a monoclausal one.

In this paper, I assess the data and claims put forward in these recent developments. I make extensive use of the Indonesian subcorpora of MALINDO Conc (Nomoto, Akasegawa and Shiohara 2018a).⁴ They consist of the rearranged version of the Leipzig Corpora Collection (Goldhahn, Eckart and Quasthoff 2012; Nomoto, Akasegawa and Shiohara 2018b) and the Indonesian Frog Storytelling Corpus (Moeljadi 2014). These two corpora are composed of 900,000

²I do not provide glosses for all morphemes but only for inflectional affixes/reduplications and clitics. For example, *nya* is glossed when it is a third person enclitic, but not when it is an adverbial deriving suffix as in *biasanya* 'normally' (< *biasa* 'normal'). Reduplication is glossed as PL when it is a plural (as opposed to singular and general) number marking (cf. Nomoto 2013), but not when it serves other functions as in *apa-apa* 'anything' (< *apa* 'what').

³Jeoung refers to these two readings as "verbal" and "auxiliary" readings. I have not adopted these terms here to avoid unwanted confusion between meanings and syntactic categories. Although strong associations do exist between attitudinal meanings and verbs, as well as between temporal meanings and auxiliaries, such meaning-syntactic category associations do not always hold true either intra- or cross-linguistically.

⁴<https://malindo.aa-ken.jp/conc/>

sentences (14,470,873 words) and 755 sentences (22,446 words), respectively. There are at least two advantages in using MALINDO Conc. Firstly, it has a morphological search function to facilitate searching for specific syntactic patterns. For example, one can search the corpora with a query such as (3), which returns sentences containing *mau* or *suka* immediately followed by a word prefixed by *di-*.

- (3) a. Keyword
Surface Form = **mau|suka**
b. Collocate
(i) Find Collocate between **R1** and **R1**
(ii) Prefix = **di-**

Secondly, one can estimate the replicability of the descriptive generalizations reported in the literature. We tend to think that a fact reported about a language applies to most, if not all, speakers of the language. However, this is actually not always the case. For instance, if a study is based solely on elicitation, the reported facts are definitely correct insofar as the couple of individuals who were interviewed are concerned, but nothing guarantees that these facts extend to other speakers. A sufficiently large collection of texts with a known size helps to understand to what extent they are shared by other speakers in the speech community.

The rest of the paper is organized as follows. Section 2 gives an overview of the construction and examines the community-level validity of Jeoung's first claim above: what has been thought of as a crossed reading is in fact an aspectual reading. It will be shown that the crossed reading exists alongside the aspectual reading. Section 3 discusses whether the construction is monoclausal or biclausal, more specifically, whether predicates like *mau* and *suka* are auxiliaries or not. I conclude that the construction is biclausal. The section also discusses the restructuring analysis. It will be pointed out that the idea of alternate realization of a shared voice feature, which lies at the core of the restructuring analysis, fails to gain sufficient empirical support. Section 4 is the conclusion, in which I draw attention to two matters that will play a major role in future study of the phenomenon, namely the status of the bare active voice and the mechanism responsible for the ambiguity. I discuss Indonesian data in this paper because the previous studies with which I have been concerned discuss it. However, what I claim here should also apply to Standard Malay used in Malaysia, Brunei and Singapore.

2 Crossed reading

2.1 Basic facts about the construction

The construction involving the kind of ambiguity as shown in (1) lacks a good name. Gil (2002) has named it "funny control," as one of its potential interpretations sounds funny in normal contexts. For instance, the non-crossed reading in (4) sounds funny because thieves do not wish to get caught in normal contexts.

- (4) Pencuri itu mau di-tangkap polisi.
 thief that want PASS-catch police
- (i) 'The thief wanted to be caught by the police.' (non-crossed reading)
 (ii) 'The police wanted to catch the thief.' (crossed reading)

In recent years, the construction has more commonly been referred to as the crossed control construction, after its crossed reading. Neither name is accurate, however. This is because the construction, at least in its crossed reading, does not involve control (Nomoto 2011). For this reason, I do not call the two interpretations "normal control" and "crossed control" readings.

Besides *mau* and *suka*, Nomoto (2011) lists the following predicates (in Malay) as among those that behave similarly:

- (5) *berani* 'brave', *berjaya* 'succeed', *berhak* 'have the right to', *berhasil* 'succeed', *berusaha* 'make effort', *coba* (*coba* in Indonesian) 'try', *enggan* 'reluctant', *gagal* 'fail', *hendak/nak* 'want', *ingin* 'want', *layak* 'qualified', *mahu/mau* 'want', *malas* 'lazy', *malu* 'ashamed', *mampu* 'capable', *rela* 'willing', *sempat* 'have time', *suka* 'like', *takut* 'afraid', *terpaksa* 'forced'

Nomoto and Kartini (2011) add *kena* 'pressed by external circumstances' (in Malay), and Kroeger and Frazier (2020) add *nekat* 'insist', *lupa* 'forget' and *tolak* 'refuse' to this list.⁵

In terms of syntax, the construction is characterized by two elements. The first element is a dyadic matrix predicate ("funny predicate," "crossed control predicate"). Its first argument denotes an attitude holder (experiencer) and the other the proposition/situation of which the relevant attitude is spoken. In this respect, the construction resembles control. The second element is a passive verb phrase describing the proposition. If the embedded verb bears the active voice marker *meN-*, the crossed reading disappears, which indicates that the construction involves an A-movement (Nomoto 2011). The surface subject originates from the embedded clause. Therefore, the construction is not control but more like raising, at least in its crossed reading. (6) shows three key points in the derivation of sentence (4) above.

- (6) a. [VoiceP [DP pencuri itu] ditangkap polisi]
 b. [VP mau [VoiceP [DP pencuri itu] ditangkap polisi]] (merger of matrix V)
 c. [DP pencuri itu] [VP mau [VoiceP t_{DP} ditangkap polisi]] (DP movement)

It is a matter of debate whether the non-crossed reading also arises from this structure or whether it arises only from a standard control structure as in (7) (see section 4 for more details).

