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NOCANDO: A multilingual annotated corpus for the study of Information Structure

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Outline of the presentation

- ❖ The project: theoretical goals
- ❖ The corpus:
 - ❖ quantitative information
 - ❖ participants
 - ❖ methodology
 - ❖ transcription and segmentation
 - ❖ annotation
- ❖ Corpus exploitation
- ❖ Future work

The project

The project

NOCANDO: Construcciones no-canónicas en el discurso oral : un estudio transversal y comparativo
(‘Non-canonical constructions in oral speech:
a crosslinguistic perspective’)

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(‘Non-canonical constructions in oral speech:
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Funded by the Ministerio de Educación y Ciencia de España
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Principal investigator: Enric Vallduví

Reserach group: Grup de Lingüística Formal (GLiF) <http://parles.upf.edu/glif/>
Dep. Traducció i Ciències de Llenguatge
Universitat Pompeu Fabra, Barcelona

Collaborators: Lisa Brunetti, Stefan Bott, Joan Costa, Estela Puig Waldmüller,
Teresa Suñol, Louise McNally, Josep Maria Fontana, Alex Alsina.

The project

Goal

NOCANDO seeks to establish a cross-linguistically valid taxonomy of **non-canonical constructions (NOCANS)**.

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What is a NOCAN?

A morphologically, syntactically and/or prosodically marked construction from the point of view of the properties of a language.

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What is a NOCAN?

A morphologically, syntactically and/or prosodically marked construction from the point of view of the properties of a language.

What is the function of a NOCAN?

NOCANs optimize the way the informational content of a sentence is conveyed (Vallduví 1992). NOCANs are explicit marks of the INFORMATION STRUCTURE of the sentence.

The project

Examples of NOCANS

- (1) Al hombre se le cae el café
to-the man RFL to-him falls the coffee
Ind. Object obj.cl. Verb Subject
“The man drops the coffee”

The project

Examples of NOCANS

(1)	Al hombre	se	le	cae	el café		
	to-the man	RFL	to-him	falls	the coffee		
	Ind. Object		obj.cl.	Verb	Subject		
	“The man	drops the coffee”					

**Clitic Left
Dislocation**

The project

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Al hombre
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“The man”

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Topic

Comment

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**Clitic Left
Dislocation**

(2) Pure la LINGUACCIA,
even the tongue
Dir. Object

“Even the tongue”

gli fa, la rana.
to-him he-puts-out the frog
 Verb Subject

did the frog put out to him”

The project

Examples of NOCANS

(1)	Al hombre to-the man Ind. Object “The man”	se le cae el café RFL to-him falls the coffee obj.cl. Verb Subject drops the coffee”	Clitic Left Dislocation
	Topic	Comment	
(2)	Pure la LINGUACCIA, even the tongue Dir. Object “Even the tongue”	gli fa, la rana. to-him he-puts-out the frog Verb Subject did the frog put out to him”	Focus Fronting

The project

Examples of NOCANS

(1)

Al hombre
to-the man
Ind. Object
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Verb Subject
“did the frog put out to him”

Focus

Background

**Focus
Fronting**

The project

Examples of NOCANS

- (3) - I no se n'adona que la granota s'ha posat a davant
and not realizes that the frog herself has put in front
- i és ELLA que està a punt de prendre's el biberó
and is her who is about to take for-himself the baby-bottle

“And she does not realize that the frog placed himself before the baby and it's him who is going to drink from the bottle”

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Cleft

“And she does not realize that the frog placed himself before the baby and it's him who is going to drink from the bottle”

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Examples of NOCANS

- (3) - I no se n'adona que la granota s'ha posat a davant
and not realizes that the frog herself has put in front
- i és ELLA and is her **que** està a punt de prendre's el biberó
who is about to take for-herself the baby-bottle

**Contrastive
focus**

Background

Cleft

“And she does not realize that the frog placed himself before the baby and it's him who is going to drink from the bottle”

The corpus

- ❖ quantitative information
- ❖ participants
- ❖ methodology
- ❖ transcription and segmentation
- ❖ annotation

The corpus: general information

Spontaneous narrations in Catalan, Italian, Spanish, German, and English.

