

Context Shift and Indexical Variables in Sign Languages

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1. Introduction

The linguistic resources displayed by sign languages (SLs) in order to reproduce someone else's utterances or thoughts have remained absent from the semantic research on reported discourse till very recently. This paper aims at contributing some fresh SL data to the discussion about the proper characterization of indexical interpretation in reported discourse/thought contexts.

I will defend a unified treatment of quotational and non-quotational use of role shift in SLs, in line with Zucchi (2004) and other previous research. A covert Point of View Operator will be held responsible for the morphological and semantic properties of role shift constructions. One partial conclusion will be that the crosslinguistic validity of the "Shift-Together Constraint" by Anand & Nevins (2004) might not be instantiated in the SLs examined.

The new data discussed comes mainly from Catalan Sign Language (LSC), the SL used by the Deaf Community in Catalonia.¹ However, I also undertake limited crosslinguistic comparisons with published American Sign Language (ASL), Lingua Italiana dei Segni (LIS) and Danish Sign Language (DSL) data.

2. The Properties of Role Shift in SLs

The grammatical phenomenon known as *role shift* (RS) (also known as *role taking*, *reference shift* or in some instances *constructed dialogue*, as in Metzger 1995) in SLs is often viewed as the equivalent of a direct discourse report or quotation in the visual-gestural modality. It is the genuine means these languages have in order to convey the utterances or thoughts ascribed to a discourse agent, and sometimes to reproduce or rather reconstruct the dialogue between two or more subjects. It mostly appears in the context of narratives. For general characterizations and analyses of the phenomenon, see Engberg-Pedersen (1995), Lee et al. (1997), Poulin (1994), Poulin & Miller (1995), Lillo-Martin (1995) and Zucchi (2004), among others.

From a formal point of view, RS is typically flagged by a number of nonmanual markings that may include the following ones:

- slight body shift towards the locus in signing space where the author of the reported utterance has been previously located;
- break in eye gaze contact with the actual addressee; gaze directed towards the purported addressee of the reported context;
- change in head position;

- facial expression (linguistic and affective) associated with the author of the reported utterance.

These nonmanual markings are simultaneously coarticulated with the manual material that is interpreted as the reported proposition.

At the manual level, the main characteristic of RS is that the reference of 1st and 2nd person pronouns and the corresponding verb agreement with subject and object is shifted with respect to the actual context of utterance. Typically, a 1st person pronoun occurring in a RS fragment does not refer to the actual signer but to the signer of the reported context, as we can observe in the LSC example in (1):² the pronominal sign IX-1 'I'³ does not refer to the author of this example, but to the referent of JOAN, the individual to whom the thought is ascribed.

- (1) _____ t _____ RS-i
IXa MADRID JOAN_i; THINK IX-1_i; STUDY FINISH HERE MADRID
'When he has in Madrid, Joan thought he would finish his studies there in Madrid.'

Unlike in English, for instance, the default interpretation of personal pronouns in the scope of RS is not determined by the utterance context but rather by the context of reported conversation. This is not a particular fact of RS in LSC, but it seems to be recurrent in the other SLs where the RS phenomenon has been attested, as in (2) from ASL.

- (2) JOHN_i _____ SAY IX-1_i; WANT _____ GO (ASL: Lee et al. 1997)
'John said: "I want to go."'/ 'John said that he wanted to go.'⁴

Lee et al. (1997) treat examples of this sort as instances of reported direct speech or direct quotation realized as two juxtaposed clauses. Although such cases do exist, I will show that RS is also attested in constructions where reported direct speech cannot be at play. This has been documented for several sign languages, and for ASL as well (cf. Lillo-Martin 1995, who provides empirical arguments for the embedded status of the reported clause).