- (7) [DP pencuri itu]_i [VP mau [CP [TP PRO_i [VoiceP t_{PRO} ditangkap polisi]]]]

In addition to the morphological passive with the prefix *di-* found in the examples so far, Indonesian has another type of passive, as illustrated in (8).

- (8) Buku ini tidak akan kami baca.
 book this not will 1PL read
 'The book will not be read by us.' (Sneddon *et al.* 2010:258)

⁵*Kena* in Indonesian differs from *kena* in Malay and should not be included in the list (Nomoto and Kartini 2011).

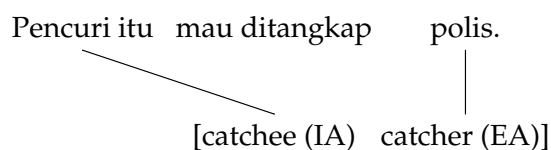
Table 1: Interpretations of “*mau + di-* passive” sentences

Interpretation	Frequency
non-crossed	34
crossed	6
temporal	2
crossed or temporal	7
unclear	1
total	50

- b. Pensil semacam ini **suka** patah.
 pencil like this often break
 ‘Pencils like this often break.’ (KBBI 2016)

Crucially, these verbs are not dyadic but monadic when they express a temporal meaning; the matrix predicate only takes a verb phrase denoting the situation it modifies, but not a noun phrase denoting individuals. (12) depicts the third, temporal interpretation of sentence (4). Notice that the line indicating the attitude holder in (10) is absent in (12).

- (12) Temporal reading: ‘The thief was about to be caught by the police.’



2.2 Does the crossed reading really exist?

Jeoung (2020) doubts the existence of the crossed reading. She suggests that what has been taken as a crossed reading is in fact a temporal reading. To explore this possibility, I examined the Indonesian corpora in MALINDO Conc. Firstly, I collected sentences in which *mau* and *suka* are followed by a passive verb phrase. For *di-* passives, I used MALINDO Conc’s morphological search, by which one can restrict the word immediately after *mau/suka* to those prefixed by *di-*. For bare passives, I picked out relevant sentences manually.

Next, I examined the interpretation of each sentence. Teasing apart the crossed and temporal interpretations was often difficult, even after inspecting the surrounding discourse context. This difficulty is also noted by Jeoung (2020:fn. 13). Hence, I made categories like “crossed or temporal,” “crossed > temporal,” and “temporal > crossed.”

2.2.1 *Mau*

***Mau + di-* passive** Since the results were numerous (475 sentences), I only looked at those in which the agent is overtly expressed, either as a post-adjacent DP, as in (4), or in an *oleh* ‘by’ PP, as in (1). I found fifty such sentences.⁸ The interpretations of these sentences are summarized in Table 1.

⁸Some sentences occur in more than one subcorpus. I removed such duplicates by hand.

(13) is one of the six sentences I classified as a “crossed” reading. The context after this sentence shows that he likes the clothes very much. Hence, it is more plausible to interpret this *mau* as ‘want’ or ‘intend’ rather than a pure temporal marker.

- (13) Baju=nya yang di-pake tidur tidak **mau di-ganti**=nya.
 clothes=3 REL PASS-wear sleep not MAU PASS-change=3
 ‘He didn’t want to change his clothes which he wore when sleeping.’⁹

The context surrounding sentence (13) is given in (14). Incidentally, (14) contains as many as five instances of *mau*. The second and fourth instances are followed by a passive verb phrase, whereas the other three are followed by an active verb phrase. In my interpretation, all instances convey desire or intention, although the fourth instance could be purely temporal.

- (14) Waktu menunjukkan pukul 06.50. eh, ternyata Ridwan tak (1) **mau** ganti baju. Bajunya yang dipake tidur tidak (2) **mau** digantinya. Baju 48 bermotif mobil traktor dengan saku di depan itu terlihat kumal. Tapi Ridwan tetap tak (3) **mau** ganti baju. Bahkan sampai menangis ketika bajunya (4) **mau** dilepas. Karena takut terlambat ke kantor, maka biarlah Ridwan tidak mandi dan tak (5) **mau** ganti baju.
 ‘The time pointed to 6.50. Eh, it turned out Ridwan did not (1) *want* to change his clothes. He did not (2) *want* to change the clothes which he wore when sleeping. The 48 shirt with a picture of a tractor and a pocket on the front looked rumpled. But Ridwan still did not (3) *want* to change the clothes. In fact, he even cried when someone (4) *wanted~was about to* take off his clothes. Because I feared being late for work, I just let Ridwan not bathe and not (5) *want* to change clothes.’¹⁰

(15) is another example in which *mau* is clearly not temporal but conveys desire/intention. It is unlikely that the reason for not being included in the candidates for the Scarlett O’Hara actress is because Goddard was not *about to* explain her marriage. Rather, it is more logical to think the reason has to do with her general disinclination to do so, regardless of how soon the action was expected to actually happen.

- (15) Status pernikahan dengan Chaplin yang tidak **mau di-jelaskan** Goddard mem-buat status marriage with Chaplin REL not MAU PASS-explain Goddard ACT-make nama=nya di-coret dari calon pemeran Scarlett O’Hara untuk film Gone name=3 PASS-delete from candidate role Scarlett O’Hara for film Gone with the Wind.
 with the Wind
 ‘Her marital status with Chaplin, which Goddard did not want to explain, meant her name was removed from the candidates for the role of Scarlett O’Hara in the film Gone with the Wind.’¹¹

(16) is one of the seven sentences which I was not able to classify into either “crossed” or “temporal.”

⁹LCC, IND MXD2010, <http://andika21.wordpress.com/>. Hereafter, the sources of the examples from the Leipzig Corpora Collection will be shown in this way: LCC, Subcorpus name, URL.