Total number of speakers: **68**

Total number of narrations: **222**

Total duration: ca **16 h** (2'-10' per narration)

	Catalan	Italian	Spanish	German	English
Speakers	19	16	13	9	11
Recording time	4:02:43 h	4:04:32 h	2:35:20 h	2:09:13	2:32:20 h
Word count (linux/cygwin)	37555 w	27392 w	25077 w	15944 w	21970 w (es)
Segment count	5856 seg	4306 seg	3801 seg	2154 seg	3140 seg (es)

The corpus: participants

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Mostly **students** at the **Universitat Pompeu Fabra** in **Barcelona**.
A smaller number from different working environments.

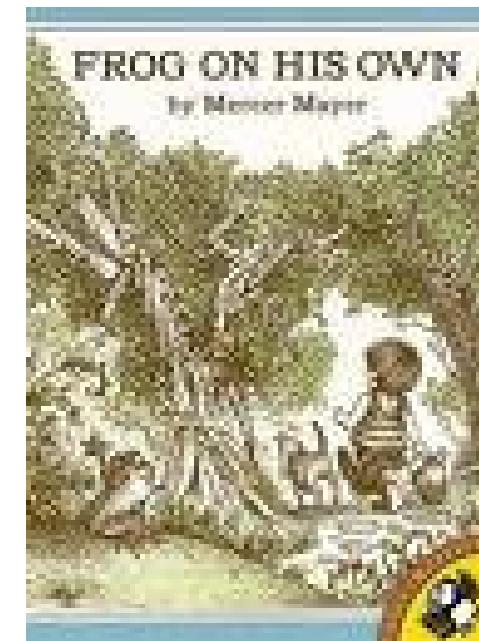
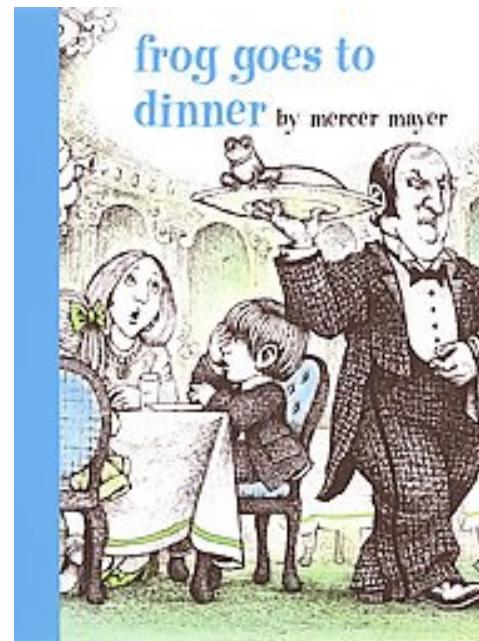
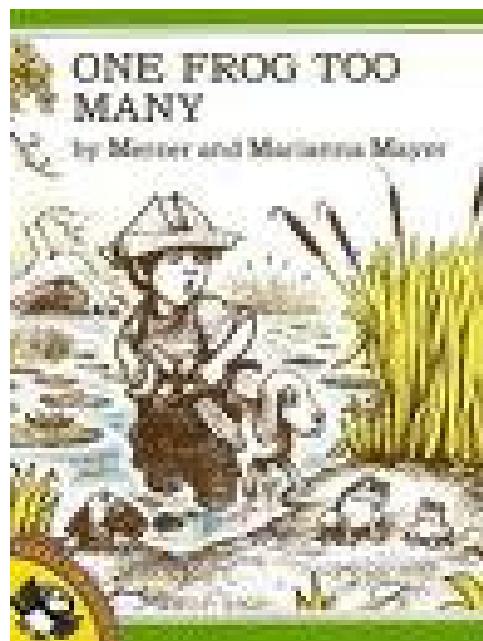
	Catalan	Spanish	Italian	German	English
Geo-graphical origin	Catalonia (except one from Comunitat Valenciana)	Catalonia (except one from Castilla y León)	Different parts of Italy	Different parts of Germany	Different parts of USA and UK
Mean age	22 (18-30)	20 (17-29)	29 (20-56)	34 (22-67)	27 (20-41)