In SLs, this strategy with RS constitutes a much more genuine mechanism of reporting someone else's utterance or thought than regular indirect discourse. However, the latter is an existing alternative, as we can see in the example in (3). It should be compared with the parallel case with RS in (4). Putting the nonmanual markings of RS aside, the main difference resides in the use of pronominals: the 1st person pronoun in (4) does not get interpreted in the actual context of utterance, but in the derived context.

- (3) ANNA_i; 3-SAY-1 IX-3_i; FED-UP LOSE+++
'Anna told me that she was fed up with losing so often.'

_____ RS-i

- (4) ANNA_i 3-SAY-2 IX-1; FED-UP LOSE+++
 ‘Anna told you that she was fed up with losing so often.’

As we will see more extensively below, treating RS fragments as direct speech is not always straightforward. On the one hand, LSC has explicit markers of direct quotes such as VOICE, SAY1 SENTENCE, AUTHOR IX-#, etc. An instantiation of this can be found in (5).

- (5) ANNA; EXPLAIN SAY1 SENTENCE IX-1; BROTHER MAN 3-IGNORE-1
 “Anna told me: ‘My brother ignores me.’”

On the other hand, what appears to be a direct quotation at face value cannot be classified as such due to the interpretation of the indexicals appearing in it. An instance of RS used in a non-direct quotation can be found in (6) from LSC. The crucial fact is that the reported thought could not be a quotation with the intended meaning of the indexical *HERE*: uttered in Barcelona, *HERE* refers to Barcelona and not to the reported context.

- (6) IXa MADRID_m MOMENT JOAN; THINK IX-1; STUDY FINISH *HERE*_e
 ‘When he was in Madrid, Joan thought he would finish his study in Barcelona.’

However, as recently discussed in Zucchi (2004) for LIS, RS is not exclusively restricted to quotational environments, and it can also appear outside the scope of an attitude predicate, as in (7): the main clause is not an attitude report in the usual sense, as it is not introduced by a reportive predicate such as ‘say’ or ‘think’, but it has the same surface properties as a direct quotation. In this example RS implies that the subject of the agreeing verb *DONATE* is coreferential with *GIANNI*. A comparable case in LSC can be found under (8): the RS stretch has to be attributed to the author of the e-mail referred to in the first part of the utterance and the second person pronoun is linked to the actual 1st person that reports having received the e-mail.

- (7) GIANNI; ARRIVE BOOK 1-DONATE-2
 ‘When Gianni arrives, he will give you the book as a present.’
 (LIS: Zucchi 2004)

- (8) JOAN; MAIL ELECTRONIC 3-SEND-1 IX-2 ALL GUILT IX-2
 ‘In an e-mail Joan sent to me, he was like ‘It’s all your fault.’”

Some other examples instantiate the possibility for RS to occur independently (non-introduced RS), as in (9) from ASL. As in the previous case, no overt

predicate introduces the report and only the attitude holder MOM is made explicit.

- (9) $\text{MOM}_i \text{ IX-1}_i \text{ BUSY}_{\text{RS-}i}$ (ASL: Lillo-Martin 1995)
 'Mom's like, I'm busy!'

Despite their direct discourse flavor at face value, these instances of non-quotational RS roughly display the same properties with respect to locative and temporal indexicals such as **HERE** or **YEAR-THIS**. Although more work is needed on this second group of data, they seem to be crucial for the overall account of context shifting in SLs.

The main conclusion of this brief characterisation of RS in LSs is that irrespective of whether RS is introduced or not by an attitude predicate, the interpretation of the indexical elements occurring in its domain can differ from the one we would expect in direct quotation. In the next section we will try to put these facts into the perspective of indexical interpretation in language in general.

3. Indexicals that Shift?

The received view on indexical expressions is that expressions such as 1st and 2nd person pronouns, temporal and locative deictics are directly referential, following the basic approach of Kaplan (1989). This characterization has been summarized by Schlenker in the *Fixity Thesis* (10).