¹⁰<http://andika21.wordpress.com/>, accessed 1/10/2020

¹¹LCC, IND WKP2016, http://id.wikipedia.org/wiki/Charlie_Chaplin

- (16) Setelah installan kedua ini, memory card internal gak akan **mau di-baca** oleh PC,
 after install both this memory card internal not will MAU PASS-read by PC
 tapi jangan khawatir, cukup di-reboot saja.
 but don't worry enough PASS-reboot just
 'After installing both these, the PC will not {want to/very soon} read the internal mem-
 ory card, but don't worry, you can just reboot your PC.'¹²

One may think that *mau* in (16) is not temporal because the *akan* 'will' preceding it already indicates time. However, the possibility remains that *mau* contributes a temporal meaning different from that of *akan*, which I translated as 'very soon' above.

Incidentally, Jeoung (2020:e169) states that previous accounts of crossed control predict incorrectly that neither non-crossed nor crossed readings are possible with two inanimate arguments, as in (17).

- (17) Dalam foto, terlihat mobil yang **mau di-tabrak** oleh kereta.
 in photo seen car REL MAU PASS-crash by train
 (i) 'In the photo, there is a car which wants to be hit by a train.' (non-crossed reading)
 (ii) 'In the photo, there is a car which a train wants to hit.'¹³ (crossed reading)
 (Jeoung 2020:e169)

Jeoung claims that the actual interpretations are not those in (17) but those with the temporal *mau*: (i) 'In the photo, there is a car which is *about to* be hit by a train' and (ii) 'In the photo, there is a car that a train is *about to* hit'.¹⁴ However, I would argue that the attitudinal interpretations are also possible in cases where sentences such as (16) and (17) are used figuratively and strictly speaking inanimate arguments are treated as if they were animate (for example, in children's books). Inanimate nouns denoting moving objects, especially large vehicles, often behave like animates. In Japanese, for example, animate and inanimate arguments take different existential verbs, namely *iru* (18a) and *aru* (18b). Cars and trains take the former, as shown in (18c), unless they are no longer used for transport.

- (18) a. Eki ni takusan hito-ga {iru/*aru}.
 station at many person-NOM are
 'There are many people in the station.'
 b. Eki ni takusan jihanki-ga {*iru/aru}.
 station at many vending.machine-NOM are
 'There are many vending machines in the station.'
 c. Eki ni takusan kuruma/densha-ga {iru/*aru}.
 station at many car/train-NOM are
 'There are many trains in the station.'

Therefore, although it is true that *mau* can be interpreted temporally, Jeoung's example poses no problem to previous accounts of crossed control.

¹²LCC, IND MXD2012, <http://alman-nkri.blogspot.com/2010/08/smartphone-samsung-galaxy-s.html>

¹³Jeoung's original: 'In the photo, there is a train that wants to hit a car.'

¹⁴Jeoung's original: 'In the photo, there is a train which is about to hit a car.'

Table 2: Interpretations of “*mau* + bare passive” sentences

Interpretation	Frequency
non-crossed	0
crossed	4
crossed > temporal	22
temporal	0
temporal > crossed	5
crossed or temporal	3
total	34

Mau + bare passive Table 2 summarizes the interpretations of *mau* when followed by a bare passive verb phrase. In contrast to *mau* followed by a *di-* passive clause, no instance was found for the non-crossed reading. This is arguably because almost all surface subjects in the sentences of this pattern were inanimate.

(19) is one of the four sentences that clearly has a crossed reading, expressing the desire/intention of the bare passive agent. Censorship is the act of eliminating words that the authorities do not *want* people to hear or see, but not words they are not *about to* hear or see.

- (19) Usaha penyensoran ini juga tercerminkan di dalam adegan di mana si kakek
 effort censorship this also be.reflected at inside scene at where the grandfather
 men-[t]ulis surat ke stasiun televisi di mana ia meny-[s]enaraikan kata-kata yang
 ACT-write letter to station television at where 3SG ACT-list word.PL REL
 tidak **mau ia dengar** lagi di televisi.
 not MAU 3SG hear more at television
 ‘This attempt at censorship is reflected in a scene in which the grandfather writes a
 letter to the TV station, in which he lists words he does not want to hear again on TV.’¹⁵

(20) is an example which I classified as “crossed > temporal.” The author and his friend Teguh were in Bali and were thinking about how to return to Yogyakarta in Java on their motorcycles. Then, Teguh came up with a good idea, namely to hitch a lift in a lorry returning to Java. *Mau* here can be interpreted as expressing either his desire/intention or the temporal closeness to the relevant event. The surrounding context reveals that they had not even begun to find the cargo terminal. Although temporal closeness depends on the speaker’s perspective (for example, three hours can count as ‘very soon’ in some situation for some people, but not for others), the desire/intention reading sounds more natural here.

- (20) Motor **mau dia naikin** ke atas truk dari Jawa dan ikut men-[t]umpang.
 motorcycle MAU 3SG put.on to top lorry from Java and together ACT-ride
 ‘He {wanted to/was about to} put his motorcycle on a lorry from Java and hitch a
 ride.’¹⁶

Temporal closeness is clearer in (21), though a desire/intention meaning still remains plausible. Therefore, I have classified (21) as “temporal > crossed.”

¹⁵LCC, IND WKP2016, http://id.wikipedia.org/wiki/Bart_the_General

¹⁶LCC, IND WEB2012, <http://arfen-arfen.blogspot.com/>

Table 3: Interpretations of “*suka + di-* passive” sentences

Interpretation	Frequency
non-crossed	41
crossed	0
temporal	3
crossed or temporal	3
total	47

- (21) Saya di-hantui perasaan bersalah, dunia narkotik sudah **mau saya tinggalin**.
 1SG PASS-haunt feeling guilty world drug already MAU 1SG leave
 ‘I was haunted by a sense of guilt, (so) I already {was about to/wanted to} leave the drug scene.’¹⁷

2.2.2 Suka

Suka + di- passive The sentences in which *suka* is followed by *di-* passive verb phrases were much fewer than the cases with *mau* above. Hence, I examined all examples, regardless of whether the passive agent occurs overtly. Table 3 shows the results.

