



THE COMMUNICATIVE STRATEGIES

Sentence topics in Italian Sign Language (LIS)

Chiara Calderone, XXXII course



RESEARCH QUESTIONS

1. How many types of sentence topic exist and how they are realized?
2. How information is managed among signers and reintroduced into the discourse?
3. Which is the syntactic distribution of sentence topic types?

IDENTIFICATION CRITERIA

"Topics have been identified as those entities which were previously introduced into the discourse, except for scene-setting topics which establish the framework within which the sentence is interpreted"
Reinhart 1981, Götze et al. 2007, Sze 2011.

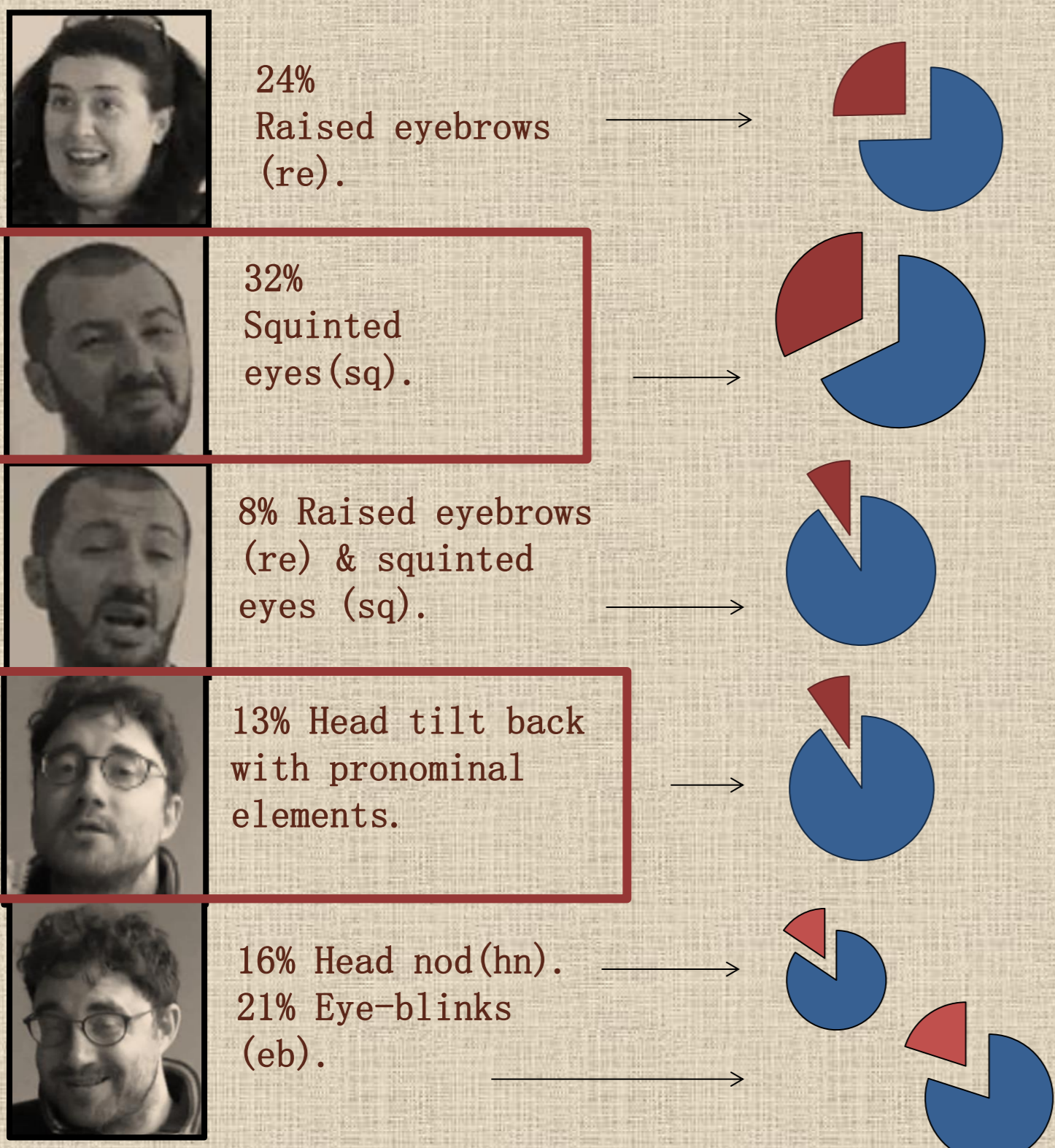


DATA COLLECTION (2262 items)

- > Spontaneous data: Story-telling (1171 AbT, 274 SsT items). Monologues (484 AbT, 64 SsT items).
- > Elicited sentences (89 AbT, 120 SsT, 60 CT items).
- > 9 native signers from the northern part of Italy (mean age 36, range 21-52).
- > Annotation software ELAN, statistics EXCEL, "R".