- (10) *Fixity Thesis* (a corollary of Direct Reference)

The semantic value of an indexical is fixed solely by the context of the actual speech act, and cannot be affected by any logical operators.

(Schlenker 2003: 29)

Although operators are in principle conceivable that could shift the context of evaluation of an indexical, Kaplan excludes this possibility and calls them 'monsters'. At face value, this view seems to account quite accurately for indexical interpretation in a language like English. However, Schlenker (2003) argues that such monsters do exist and are instantiated in certain languages by attitude predicates. An example of such a shifted indexical would be represented in the following example in Amharic, where the 1st person in the scope of 'say' does not refer to the actual utterer but to John, the reported utterer.

- (11) Situation: John says: 'I am a hero'

jon jəgna nə-ññ yil-all (Amharic)
 John hero be.PF-1sO 3M.say-AUX.3M
 'John_i says that he_i is a hero.'
 (Lit.: 'John_i says that I_i am a hero.')

(Schlenker 2003: 68)

From a crosslinguistic point of view, this is not an isolated case. Languages like Havyaka Kannada (Dravidian), for example, use the same set of pronouns for denoting actual and reported speech act participants. As a consequence, the reference of the embedded 1st person pronoun can be anchored to the reported context of utterance (12i) or to the matrix context (12ii):

- (12) en-na ello:ru-de hogaɭuttavu he: ʃi ra:ju enna-tre he:liddā
-
- me.ACC all.EMPH praise that Raju me-with tell.PERF

- (i) Raju₁ has told me₂: "Everybody praises me₁."
 (ii) Raju₁ has told me₂ that everybody praises me₂. (Bhat 2004: 58)

What this example shows is that the semantic value of the same linguistic expression, the 1st person pronoun, is not unambiguously determined by the actual context of utterance.

Recent work (Anand & Nevins 2004, Schlenker 2003, Speas 1999) has extensively shown that the Kaplanian analysis of indexicals in the scope of attitude reports is challenged empirically by languages like Amharic, Navajo, Slave or Zazaki, where first person pronouns embedded under a verb of saying, for instance, can corefer with the matrix clause subject (the attitude holder or reported agent), and not necessarily with the actual utterer, as happens in English.

In view of this sort of facts, the definition of indexical expression should arguably be made more precise. According to Schlenker (2003), "an expression qualifies as indexical if its semantic value is determined by some feature of the context of utterance" (Schlenker 2003: 31). For instance, Amharic 'I' in (11) above qualifies as a strict indexical, as it must refer to the speaker of some context, although not necessarily the context of the actual speech act. It differs in that respect from logophoric pronouns, which are only grammatical in embedded contexts.

Schlenker implements his proposal in an extensional semantics, where attitude verbs are quantifiers over contexts of thought or speech and may bind free context variables. The simplified representation of this view can be found under (13) for example (11): c_i stands for the context of the reported speech act, and c^* for the context of the actual utterance.

- (13) SAY
- _{<John, now, actually>}
- c_i
- be-a-hero (agent(
- c_i
-), time(
- c_i
-), world(
- c_i
-))

Crosslinguistic variation in the shifting possibilities of indexicals is made dependent on whether the denotations of particular indexicals have free context

variables or not. In the case under examination, Amharic ‘I’ would be lexically underspecified for its context variable (14b), as opposed to its English counterpart (14a):

- (14) a. English ‘I’: $[[I]] = \text{agent}(c^*)$
 b. Amharic ‘I’: $[[I]] = \text{agent}(c)$, c an underspecified context variable

It is further argued by Schlenker that, unlike 1st and 2nd person pronouns, temporal adverbials in English such as “two days ago” shift optionally, as in example (15): only the shifted reading of the temporal expression would yield a felicitous result (15b), while the temporal expression “the day before yesterday” which is indexical to the actual contexts results in infelicity (15a). According to him, this constitutes an argument in favour of treating attitude verbs as quantifiers over contexts rather than as context-shifting modal operators that overwrite all the contextual variables (for the opposite view, though, see Anand & Nevins 2004, who treat this expression as anaphoric).⁵

- (15) John has told me repeatedly over the years: ‘I was sick two days ago.’
- a. # John has told me repeatedly over the years that he was sick the day before yesterday.
 b. John has told me repeatedly over the years that he was sick two days ago.