For *suka*, I found no indisputable case of crossed reading for two possible reasons. First, the number of potential examples of crossed and temporal readings is quite small, with the majority of examples being non-crossed reading ones. Second, if a person likes to do something, s/he normally does it often, giving rise to the possibility of a temporal reading. The three examples which I have classified as “crossed or temporal” are given in (22)–(24). In (24), the agent of the passive verb *diletakkan* ‘to be put’ is implicit, and the surface subject *boneka-boneka* ‘dolls’ occurs postverbally.

- (22) Orang sukses me-miliki kebiasaan me-lakukan hal yang tidak **suka**
 person successful ACT-own habit ACT-do thing REL not SUKA
di-lakukan oleh orang malas.
 PASS-do by person lazy
 (i) ‘Successful people have the habit of doing things which lazy people do not like to do.’ (crossed reading)
 (ii) ‘Successful people have the habit of doing things which are often not done by lazy people.’¹⁸ (temporal reading)
- (23) Saya sangat meng-idolakan Scott, dan sakit hati sekali rasanya kalau saya tidak bisa
 1SG very ACT-idolize Scott and hurt heart very feel if 1SG not can
 pergi ke tempat-tempat yang **suka di-datangi=nya** [...].
 go to place.PL REL SUKA PASS-visit=3
 (i) ‘I idolized Scott a lot, and I felt upset if I couldn’t go to the places which he liked to visit.’ (crossed reading)
 (ii) ‘I idolized Scott a lot, and I felt upset if I couldn’t go to the places that were often visited by him.’¹⁹ (temporal reading)

¹⁷LCC, IND MXD2012, <http://ainuamri.wordpress.com/2010/05/15/terapi-islami-mengatasi-kecanduan-narkoba/>

¹⁸LCC, IND MXD2012, <http://agustlahab.blogspot.com/>

- (24) Kalau anak-anak yang meninggal di bawah umur 16 tahun, di makam=nya **suka**
 TOP child.PL REL pass.away at below age 16 year at grave=3 SUKA
di-letakkan boneka-boneka gitu, [...].
 PASS-put doll.PL like.that
- (i) 'In the case of children who have passed away under the age of 16, (people) like to put dolls at their graves.' (crossed reading)
- (ii) 'In the case of children who have passed away under the age of 16, dolls are often put at their graves.'²⁰ (temporal reading)

Suka + bare passive Only three sentences which have this pattern were found. (25) and (26) have a crossed reading. In (25), *suka* cannot mean 'often' because it is semantically incompatible with *kadang-kadang* 'sometimes' preceding it. A temporal meaning ('things which are not often done by you') also arises in (26), but it is an implicature; you are not likely to often do things which you can do only by disciplining yourself.

- (25) Yang aku syukuri tuh, dia selama ini masih jujur (*kadang² suka aku uji*)".
 REL 1SG thank PART 3SG during this still honest sometimes SUKA 1SG test
 'What I'm grateful for is, she (= the author's maid) has been honest so far (sometimes I like testing that)'.²¹
- (26) Kadang kamu harus men-disiplinkan diri utk me-lakukan hal-hal yang tidak
 sometimes 2 must ACT-discipline self to ACT-do thing.PL REL not
suka kamu lakukan, [...]
 SUKA 2 do
 'Sometimes you must discipline yourself to do things that you do not like to do.'²²

From my understanding, *suka* in (27) also has a crossed reading, although the possibility of a temporal reading remains.

- (27) Kalau kita perhatikan pola makan orang barat, bobot bahan makanan yang
 if 1PL observe pattern eat person west weight material food REL
suka mereka konsumsi, dari tahun ke tahun makin lama makin
 SUKA 3PL consume from year to year increasingly long increasingly
 meningkat.
 rise
 'If we observe the dietary pattern of Westerners, the portion of the food which they like to consume grows bigger year by year.'²³

To summarize, corpus examples suggest that, at the speech community level, both *mau* and *suka* have a distinct crossed reading alongside the temporal reading.

¹⁹LCC, IND WEB2012, <http://artikel.sabda.org/book/export/html/14>

²⁰LCC, IND WEB2012, http://articlewithnoidentity.blogspot.com/2009_06_01_archive.html

²¹LCC, IND WEB2012, http://anakku-tercinta.blogspot.com/2008_12_01_archive.html

²²LCC, IND WEB2012, <http://agustlahab.blogspot.com/>

²³LCC, IND MXD2012, http://anehdanlucu2.blogspot.com/2009/12/aneh-tapi-nyata_04.html

3 Clause structure

In the previous section, I examined possible interpretations of sentences with *mau/suka* followed by a passive verb phrase. What emerges is that the crossed reading exists alongside the temporal reading and cannot be replaced with the latter. An independent issue is the syntactic category of *mau, suka* and similar predicates (crossed control predicates). When she suggests that what has been thought of as a crossed reading “could result from misunderstanding or overlooking an auxiliary interpretation [= temporal reading—HN]” (Jeoung 2020:e167), Jeoung (2020) assumes that crossed control predicates are auxiliaries in temporal reading (for example, ‘about to, will’, ‘often’), but they are verbs in non-crossed reading (for example, ‘want’, ‘like’). Although we no longer need to worry about temporal reading, it is important to determine whether crossed reading arises from a biclausal structure, in which the crossed control predicate is a verb which takes a verb phrase as its complement, as schematically shown in (28a), but not a monoclausal structure, as shown in (28b).

- (28) a. Biclausal structure
 Theme [_{VP} *mau/suka* [_{VoiceP} Agent v_{pass} [_{VP} V *t*_{Theme}]]]
 b. Monoclausal structure
 Theme [_{AuxP} *mau/suka* [_{VoiceP} Agent v_{pass} [_{VP} V *t*_{Theme}]]]

If the sentence giving rise to the crossed reading has a monoclausal structure, the interpretive mechanism involved is essentially the same as that of subject-oriented adverbs and root modals. They can be associated with either the surface subject or the passive verb agent (“logical subject”), corresponding to the non-crossed and crossed readings. In (29), for example, the individual who is careful and who is under an obligation can be either John or the doctor.