The corpus: methodology

The corpus: methodology

Speakers narrated the stories of three text-less picture story books by Mercer Meyer: *Frog goes to dinner*, *Frog on his own*, *One frog too many*.

Cf. Berman and Slobin 1994, Strömqvist & Verhoven 2004



The corpus: methodology

Speakers told the experimenter the stories in a random order.
Speakers could browse the book before starting the narration.

A questionnaire was filled by speakers concerning age, geographical origin, personal language history.



The corpus: transcription & segmentation

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Orthographic transcription based on the LIP corpus (De Mauro et al. 1993).

Truncated phrase or sentence	la tortug-- la granota
Pauses	#, ##, ###
Unintelligible words	[?], [?], [??]
Missing part	[...]
Reconstructed broken word	sta[te]
Truncated word	-pe-
Vocalic lengthening at the end of a word	bueno_
Extra-linguistic comment	[LAUGHS]
Phonetic symbol	[ffff]
Hesitation	hm
Standard phrasing symbols:	(,), (.) (?) (!)

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Segmentation

One clause – one line

- subordinate clauses included (cf. CHILDES).
- Temporal/aspectual and modal verb periphrases excluded.
(Criteria to identify periphrases: Gavarró and Laca 2002).

The corpus: Annotation

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An annotation of NOCANs is realized for **Catalan, Italian, and Spanish**.

Cf. MULI corpus, *Baumann 2006*.

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Why these languages?

- Similar linguistic properties (relatively free word order, null sbj, SVO, Obj Cl Pro..)
- Similar strategies to express informational notions:
 - large use of syntax
 - limited use of prosody (cf. English) Vallduví and Engdhal 1996
- **Similar or identical NOCANS**

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- **Similar or identical NOCANs**

However, NOCANs of these languages may vary in terms of:

- frequency (e.g. clrd in Catalan vs Spanish, Villalba 2007), Leonetti 2008
- function (e.g. subject inversion in Spanish vs Italian)

The corpus: Annotation

NOCANS concerning the subject

The corpus: Annotation

NOCANS concerning the subject

sbjinv = subject inversion (the subject occurs after the verb)

- (4) Els va acompañar el taxista. Catalan
them PAST take the taxi-driver
'The TAXI-DRIVER drove them'

sbjinv deacc = post-verbal deaccented subject in a declarative sentence.

- (5) ...que està disfressat, aquest nen. Catalan
for is dressed-up this child
"...for this child is dressed up"

The corpus: Annotation

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for is dressed-up this child
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nsbj = null subject (the subject is not expressed)

- (6) Invece il bambino è molto contento, perché ha salvato la sua rana. Italian
instead the boy is very happy because has saved the his frog
'The boy on the contrary is very happy, because he saved his frog'

nsbj c = null subject in an coordinate clause

The corpus: Annotation

NOCANs concerning the subject

arbnsbj = arbitrary subject (which is null in these languages, cf. Jaeggli 1986)

- (7) Y un día a este niño le regalaron pues una caja muy grande Spanish
and one day to this boy to-him they-gave well a box very big
'And one day this boy received a large box'

sbj-sep = separation of the (preverbal) subject from the verb by sentential adverbials or other material that has scope over the entire clause

- (8) però la rana come al solito riesce a infilarsi nella_ nella situazione
but the frog as the usual manages to sneak-herself into-the into-the situation
'but the frog, as usual, manages to sneak into the the,,, situation' Italian