On the other hand, under this account logophoric pronouns would be indexicals that can never be dependent on the actual context of utterance, as represented in (16).

- (16) Logophoric pronoun: + indexical, $-c^*$

Mupun (Chadic) (Frajzyngier 1993) instantiates the case of 1st and 2nd person logophoric pronouns as characterized by Schlenker. They are always anchored in the derived context (17b)-(18b), as opposed to the non-logophoric ones (17a)-(18a), which refer to the actual discourse participants.

- (17) a. wu sat nə n-nas wur
 3MSg say that beat.1Sg 3MSg
 ‘He said that I beat him.’
- b. wu sat nə di nas an
 3MSg say that Log1MSg beat 1Sg
 ‘He₁ said that he₁ beat me.’
- (18) a. n-sat n-wur nə wur ji
 1Sg-say to-3Sg that 3Sg come
 ‘I told him₁ that he₂ should come.’

- b. n-sat n-wur nə gwar ji
 1Sg-say to-3Sg that Log2 come
 ‘I told him₁ that he₁ should come.’

These are the essential features of the framework I am going to assume for the analysis of indexical behaviour in RS in SLs. However, nothing crucial hinges on this particular choice, and probably other approaches that can accommodate the phenomenon of indexical shift and the basic crosslinguistic facts related to it could be adopted.

4. SL Indexicals in Role Shift

4.1. *Shifted Second Person Reference*

The published data on RS in different SLs indicates that pronominal reference in reportive contexts behave much as Amharic 1st person pronoun, that is, it is not indexical to the actual utterer, but to the individual to whom the reported attitude is ascribed. Nevertheless, 2nd person reference unsurprisingly shows shifty behaviour as well. In the LSC examples under (19) and (20) this fact is illustrated through verbal agreement: 2nd person on the unbound agreement marker in (19) and on the agreeing lexical verb in (20).⁶

- (19) YESTERDAY ANNA_i IX-3a 3a-TELL-3b PEDRO IX-1_i ANGRY AGR-2 _____RS-i
 ‘Yesterday Anna told Pedro that she was angry at him.’

- (20) YESTERDAY ANNA_i IX-3a 3a-TELL-1 IX-1_i 1-HELP-2 _____RS-i
 ‘Yesterday Anna told me that she would help me.’

The occurrence in these examples (19) and (20) of 2nd person morphology linked to parameters of the embedded context and not to the actual context of utterance already makes clear that shifted reference of pronouns in RS is not limited to 1st person, as Zucchi’s (2004) seems to imply for LIS.

4.2. *Non-shifted Interpretation of Indexicals in RS*

Despite the general tendency for indexical pronouns to shift reference within RS, non-shifted (or back-shifted) interpretations of 1st/2nd pronouns in the scope of RS have been also reported for SLs. One such example is (21), taken from Engberg-Pedersen (1995): in a RS stretch of discourse reporting her mother’s signing, the utterer uses 1st person pronouns (regular and possessive pronouns) to refer to herself, where a 2nd person would have appeared in direct discourse. This

(Barcelona), and not to the derived context where the locative parameter is explicitly fixed (Madrid).

- (23) $\overline{\text{t}}$ $\overline{\text{RS-i}}$
 IXa MADRID_m MOMENT JOAN_i THINK IX-1_i STUDY FINISH HERE_b
 'When he was in Madrid, Joan thought he would finish his study in Barcelona.'

However, if the indexical *HERE* is further specified, as in the minimally modified sentence (24) (=1)), it can end up referring to the other location, Madrid.