- (29) a. John was carefully examined by the doctor. (Jackendoff 1972:83)
 b. John must be examined by the doctor.

Indeed, some previous authors have ascribed crossed reading to the auxiliary status of *mau* and other words meaning ‘want’ (Shoho 1995; Fukuda 2007; Musgrave 2001; Sato 2004). For *mau*, the authoritative dictionary *Kamus Besar Bahasa Indonesia (KBBI)* lists its intention/desire meaning as *adverbia*, which includes auxiliaries as well as adverbs.²⁴ George Quinn’s *The Learner’s Dictionary of Today’s Indonesian* (Quinn 1999) also regards *mau* followed by a verb phrase as an auxiliary. If these descriptions are correct, *mau* is not an ideal predicate with which to investigate the phenomenon, and we should look at other predicates such as *coba* ‘try’.

Crossed control is considered to be special because the type of ambiguity found in (29) arises from a biclausal, control-like structure. Therefore, it is important to ensure that the construction in question is biclausal, but not monoclausal. However, as can be seen in (28), the two structures are very similar. The surface similarity is illustrated in (30) below, adapted from Kroeger and Frazier (2020). (30a) contains auxiliaries and is monoclausal, whereas (30b) contains crossed control predicates and is biclausal.

²⁴Surprisingly, *KBBI*’s entry of *mau* does not have any verb usage.

- (30) a. Ayah **sudah/telah/akan** ku=obati.
 father already/PFV/will 1SG=treat(medically)
 'I {already treated/have treated/will treat} Father.'
- b. Ayah **coba/mau/suka** ku=obati.
 father try/want/like 1SG=treat(medically)
 'I try/want/like to treat Father.'

The following two facts Nomoto (2011) points out make distinguishing between the two structures even more difficult:

- (31) a. NO VOICE MORPHOLOGY
 Crossed control predicates either contain no affix at all or are prefixed by *ber-* or *ter-*. They never take the active voice prefix *meN-*.
- b. MODAL SEMANTICS
 The meaning of crossed control predicates pertains to either psychological attitudes or external circumstances which affect the realization of a situation.

These characteristics also apply to auxiliaries, with the exception of the derivational prefixes *ber-* and *ter-*.

In their discussion of *kena* 'pressed by external circumstances' in Malay, Nomoto and Kartini (2011) propose a fronting test to distinguish between auxiliaries and crossed control predicates. When multiple auxiliaries occur in a passive clause, they are fronted together, as shown in (32). This is not possible for the combination of *sudah* 'already' and *cuba* 'try' (Malay equivalent of *coba*), indicating that *coba* is not an auxiliary.

- (32) a. **Sudah boleh**=kah rumah itu _____ di-jual?
 already can=Q house that PASS-sell
 'Can the house now be sold?'
- b. ***Sudah cuba**=kah rumah itu _____ di-jual?
 already try=Q house that PASS-sell
- c. Rumah itu **sudah cuba** di-jual.
 house that already try PASS-sell
 '(Someone) has already tried to sell the house.' (Nomoto and Kartini 2011:374)

Nomoto and Kartini state that (32b) is ungrammatical because *sudah* and *cuba* do not form a constituent. However, this explanation leads one to make a wrong prediction, namely that the generalization about fronting also holds with active clauses, contrary to the fact (Ramli 1995:104). Although the reason for the contrast is unclear, the test is still useful. The same contrast is observed in the following Indonesian examples.

- (33) a. **Sudah pernah**=kah Tono _____ di-dekati Sabrina?
 already have=Q Tono PASS-approach Sabrina
 'Has Tono already been approached by Sabrina?'
- b. ***Sudah coba**=kah Tono _____ di-dekati Sabrina?
 already try=Q Tono PASS-approach Sabrina

- c. Tono **sudah coba** di-dekati Sabrina.
 Tono already try PASS-approach Sabrina
 (i) 'Tono has already tried to be approached by Sabrina.'
 (non-crossed reading)
 (ii) 'Sabrina has already tried to approach Tono.'
 (crossed reading)

Kroeger and Frazier (2020), inspired by the conference presentation which was later published as Jeoung 2020, propose another diagnostic which differentiates crossed control predicates from auxiliaries: crossed control predicates can be passivized, whereas auxiliaries cannot be. They present the examples in (34) and (35) as support. In their analysis, the parts in boldface in (35) are in the bare passive.

(34) *Di-* passive

- a. Buah itu kemudian **di-coba** di-makan, ternyata rasa=nya asam.
 fruit that subsequently PASS-try PASS-eat perceived flavor=3 sour
 'The fruit was then tried to be eaten, and its taste was found to be sour.'²⁵
 b. Tapi kita tak tahu apa yang **di-suka** makan...
 but 1PL not know what REL PASS-like eat
 'But we don't know what they like to eat...'²⁶

(35) Bare passive

- a. makanan terburuk yang pernah **saya coba** makan
 food worst REL PRF 1SG try eat
 'the worst food that I have ever tried to eat' (lit. 'that has ever tried to be eaten by me')²⁷
 b. sekadar bergambar bersama durian yang tidak **ku=suka** makan.
 enough pictured with durian not 1SG=like eat
 (photo caption) 'barely able to be photographed with durian, which I do not like to eat.' (lit. 'which does not like to be eaten by me.')²⁸

Kroeger and Frazier's diagnostic predicts that (30a) cannot be passivized, whereas (30b) can be. I asked eight Indonesian speakers for acceptability judgements.²⁹ The predicted contrast was *not* found. The number in the brackets following the sentence shows the number of speakers who judged the sentence to be "absolutely unnatural, incorrect." No sentence was judged as "absolutely natural" by any speaker. Furthermore, MALINDO Conc, which contains some 900,000 Indonesian sentences, did not have any examples containing *dicoba/dimau/disuka obati* (37a) and *kucoba/kumau/kusuka obati* (37b).³⁰ Therefore, Kroeger and Frazier's diagnostic is unreliable from a practical point of view.

