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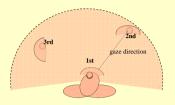
THE SYNTAX OF PRONOMINAL POINTING SIGNS IN ITALIAN SIGN LANGUAGE (LIS)

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POINTS OF SPACE AND ITS FEAUTURES

- •In sign languages, indications are a system to establish reference and co-reference.
- They can belong to different categories; demonstratives, articles, and personal pronouns.
- The pointing sign encodes the space features [±prox, ±dist] (i.e., proximality to or distality from the speaker and the addressee).



Participants: speaker(s), addressee(s)

1st person pronouns: Specific point on the speaker's body [+prox] 2nd person pronouns: Specific point in the space identified by the speaker's eye gaze [-prox]

3rd person pronouns/demonstratives: Specific point in the space outside of the speaker's eye gaze [+dist]

Non-identified element(s):

Impersonal pronouns: Neuter space (any point in the space outside of the speaker's eye gaze) [-dist] cf. Harley and Ritter (2002), Bertone (2007)

THREE CLASSES OF PERSONAL PRONOLING IN LIS

To classify personal pronouns, we took into account:

- their semantic properties: anaphoric vs. non-anaphoric
- their syntactic distribution;
- their prosodic properties:
- the pause between the indication and previous or following signs,
- the possibility of reduplicating the pointing.
- the duration of indication, measured in the number of frames or fractions of seconds.

Strong pronouns:

- can be non-anaphoric, i.e. they can introduce a new referent into discourse;
 have the same distribution as full NPs and can be substituted by a proper noun or a
- a pause after the pointing sign can be present; reduplication is possible; long time of holding the pointing.

Clitic pronouns:

- · must be anaphoric;
- have a special distribution: always adjacent to the verb;
 no pause (are co-articulated with the verb); no reduplication; short time of holding the pointing (sometimes it is imperceptible).

Weak pronouns:

- · must be anaphoric; have a special distribution, but need not be adjacent to the verb

In the following sentence, the numbers on each indication are the rate of pronominal pointing signs:

Rate 1 corresponds to a strong pronoun (about 1/2 of second - 7-13 frames)* Rate 2 corresponds to a weak pronoun (about 1/6 of second - 4 frames)*

Rate 3 corresponds to a clitic pronoun (about 1/12 of second - 1-2 frames)*

*The time is subjective, it differs from signer to signer. But in one and the same signer, it is possible to differentiate the time of holding the pointing. The programme I-movie counts 24 frames per second

relative clause 1 3 1 2 3

IX10 OBLIGED TAXI IX10 CATCH IX CAR-IX-MAN IX-TELL-IX10 BUS ON-STRIKE

I was forced to take a taxi. The taxi driver told me that busses were on strike.

The indications "1p" refer to the 1st person. The indications "j" refer to the taxi driver (3rd person).

> The rate 1 pronouns do not have an antecedent. They can be reduplicated

The first indication (blue) is the subject of the first sentence; the third indication (purple) introduces a new referent: the following NP containing a reduced relative clause. (CAR, IX, MAN: non-manual expressions such as dimpled cheeks and squinted eyes found with full relative clauses). (See the figures)

The rate 3 pronouns are anaphoric: the second pronoun (pink) refers to the first occurrence of the 1st person pronoun; the fifth and the sixth pronouns (green) refer to the taxi driver and the first person, respectively.

They are adiacent to the verb: see the OSV order, where the object TAXI precedes the pointing sign. These two pronouns are co-articulated with the verb: they share the handshape with TELL; furthermore, the movement starts from point (i), where the subject is located, pass on the lips, where it means TELL, and ends up on the signer's body , that is the 1st person. (See the figures)

The rate 2 pronoun is contained in the complex expression CAR-IX-MAN. Another occurrence of a rate 2 pronoun is in the following sentence:

BOOK IX,10 GIVE PETER. BOOK, PE IX,++, IX,10 PETER GIVE The indication "1p" refers to the 1st person. The indications "j" refers to the book (3rd person)

This book, I have given to Peter

> The rate 2 pronoun is anaphoric on the first occurrence of the first person pronoun and is separated from the verb by the object PETER.

Relative clause MAN CAR



STRUCTURE WITH A CLITIC PRONOUN

THREE CLASSES OF PERSONAL PRONOUNS IN UNIVERSAL GRAMMAR

Cardinaletti (1994), Cardinaletti & Starke (1999) distinguished three classes of pronouns in spoken languages:

strong: e.g. English him in coordination: I saw Ihim and his wife!

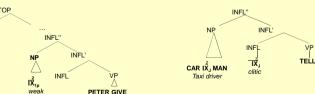
weak: e.g. English him and it, e.g. outside of coordination, where they can be reduced:

clitic: e.g. French le: je l'ai vu

STRUCTURE WITH A STRONG PRONOUN



STRUCTURE WITH A WEAK PRONOUN



NEW PERSPECTIVES ON THE NULL ARGUMENT PARAMETER

- Non-agreeing verbs (contact with the signer's body) must co-occur with pronominal pointing signs →no null arguments
- With agreeing verbs, pronominal pointing sign can be absent → null arguments. (Lillo-Martin1991)

If space features can be considered as the extreme contraction of the pointing sign, we could suggest that agreeing verbs do not co-occur with null arguments but with clitic pronouns.

Morphological agreement on agreeing verbs is the movement component in their articulation.

weather verbs can "agree" with the space upwards (i.e., co-occur with a clitic) (2), towards which a possible pronominal pointing sign is directed (1); they may not "agree", in which case we claim that no clitic pronoun is incorporated into the verh:

- ointing upwards RAIN+++ (2) RAIN+++articulated upwards
- RAIN+++ articulated in the space in front of the signer

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