ABOUTNESS TOPIC (AbT): An entity already shared between signer and interlocutor about which the sentence adds something new'. Reinhart 1981; Gundel 1988b; Frascarelli & Hinterhölzl 2007, Sze 2008, Kimmelman 2014.

NON-MANUAL MARKERS



Unmarked AbT: 31%

CONTINUED TOPIC AND SHIFTED TOPIC

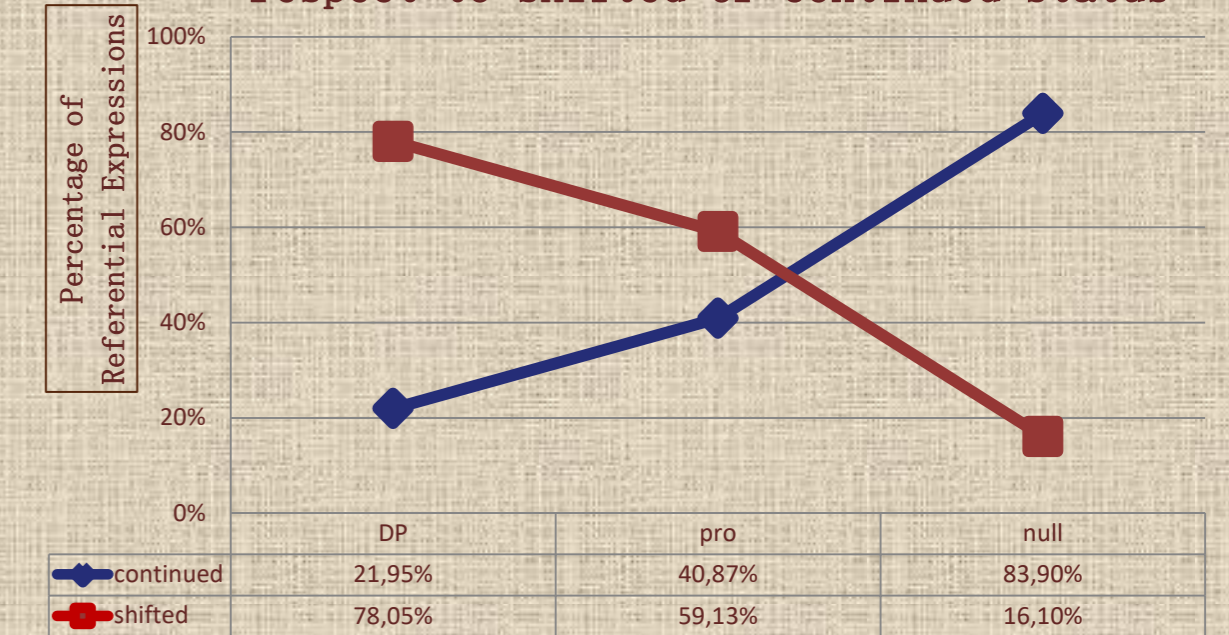
(1) [...] BEAR CL: LAY_DOWN 72/ Ø TAKE BANANA 73/ Ø THROW_AWAY 74/ Ø CL: sq
STAND_UP 75/ Ø CL: WALK 76/ Ø CL: TRASH_CAN_RAISE 77/ Ø CL: TOP_OPEN 78/
THERE_IS BONE 79/ Ø CL: LOOK_AT 80/ LITTLE DOG FARAWAY SLEEP 81/ Ø SNORE 82/
BEAR CL: LOOK_AT 83 [...]

'[...] The bear lays down, takes off the banana (from his face) and throws it away, then (he) stands up and walks. (He) raises the trash can and opens the top. There is a bone, (he) looks around, the little dog is sleeping far away, snoring. The bear looks at him[...]