²⁵<http://surabaya.tribunnews.com/2010/09/21/olah-bogem-menjadi-sirup-dodol-dan-selai>

²⁶<http://abdrahims.blogspot.com/2013/02/kenal.html>

²⁷https://www.tripadvisor.co.id/Restaurant_Review-g187849-d2356409-Reviews-Marcellino_Pane_e_Vino-Milan_Lombardy.html

²⁸<http://oxygen94.blogspot.com/2012/01/>

²⁹Seven speakers are from Java (west, central and east), and one is from Sumatra.

³⁰A Google search (conducted on 8/11/2020) returned eight distinct sentences containing *dicoba obati*. This presents the methodological question of how large our corpus should be to show that a particular pattern is common in a language.

- (36) a. *Ayah di-sudah/di-telah/di-akan obati oleh ibu. [7/8]
 father PASS-already/PASS-PFV/PASS-will treat(medically) by mother
 ('Mother {already treated/have treated/will treat} Father.')
- b. ?*Ayah tentu ku=sudah/ku=telah/ku=akan obati. [4/8]
 father certainly 1SG=already/1SG=PFV/1SG=will treat(medically)
 ('I certainly {already treated/have treated/will treat} Father.')
- (37) a. ?*Ayah di-coba/di-mau/di-suka obati oleh ibu. [4/8]
 father PASS-try/PASS-want/PASS-like treat(medically) by mother
 'Mother tries/wants/likes to treat Father.'
- b. ?*Ayah tentu ku=coba/ku=mau/ku=suka obati. [4/8]
 father certainly 1SG=try/1SG=want/1SG=like treat(medically)
 'I certainly try/want/like to treat Father.'

It is worthwhile to consider why the prediction was not borne out. First, one of the speakers who judged (36b) as “absolutely unnatural” notes that this type of sentence might be natural in some areas and that she feels that she has heard them in lyrics. I argue that this is because (36b) can be parsed as a bare active sentence with topicalization, as shown in (38).

- (38) [TopP Ayah_i tentu [TP ku= [T' sudah [VoiceP obati *t_i*]]]]

It is not difficult to find the pronoun *ku* in the surface subject position, which seems to be procliticized to the following word or to have undergone shortening.

- (39) Sebab **ku akan** rapuh saat kau jauh.
 because 1SG will fragile when 2 far
 'Because I will be fragile when you are far away.'³¹
- (40) Meski ke tujuh samudera, pasti **ku kan** men-[t]unggu; Karena **ku yakin**, kau
 even.if to seven ocean certain 1SG will ACT-wait because 1SG confident 2
 hanya untuk=ku
 only for=1SG
 'Even if you go across the seven oceans, I'll certainly wait for you; because I'm confident
 you are only for me.' (Kahitna *Untukku*)

If (36b) is a bare active sentence, ?? should also have a bare active parsing, as in (41a). However, unlike the former, the latter has a more prominent parsing without topicalization, namely bare passive, as in (41b).³² However, this structure is ungrammatical because the lower VoiceP lacks an external argument. If the lower VoiceP is in the bare active, the external argument of *obati* should have raised to the surface subject position which *ayah* occupies. If it is in the bare passive, the external argument of *obati* should have remained in its initially merged position, as in (41c).

- (41) a. [TopP Ayah_i tentu [TP ku= [T' [VoiceP coba [VoiceP obati *t_i*]]]]] (bare active)
 b. [TP Ayah_i [T' tentu [VoiceP ku=coba [VoiceP obati *t_i*]]]] (bare passive)
 c. [TP Ayah_i [T' tentu [VoiceP coba [VoiceP ku=obati *t_i*]]]] (bare passive)

³¹LCC, IND WEB2012, <http://aliceritapendek.blogspot.com/>

³²The adverb *tentu* 'certainly' is adjoined to VoiceP in this structure.

If (41b) is ungrammatical, why do sentences like (35), which Kroeger and Frazier (2020) present as bare passive, exist in the first place? One possible reason is speaker variability. However, I believe that another possibility is more likely. Auxiliary/negation (Aux/Neg) fronting from a bare active clause occurs for informational structural reasons. Because Aux/Neg is a syntactic head as opposed to a phrase, it is possible for it to undergo head movement. Informally speaking, the fronted Aux/Neg is given emphasis, unlike the non-fronted Aux/Neg in bare passives. Under this “bare active + fronting” analysis, (35) involves the structures shown in (42), in which the external argument of *makan* is relativized, and in which the auxiliary *pernah* and the negation *tidak* moves to the focus head above TP.

- (42) a. makanan terburuk yang [_{FocP} pernah [_{TP} saya [_{T'} _____ [_{VoiceP} coba makan]]]]
- ↑
- b. [...] durian yang [_{FocP} tidak [_{TP} ku= [_{T'} _____ [_{VoiceP} suka makan]]]]
- ↑

Aux/Neg fronting is not limited to bare active clauses. In (43)–(44) below, fronting occurs from morphological active clauses with the prefix *meN-*.

- (43) Bagaimana **bisa** kita _____ meng-ajak seseorang yang takut air berenang bersama?
 how can 1PL ACT-invite someone REL afraid water swim together
 ‘How can we invite someone who is afraid of water to swim with us?’³³
- (44) **Tidak pernah** mereka _____ mem-[p]andang nyanyian sebagai sekedar
 not have 3PL ACT-see singing as just
 hiburan saja.
 entertainment only
 ‘Never have they seen singing just as entertainment.’³⁴

Let us next turn to (37a). Berger (2019) and Kroeger and Frazier (2020) report that some speakers allow the passive marker normally occurring with the embedded verb to be realized on the matrix predicate. However, none of my consultants allowed such alternate realization, although two noted that *dicoba*, but not *dimau* and *disuka*, might be used by some speakers. To confirm this remark, one relevant example was found in the corpus.