- (24) $\overline{\text{t}}$ $\overline{\text{RS-i}}$
 IXa MADRID JOAN_i THINK IX-1_i STUDY FINISH HERE MADRID
 'When he has in Madrid, Joan thought he would finish his studies there in Madrid.'

The fact that one and the same indexical (*HERE*) with associated RS morphology can receive both interpretations argues against the possible alternative mentioned above that would resort to two different series of indexical elements in the lexicon.

Not all temporal and locative indexicals, though, behave in the same way. Some of them, like *NOW* in (25) or *YEAR THIS* in (26), do not permit shifted reference to the embedded context. This must be attributed to lexical differences between indexical expressions: in a subset of cases like these, we do find strict indexicality to the main context parameters.

- (25) $\overline{\text{t}}$ $\overline{\text{RS-i}}$
 LAST-YEAR JOAN_i THINK IX-1_i STUDY FINISH NOW
 'Last year, Joan thought he would finish his studies {now/#then}.'

- (26) $\overline{\text{t}}$ $\overline{\text{RS-i}}$
 LAST-YEAR JOAN_i IX-3 THINK IX-1_i STUDY FINISH YEAR THIS#
 'Last year, Joan thought he would finish his studies {this year/#then-that year}.'

On the basis of Navajo data displaying Direct Discourse Complements, Speas (1999) argues for a split between the system determining deixis for person marking (functional) and the system determining deixis more generally (semantic). In view of the data discussed so far in this paper, we must conclude that such a clear-cut divide does not hold for the SLs at hand, despite the parallelism with some of the Navajo facts. What we have been able to show is that shifted reference of indexicals is not something specific to a particular context parameter.

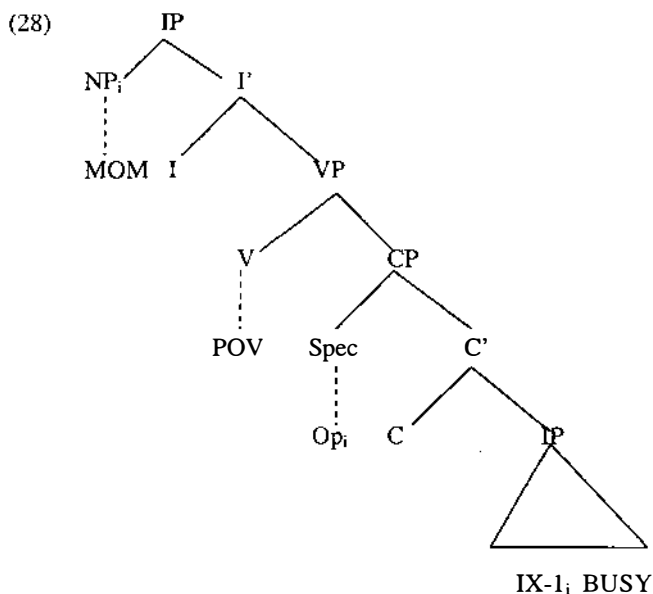
The proposals made for the set of data with shifting indexicals in certain spoken languages like Amharic could straightforwardly tackle the SL examples of RS such as (1-3) with an introducing reportive/attitude predicate, that is, instances of so-called quotative RS. However, the same analyses are faced with an

additional problem in instances of non-quotative RS like (7)-(9): no attitude verb is present in the structure in order to license the shifted reading of indexicals, a scenario which is explicitly excluded in Schlenker (2003: 69). In the next section I will sketch an approach that tries to solve the problem without giving up the insights of previous analyses.

5. Proposal: Point of View Operator

With the aim to provide a unified account of both introduced and unIntroduced instances of RS, I follow the basic insight in Lillo-Martin (1995), where she proposes that a sentence like (27) (=9)) involves a covert Point of View Predicate (POV). The relevant part of the structure is depicted in (28): the covert POV predicate selects an embedded CP and binds the operator in its Spec. In turn, this operator binds the 1st person pronoun in the RS complement.