- > Nominals are significantly correlated to the use of sq (odds:7.55, p<0.001)
- > Nominals are significantly correlated to shifted topics (odds:3.86 p<0.001)

Main referential expressions with respect to shifted or continued status



THE ACCESSIBILITY THEORY

Givón 1983, Ariel 1991, Perniss & Özyürek 2014, Frederiksen & Mayberry 2016, Czubek 2017, Ahn 2019

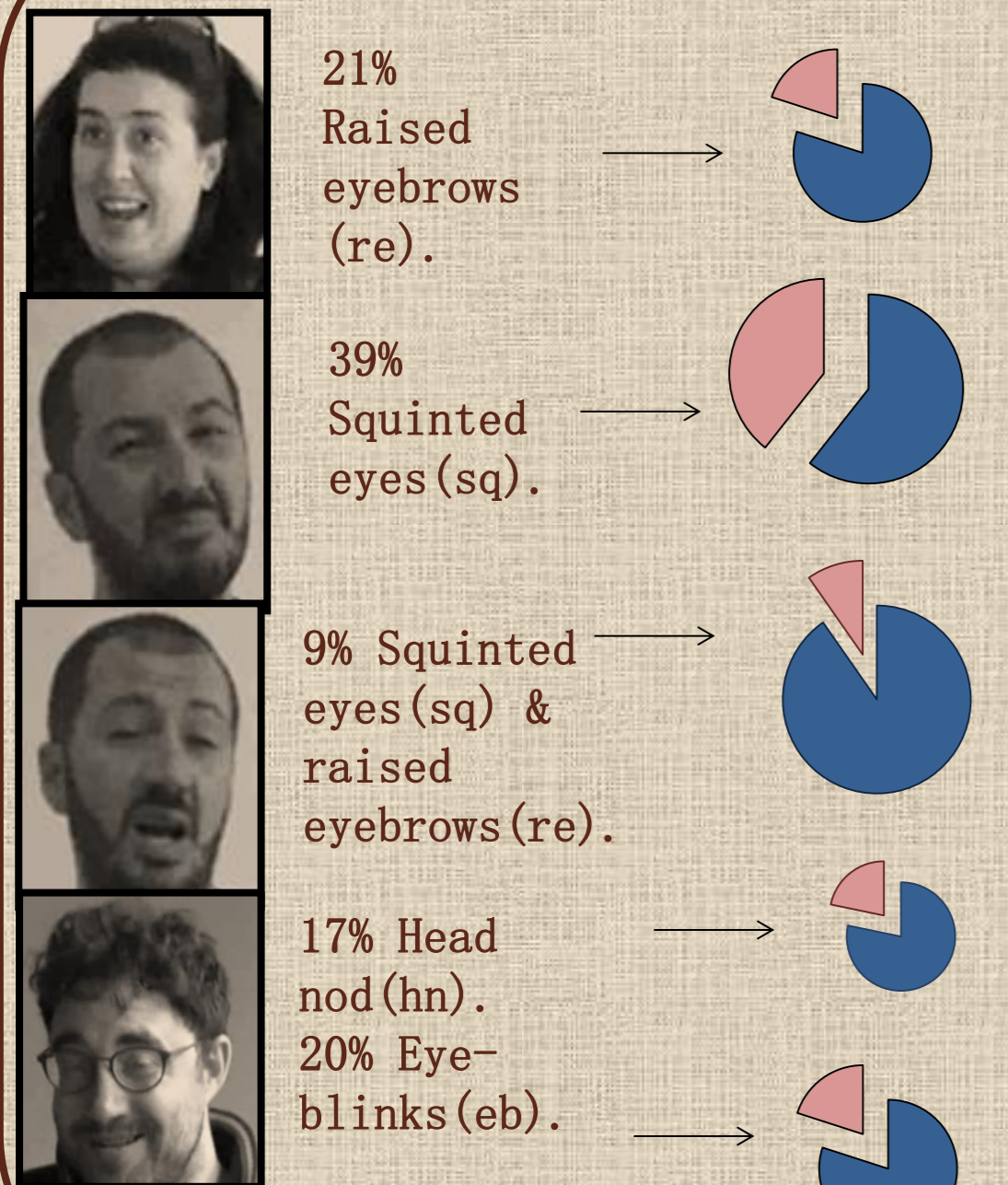
	Sentential Distance (0-639)	Number of Competitors (0-59)	Sentential Distance in cleaned-up data (0-15)	Number of Competitors in cleaned-up data (0-6)
Nominals	9.15	2.33	3.30	0.70
Pronouns	5.10	0.90	3.00	0.50
Nulls	2.15	0.20	1.60	0.15

- > The more an element is salient, the less linguistic material needs for identifying it and viceversa.

- > Other factors, such as the sentential distance between the antecedent and its anaphoric resumption, and the number of competitors which are introduced within this distance may affect the syntactic choice of the signers.