- (45) Karena itu, agor men-coba meng-[k]urangi pandangan sendiri terhadap ayat yang
 because that Agor ACT-try ACT-reduce view own towards verse REL
di-coba pahami.
 PASS-try understand
 ‘Because of that, I [= Agor] try to reduce my own views on the verses which I try to understand.’³⁵

Given the large size of the corpus, it can be said that alternate realization is possible only for a very limited group of speakers. For Berger (2019) as well as Kroeger and Frazier (2020), alter-

³³LCC, IND MXD2012, <http://alubiez.wordpress.com/>

³⁴LCC, IND WEB2012, <http://alkitab.sabda.org/article.php?id=8419>

³⁵LCC, IND WEB2012, <http://agorsiloku.wordpress.com/2007/01/15/adakah-mahluk-berakal-di-luar-bumi-2/>

nate realization is a crucial evidence to support their claim that the crossed control construction, in fact, involves restructuring, a phenomenon also found in other languages such as Spanish and German. Their evidence seems genuine, but at the same time, it is rather difficult to replicate by means of either elicitation or corpora. However, another way of understanding what appears to be alternate realization exists: *coba/mau/suka* and the subsequent bare verb form a compound verb. In this compound verb, the passive prefix is expected to occur to the left of the whole verb stem (*coba obati* in (45)), without harming the compound's lexical integrity. As compounding is a lexical matter, differences in availability across words and speakers also follow naturally.

Berger (2019) furthermore claims that examples such as (46) exemplify a novel type of restructuring in which a single passive voice feature is realized for two verbs.

- (46) Perampok **di-coba** **di-tangkap** polisi.
 thief PASS-try PASS-catch police
- (i) *'The thief tried to be caught by the police.' (non-crossed reading)
 (ii) 'The police tried to catch the thief.' (crossed reading)
- (Berger 2019:70)

These types of sentences are common. Examples such as (46) indicate the presence of two distinct voice positions, associated with upper and lower verb phrases, and hence argue for the biclausal structure in (28a). However, notice that with the introduction of the passive voice morphology on the crossed control predicate *coba*, the interesting ambiguity disappears, with only the crossed reading being available. This is unexpected unless one assumes that the normal control reading arises only from a normal control structure. If (46) has the same restructuring structure as (47) does and differs from the latter only in the way in which the passive voice is realized, no difference should exist in terms of possible interpretations. In Berger's analysis, a single instance of passive voice is realized for both upper and lower verbs in (46) but only for the lower verb in (47), with the upper verb being left unmarked for voice.

- (47) Perampok *coba* **di-tangkap** polisi.
 thief try PASS-catch police
- (i) 'The thief tried to be caught by the police.' (non-crossed reading)
 (ii) 'The police tried to catch the thief.' (crossed reading)

The two *di-*'s are therefore exponents of two distinct morphemes. The *di-* prefixed to the crossed control predicate *coba* affects the interpretation, just as the active voice prefix *meN-* does, as in (48).

- (48) Perampok itu **men-coba** **di-tangkap** polisi.
 thief that ACT-try PASS-catch police
- (i) 'The thief tried to be caught by the police.' (non-crossed reading)
 (ii) *'The police tried to catch the thief.' (crossed reading)

I would analyse sentences such as (46) as a standard biclausal structure with a CP complement, paralleling (49) (cf. Saddy 1991), in which the referent of the matrix external argument

happens to be identical to that of the lower verb.

- (49) Perampok itu di-katakan [_{CP} di-tangkap polisi].
thief that PASS-say PASS-catch police
'The thief is said to have been caught by the police.'

In (49), the individual who says that the police caught the thief is normally understood to be someone who is not mentioned in the sentence. However, this is not semantically entailed but rather results from pragmatic inference. Hence, the police can be the relevant individual under certain circumstances. The same mechanism brings about the crossed reading in (46).

Nevertheless, (46) is still important to our discussion. This is because it shows that *coba* in (47) has an external argument and hence is not a monadic raising predicate but rather a dyadic predicate. By passivizing *coba*, the external argument ("tryer") can no longer be associated with the surface subject. This does not happen without passivization. Therefore, Nomoto's (2011) morphological generalization about crossed control verbs (31a) can be extended to include the passive prefix *di-*. Crossed control predicates must occur in the bare active if they are transitive verbs.

To summarize, this section has discussed whether crossed control constructions are monoclausal or biclausal. It has been shown that crossed control constructions are biclausal in the sense that crossed control predicates take verb phrases as their complements but are not auxiliaries. Crossed control predicates are not raising predicates either. They are lexically specified as taking two arguments, which means that they have two θ -roles. This section has also discussed recent attempts to reduce crossed control constructions to restructuring. Although the idea is attractive, alternate passive voice realization, which is claimed to cause a biclausal structure to function monoclausally, presents empirical problems.