- (27) $\overset{\text{RS-i}}{\text{MOM}_i \text{ IX-1}_i \text{ BUSY}}$ (ASL: Lillo-Martin 1995)
 'Mom's like, I'm busy!'



Building on Lillo-Martin's (1995) analysis, I suggest that the type of languages we are looking at instantiate a Point of View Operator (PVOp), rather than a Point of View Predicate. This operator materializes in RS nonmanual morphology and

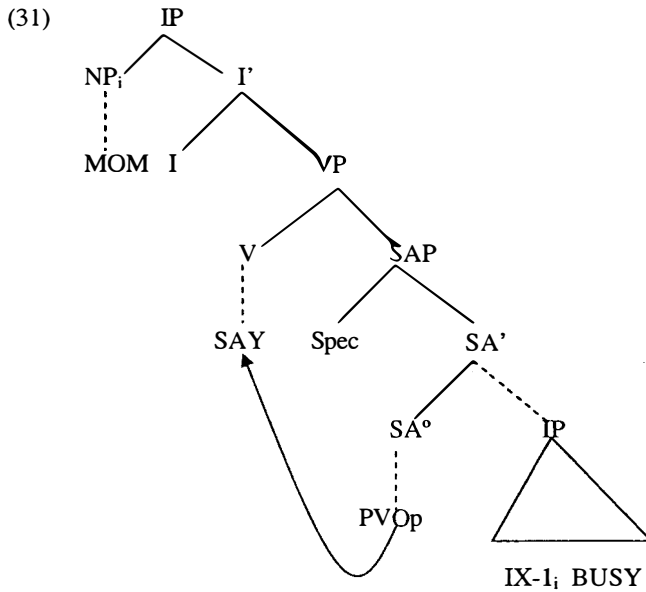
accounts for the attested shifted interpretations of indexicals in its scope (1st and 2nd person pronouns, time and locative indexicals). Spreading of nonmanuals over the c-command domain of an Operator has been argued to exist in ASL for other operators such as Wh, Q or Neg (Neidle et al. 2000), whether they are overt or covert: furrowed eyebrows associated with the Wh-Operator in (29) and headshake associated with the Neg Operator in (30).

(29) _____^{wh}
 LOVE JOHN WHO
 'Who does John love?'

(30) _____^{hs}
 JOHN BUY HOUSE
 'John didn't buy a house.'

(ASL: Neidle et al. 2000)

Unlike Lillo-Martin, though, I argue that PVOp is not a covert reportive/attitude predicate taking a subordinate CP (the reported proposition), but a covert operator over contexts (à-la-Schlenker) sitting in a very high projection of the functional structure of the clause (cf. Cinque 1999 on the expanded left periphery of the clause, Speas & Tenny 2003, Speas 2004). Tentatively, I will assume that this projection is Speech Act Phrase, as proposed in Speas (1999, 2004) in order to account for a number of related facts. The PVOp would occupy the head of this projection and determine the morphological and interpretive properties of the RS structure within its c-command domain. If such an analysis is on the right track, it is able to unify both the quotational and non-quotational instances of RS, as it does not link context shift to an overt attitude predicate. However, in cases of lexically introduced RS, it remains to be determined how the overt attitude predicate interacts with the empty PVOp, as both seem to fulfill the same function in the analysis. For a minimal variant of example (27) with lexically introduced RS, we would have to posit a structure like the one under (31). The extra assumption required would be that the two attitude operators compose semantically as a result of the incorporation of PVOp into the lexical verb (a comparable movement of the head Speech Act into the selecting predicate has been put forth in Speas 1999). At this point, though, the details and consequences of such a proposal remain to be worked out.