SCENE-SETTING TOPICS (SsT): Frame setters which establish the background in which the main predication holds. Chafe, 1976; Krifka 2008

NON-MANUAL MARKERS



Unmarked SsT: 28%

re eb+hn re sq
1) TODAY, PARK, JOHN, DOG POSS, CAT GROWL
'Today, in the park, John's dog growls at the cat'. [Ma_eIA_06]

sq hn
2) HOUSE INSIDE SASS: ROUND HAT CL:BE_AT
'Inside the house, the hat was hanging.' [De_st1_05]

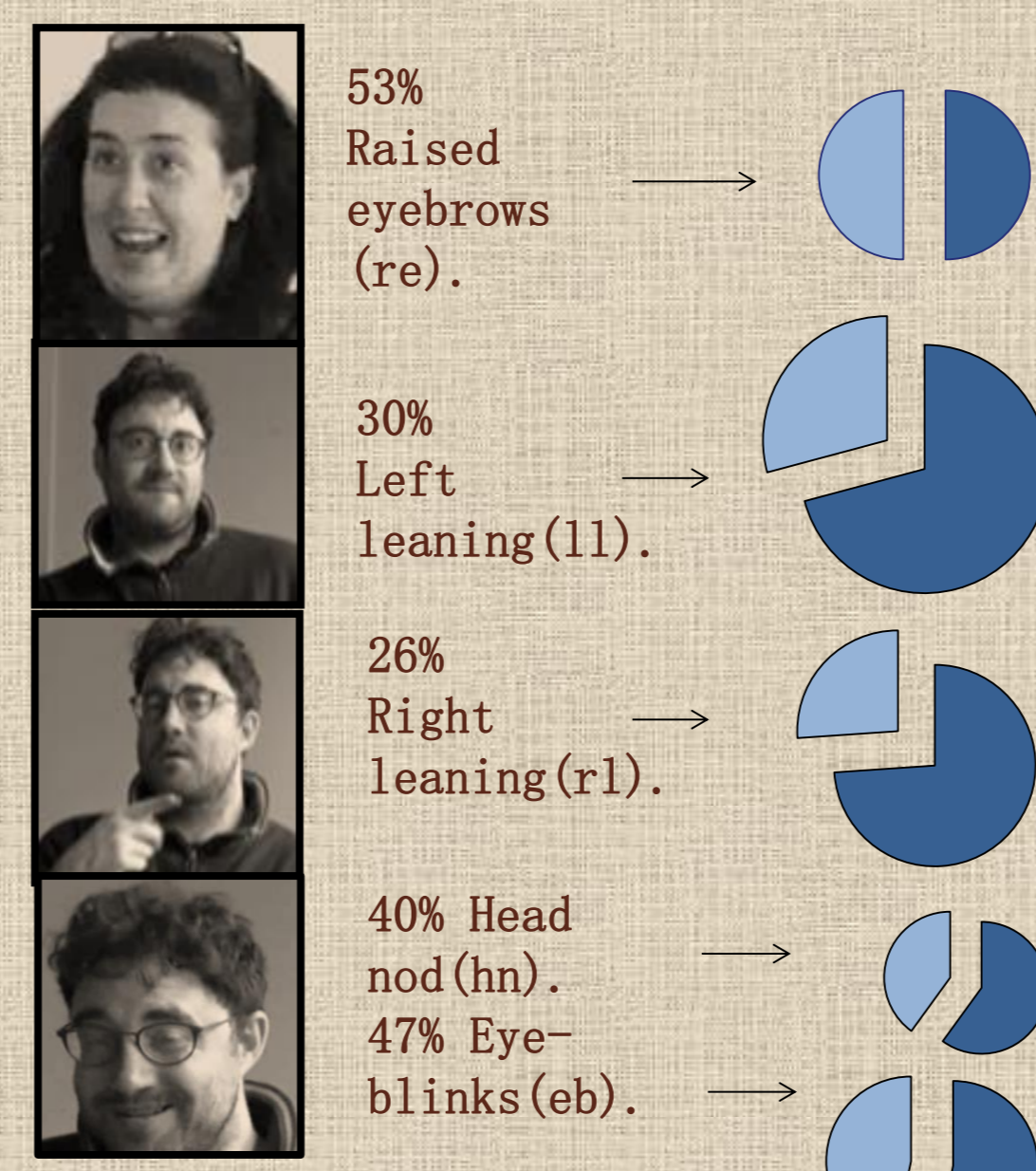
sq
3) HOUSE IX-3 PE ROOM SLEEP
'Inside the house, in the room, the man was sleeping.' [De_st1_05]

SYNTACTIC DISTRIBUTION
SsTopTime*>SsTopLoc*>(...)

*This topic type can recursively appear within a sentence.

CONTRASTIVE TOPICS (CT): They split an issue in sub-issues, by creating a parallel opposition between two or more entities. Wilbur & Patschke 1998, Krifka 2008, Navarrete González (in prep.).