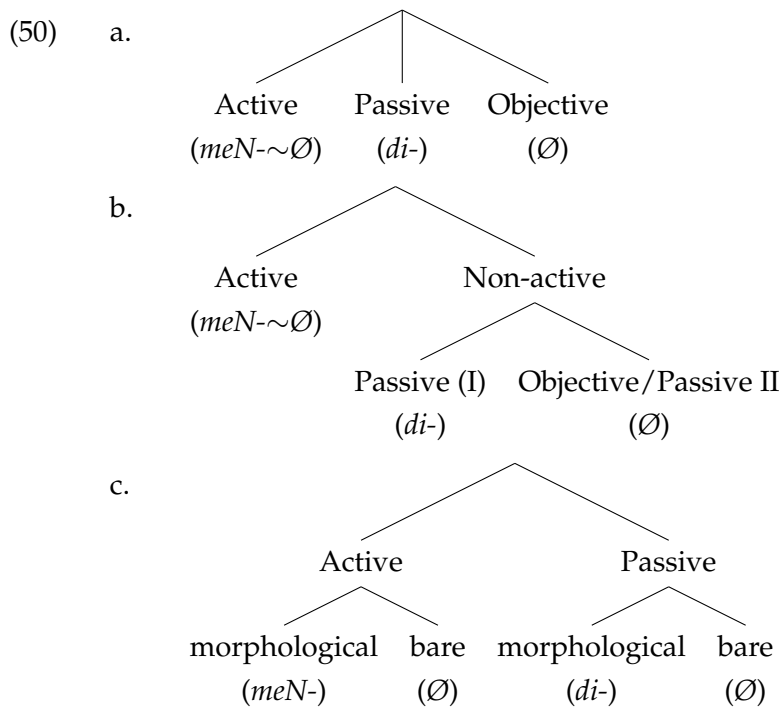
4 Conclusion

After having examined several facts and claims by Berger (2019), Kroeger and Frazier (2020) and Jeoung (2020), my conclusion is that the old view is still valid. The ambiguity between the non-crossed and crossed interpretations is quite robust. Crossed control predicates are not auxiliaries, and hence the construction is biclausal. Crossed control predicates are dyadic syntactically as well as semantically. The three studies are valuable because they give us an opportunity to revisit the construction from new perspectives and to pay attention to some of the facts which we have neglected before.

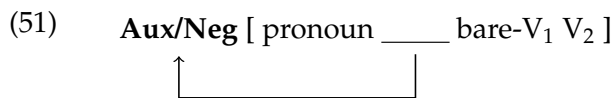
I would also like to draw attention to a point which tends to be neglected, namely the importance of recognizing the bare active voice.³⁶ The bare active voice is often considered to be a result of the obligatory or optional omission of the morphological active voice marker *meN-* and not a voice of its own. The resulting voice system is either (50a) or (50b). Conversely, I have assumed the system depicted in (50c), following Voskuil (2000) and Asmah (2009), among others.³⁷

³⁶See Chung (1978) for a convincing argument regarding how bare actives are indeed active and not a variant of bare passives.

³⁷The names of the four voices are adopted from Voskuil (2000).



Whether the bare active is a result of omission or not, the failure to recognize it can lead to failure to consider alternative analyses. As seen in the previous section, the surface string “Aux/Neg pronoun bare-V₁ V₂” does not necessarily entail that the bare-V₁ is in the bare passive. It also arises from a bare active clause through the fronting of Aux/Neg:



In the same vein, the bare passive structure shown in (52b) is not the only possible analysis of the surface string in (52a). The bare active structure in (52c) is not only possible but also more plausible because (52b) contains a covert agent, which is ungrammatical in Indonesian.

- (52) a. Mobil manakah yang dia coba curi?
 ‘Which car did s/he try to steal?’
- b. Mobil mana=kah yang dia=coba [____ ____ curi]?
 car which=FOC REL 3SG=UV³⁸.try (P) (A) UV.steal (Arka 2014)
- c. Mobil mana=kah yang dia coba [____ curi ____]?
 car which=FOC REL 3SG try (A) steal (P)

Furthermore, we have seen that crossed control predicates which are transitive verbs must be in the bare active, but not the morphological active/passive or the bare passive.

Finally, I must point out that so far, no consensus has been reached about the mechanism responsible for the ambiguity between non-crossed and crossed readings. Some authors propose analyses which derive the two readings from a common structure. Nomoto (2011) and Sato (2010) both propose that the two readings are obtained because a point of syntactic derivation exists at which both the surface subject and the passive agent (“logical subject”) are accessible

³⁸Arka (2014) calls the bare passive “Undergoer Voice.”

for the external θ -role assignment of the crossed control predicate. For Nomoto (2011), the relevant configuration stems from the movement of the theme argument of the passive verb (= surface subject) through the left edge, which the agent also occupies. Sato (2010), who assumes that passive verb phrases lack the left edge employed in Nomoto’s analysis, claims that the passive verb moves up to the crossed control predicate. The external θ -role is then assigned either to the surface subject or to the passive prefix *di-* (*di-* passive) or procliticized agent (bare passive).

By contrast, Berger (2019) explicitly states that the two readings are the result of two distinct structures. The non-crossed reading is obtained from a normal control structure (cf. (7)) and the crossed reading from a restructuring structure. Polinsky and Potsdom (2008) will also need to appeal to a normal control structure for the non-crossed reading because the latter reading does not arise from the mechanism they propose. They analyse *mau/ingin* ‘want’ as raising verbs, which take only the embedded verb phrase. The identification of the desire holder is therefore achieved completely through the lexical semantics of *mau/ingin*. They apply Wyner’s analysis of subject-oriented adverbs to *mau/ingin*, whereby the Proto-Agent in the embedded verb, which has a volition property (Dowty 1991), is semantically identified with the desire holder. Given that the Proto-Patient does not have a volition property, the Proto-Patient will not be identified with the desire holder with this *mau/ingin*. While this can prevent the overgeneration of the unavailable crossed reading when *mau/ingin* occurs with an active verb phrase, another kind of *mau/ingin* is necessary to account for the non-crossed reading when *mau/ingin* occurs with a passive verb phrase.

The language certainly has a normal control structure. It is necessary to account for the non-crossed reading of (48), in which the matrix verb bears the movement blocking prefix *meN-*. The same structure should be available in general. The question is whether the normal control structure is the only source of the non-crossed reading of the crossed control construction. If it is, the nature of the ambiguity is purely structural. If it also arises from the structure responsible for the crossed reading, the construction also has a semantic property akin to subject-oriented adverbs and root modals in such languages as English (see (29)).

Abbreviations

1	first person	FocP	focus phrase
2	second person	IA	internal argument
3	third person	LCC	Leipzig Corpora Collection
A	agent	NOM	nominative
ACT	active	P	patient
AuxP	auxiliary phrase	PART	particle
CP	complementizer phrase	PASS	passive
DP	determiner phrase	PRF	perfect
EA	external argument	PFV	perfective
Foc/FOC	focus	PL	plural
Foc’	focus phrase (intermediate)	Q	question

REL	relativizer	TP	tense phrase
SG	singular	UV	undergoer voice
<i>t</i>	trace	V _{pass}	passive little verb
T'	tense phrase (intermediate)	V	verb
TOP	topic	VP	verb phrase
TopP	topic phrase	VoiceP	voice phrase

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