In contrast to other analyses, the one sketched here does not reduce the issue of RS to the interpretation of 1st person pronoun (Zucchi 2004), since other contextual variables display a comparable pattern of behaviour. It offers strong confirmation for the idea that context variables (author and addressee, time, location) in a derived context can be bound independently from each other by an attitude operator or identified with the value of the parameters in the main context of utterance.

6. Some Consequences

6.1. Independent Shift of Indexicals

On the basis of the SL data discussed here, one is forced to relativize the crosslinguistic validity of the “Shift-Together Constraint” (see (32)) proposed in Anand & Nevins (2004) for Slave and Zazaki.

(32) *Shift-Together Constraint*

Shiftable indexicals must shift together.

(Anand & Nevins 2004)

As we have seen, when indexical pronouns (1st and 2nd person) shift under RS, locative and temporal indexicals can still refer to the actual context of utterance,

which appears to instantiate direct deixis in their unmarked interpretation. In addition, under appropriate circumstances some of them can shift, too, with some exceptions that must be derived from their lexical specification. However, it is not clear either that all pronouns in a sentence must shift together, as we find examples of shifted 1st person next to a non-shifted 2nd person in a reported context (see (22) above). Such cases deserve further investigation before they can be consistently incorporated into the general picture.

6.2. Quantifier Binding of Shifted Pronouns

Furthermore, additional support can be offered for Schlenker's (2003) binding analysis of contextual variables with fresh evidence from SL showing quantifier bound readings of a shifted first person pronoun within the scope of RS. The LSC instances of this are the following ones:

- (33) _____t _____eg:l _____eg:front RS-i
 PUPIL ALL_i THINK^SEE.refl IX-1_i INTELLIGENT SUPERLATIVE
 'Every pupil thinks that he is the most intelligent.'
- (34) _____t _____eg:l _____eg:front RS-i
 PUPIL EACH_i THINK^SEE.refl IX-1_i INTELLIGENT SUPERLATIVE
 'Each pupil thinks that he is the most intelligent.'

A comparable case was independently observed for Abe by Koopman and Sportiche (1989): in (35) a 3rd person referential pronoun (akin to the behaviour of 1st and 2nd person pronouns) can be bound by the main quantificational NP subject. Their hypothesis is that this is made possible by the occurrence of the complementizer *kO*. Similarly, for the SL cases in (33)-(34) I would like to tentatively suggest that it is the covert PVOp what mediates in the bound reading of the embedded subject pronoun.

- (35) apoOUN_i γe hE kO n_i ye SE
 nobody Neg said Comp he is handsome

(Koopman & Sportiche 1989: 584)

Note in passing that the SL examples discussed in this subsection constitute strong support for the idea that pronominal indices are actual pronouns, and not just pointing/mostly gestural expressions, as has been often defended in the literature, most prominently by Liddell (see for instance Liddell 2000 for an overview of this position; in favour of the linguistic status of pronouns, with an argument from RS, see Meier 1990).⁷

6.3. *Is PVOp A “Monster”?*

As a consequence of the overall discussion of SL data in this paper, one can defend that Kaplanian indexical “monsters” do exist in SLs. The PVOp we find in SLs instantiate such a monster, as shiftable indexicals in its scope are not “directly referential” to the main context of utterance. Zucchi (2004) offers a unified analysis of the quotational and non-quotational RS in terms of the presupposition associated with the 1st person morphology in RS, namely that the 1st person is coindexed with another term in the discourse other than the utterer. However, this might be a simplification, because we have already seen that the referential shift in these constructions can also affect 2nd person pronouns/agreement, locative and time indexicals, and sometimes independently of each other when they cooccur. A further piece of evidence of context-dependent elements that shift are affective elements such as FED-UP in (36): they get interpreted with respect to the shifted 1st person, and not with respect to the actual utterer.

- (36) ANNA_i IX-3 3-TELL-2 IX-1_i FED-UP LOSE+++^{RS-i}
 ‘Anna told you that she is fed up with losing all the time.’