NON-MANUAL MARKERS



Unmarked CT : 7%

re eb+hn Ir
1) DOG, IX-3, JOHN, LOVE,
MARY, HATE,

'The dog, John loves him, Mary hates him'.

eb+hn eb+hn hn
re sq sq
2) YESTERDAY, RESTAURANT FISH JOHN
EAT DONE IN_CONTRAST PIZZA LEAVE

'Yesterday, at the restaurant, John ate the fish and lefts the pizza'.

The study on contrastive topic is preliminary and requires further research because of the paucity of data.

FINAL OBSERVATIONS and CONCLUSIONS

- > Different prosodic contours accompany the three types of topics. AbT and SsT share similar markers, such as raised eyebrows and squinted eyes. Conversely, the CT displays specific markers, such as left and right body leaning.

- > In line with spoken languages, LIS signers choose the syntactical codification of information depending on the status and the degree of accessibility which is assumed for the entities under discussion.

SYNTACTIC DISTRIBUTION

In line with other studies (Rizzi 1997, Benincà & Poletto 2004, Frascarelli & Hinterhölzl 2007, Brunelli 2011), the syntactic hierarchy in LIS is:

SsTopTime*>SsTopLoc*>AbTop>TopContr>[...IP...]

Sst-time Sst-location Abt
(4) YESTERDAY GARDEN MARY_k CAT POSS_k MOUSE_j BEAT_j
'Yesterday, in the garden, the Mary's cat beat a mouse'. [Ma_eIA_09]

*The position is recursive, namely it may appear more than one time within a sentence

ACKNOWLEDGMENTS

Thanks to the signers which have make possible this study: Mirko Pasquotto, Debora Caboni, Rosella Ottolini, Mauro Mottinelli, Filippo Calcagno, Naomi Carcano, Fabio Zamparo, Gabriele Caia, Laura Di Gioia.

This study was possible also thanks to the funding of the Ca' Foscari University of Venice and to the SIGN-HUB European project «Preserving, researching and fostering the linguistic, historical and cultural heritage of European Deaf signing communities with an integral resource».

SELECTED REFERENCES

- [1]Aarons, D. 1994. Aspect of the Syntax of American Sign Language. [2] Ahn, D. 2019. Anaphoric expressions in ASL. [3] Bertone & Cardinaletti 2011. Il sistema pronominale nella Lingua dei Segni Italiana. [4] Ariel, M. 1991. The function of accessibility in a theory of grammar. [5] Brunelli, M. 2009. La "sinistra" periferia sinistra: sintassi della Lingua dei Segni Italiana, analizzata alla luce dell'Antisimmetria e dello split-CP". [6] Brunelli, Michele. 2011. *Antisymmetry and sign languages: A comparison between NGT and LIS*. [7] Chafe, W. 1976. Givenness, contrastiveness, definiteness, subject, topics, and point of view. [8] Czubek T.A. 2017. A comprehensive study of referring expressions in ASL. [9] Dachkovsky S., Sandler W. (2009). Visual Intonation in the Prosody of a Sign Language. [10] Frascarelli, M. & Hinterhölzl R., 2007. Types of Topics in German and Italian. [11]Gundel, J. 1985. 'Shared Knowledge' and topicality. [12] Frederiksen, A.T. & R.I. Mayberry, 2016. Who's First? Investigating the referential hierarchy in simple native ASL narratives. [13] Kimmelman, Vadim. 2014. Information Structure in Russian Sign Language and Sign Language of the Netherlands. [14]Kimmelman, V. & Pfau R., 2016. Information Structure. [15]Krifka, M. 2008. Basic notions of information structure. [16] Perniss, P. & A. Özyürek. 2014. Visible Cohesion: A Comparison of Reference Tracking in Sign, Speech, and co-Speech Gesture. [17] Reinhart, T. 1981. Pragmatics and Linguistics: an analysis of sentence topics. [18] Rizzi, L. 1997. The fine structure of the left periphery. [19] Sandler, W. 2010. Prosody and Syntax in Sign Language. [20] Sze, F. 2013. Nonmanual marking for topic constructions in Hong Kong Sign Language. [21]Wilbur, R. B. & Patschke C. 1998. Body leans and marking of contrast in American Sign Language. [22]Wilbur, R. B. & Patschke C. 1999. Syntactic correlates of Brow Raise in ASL. [23]Wilbur, R. B. 1999. Stress in ASL: Empirical evidence and linguistic issues. [24]Wilbur, R. B. 2012. Information Structure.