7. Concluding Remarks

Indexical shift seems to be pervasive within what is known as RS, which is present in most if not all SLs described to a bigger or smaller degree. It has been mostly attested for pronominal reference shift (and corresponding verb agreement), but there is little discussion in the literature about other indexicals like temporal and locative deictic expressions. The phenomenon of indexical shift in reportive/attitude contexts described in less familiar spoken languages seems to be extremely robust in SLs.

The main points of the discussion can be summarized as follows:

- (i) RS in SL has properties of both direct and indirect reported discourse, as in several spoken languages.
- (ii) The interpretive and morphological properties of RS can be derived from a Point of View Operator.
- (iii) Quotational and non-quotational instances of RS can be accounted for in a unified fashion, as in Zucchi (2004).
- (iv) Indexicals in RS (1st 2nd person pronouns, locative and time indexicals) can all shift under appropriate conditions.

This work constitutes just a first attempt at addressing in SL the same kinds of questions raised in the semantics literature on indexical reference in

reportive contexts. As we have seen, despite the effects of the visual-gestural modality, some of the the “uncommon” facts described for certain spoken languages are replicated in SLs. This allows us to evaluate the empirical crosslinguistic validity of concrete aspects of recent proposals on indexical shifting.

One question, though, that I have only hinted at in section 6.2 is the *a priori* possible modality effect in shifting reference in reportive contexts. As mentioned there, it has been claimed that SLs do not have actual pronouns and that what we have been calling pronouns here must be reduced, at least in part, to pointing or indicating gestures. Some of the phenomena discussed here obviously argue against such a position. Still, there remain quite important issues to be addressed in this domain, such as the relation between actual deixis and grammaticalized deixis in SLs, but these are questions that must await future work.

Endnotes

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¹If not indicated otherwise, the examples appearing in this paper are from LSC.

²I follow the usual glossing conventions in the SL literature, according to which manual signs are represented by the capitalized word corresponding to the translation of the sign. The scope of nonmanual markings is represented with a line that spreads over the manual material with which it is coarticulated. The relevant abbreviations for the purposes of this paper are the following ones: #-VERB-# (verb agreeing with subject and object; the number before the verb refers to the grammatical person of the former and the one after the verb refers to the latter); AGR (unbound agreement marker); eg (eyegaze); IX_a (locative index pointing to locus *a*); IX-# (pronominal index; the number corresponds to person); hs (negative headshake); RS (role shift); t (topic marking); wh (wh marking); +++ (repetition of the sign). The referential indices *i, j*, etc. link the first person role in RS fragments to the intended author of the reported utterance.

³Pronominal reference in the singular is typically realized in SLs as an index (glossed as IX) consisting in a pointing handshape that is oriented towards present referents (IX-1=author, IX-2=addressee, IX-3=[-author, -addressee] present

referent). Non-present referents are localized in a locus of the signing space to which IX points.

⁴The first translation is the one offered originally by Lee et al. (1997), but in order to remain neutral as to the direct/indirect character of RS, the indirect report version in English has been added.

⁵In the oral presentation of this work at SALT 15, some colleagues in the audience rejected Schlenker's characterization of these facts with "two days ago". Pending further examination, I keep it in the written version for the sake of Schlenker's argument.

⁶Most of the SLs documented to date group their verbal lexical items in three main categories according to their behaviour with respect to agreement: (i) plain verbs, which do not agree; (ii) agreeing verbs, which display agreement with subject and/or object, and (iii) spatial verbs, which agree with their locative arguments (see Padden 1988). Some languages have additional means to show agreement with plain verbs, like agreement auxiliary predicates. The AGR sign in (19) is such a case in LSC.

⁷This argument becomes more forceful if pronouns turn out to be bound by a negative quantifier in the main clause or by a second person plural subject. The LSC data elicited so far seem to confirm this prediction. Thanks to Gennaro Chierchia for making this point.

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