The corpus: Annotation

NOCANs concerning all arguments

cld = clitic left dislocation An argument dislocated to the left and resumed by a clitic pronoun (cf. Benincà 2001, Zubizarreta 1999, Cinque 1990)

- (9) **A l hombre** se **le** cae el café. Spanish
to-the man RFL to-him the coffee
“The man drops the coffee”

ld = left dislocation Dislocation to the left WITHOUT clitic resumption

- (10) **A un bambino** un giorno arriva un regalo. Italian
to a boy one day arrives a present
“One day a boy receives a present”

ht = hanging topic A left dislocated NP resumed by a pronoun expressing its grammatical function. (cf. Benincà 2001, Zubizarreta 1999)

- (11) **La rana grande**, la situación no **le** gustaba mucho. Spanish
the frog big the situation not to-her pleases much
“As for the big frog, she didn’t like the situation at all”

The corpus: Annotation

NOCANs concerning all arguments

clrd = clitic right dislocation An argument dislocated to the right and resumed by a clitic pronoun. (cf. Benincà 2001, Zubizarreta 1999)

- (12) el gat ja I'ha vist, a la granota Catalan
the cat already it has seen to the frog
“The cat already SAW the frog”

rd = right dislocation Dislocation to the right WITHOUT resumption

- (13) y le muerde [...] el anca a la otra ranita, la rana grande. Spanish
and to-him he-bites the hip to the other little-frog, the frog big
“and the big frog bites the other frog’s hip”

cldbl = clitic doubling It differs from clrd in that the doubled argument is in the same intonational contour as the verb (focus domain).

- (15) Entonces la tortuga lo ve y se lo dice al niño. Spanish
so the turtle it sees and to-him it says to-the boy
“So the turtle sees what happened and tells the boy everything”

The corpus: Annotation

NOCANs concerning all arguments

obj-sep = separation of the (postverbal) direct object from the verb

(16) Y cogió en su mano a la ranita pequeña

Spanish

and he-took in his hand to the frog little

“And he took the little frog into his hands”

narg = null argument

(17) i llavors en Jaume es va adonar que que, home, era la seva granota Catalan

and then the Jaume RFL PAST realizes that that well it-was the his frog

“and therefore Jaume ralizes that that, well, it was his frog”

The corpus: Annotation

NOCANs concerning all arguments

focfr = focus fronting: A left peripheral element with focal stress (Benincà 2001, Rizzi 1997, Zubizarreta 1998)

- (18) veu una dona que està amb un cotxet; així de LLUNY la veu. Catalan
sees a woman who is with a baby-carriage like-that from far her he-sees
“He sees a woman with a baby carriage; she sees it from far away”

deacc = de-accenting

- (19) ma Lara non è molto simpatica, con questa rana. Italian
but Lara not is very nice with this frog
‘But Lara is NOT very nice, towards this frog’

The corpus: Annotation

NOCANs concerning clauses

pres = presentational sentences

- (20) C'era una volta un bambino
there was one time a boy
“Once upon a time there was a boy”
- Italian

pass = passive construction

- (21) la familia de William es expulsada del restaurante.
the family of William is expelled from-the restaurant
“William’s family is expelled from the restaurant”
- Spanish

impers = impersonal construction

- (22) e lui continua hm a indicare non si sa dove.
and he keeps hm to point not IMP knows where
‘And he keeps pointing who knows where’
- Italian

The corpus: Annotation

Types of clauses

cleft = cleft sentences

Construction: Verb 'to be' + XP + 'that' S without XP

- (23) Era ese SAPO que les había querido hacer algún susto Spanish
“It was the frog who wanted to scare them”

pscleft = pseudo-cleft sentences

Construction: Dem. pron. + Rel. clause + verb ‘to be’ + ‘that’ S / NP

- (24) y lo que pasa es que el barquito se hunde Spanish
“and what happens is that the boat sinks”

inv-pscleft = inverted pseudo-cleft sentences

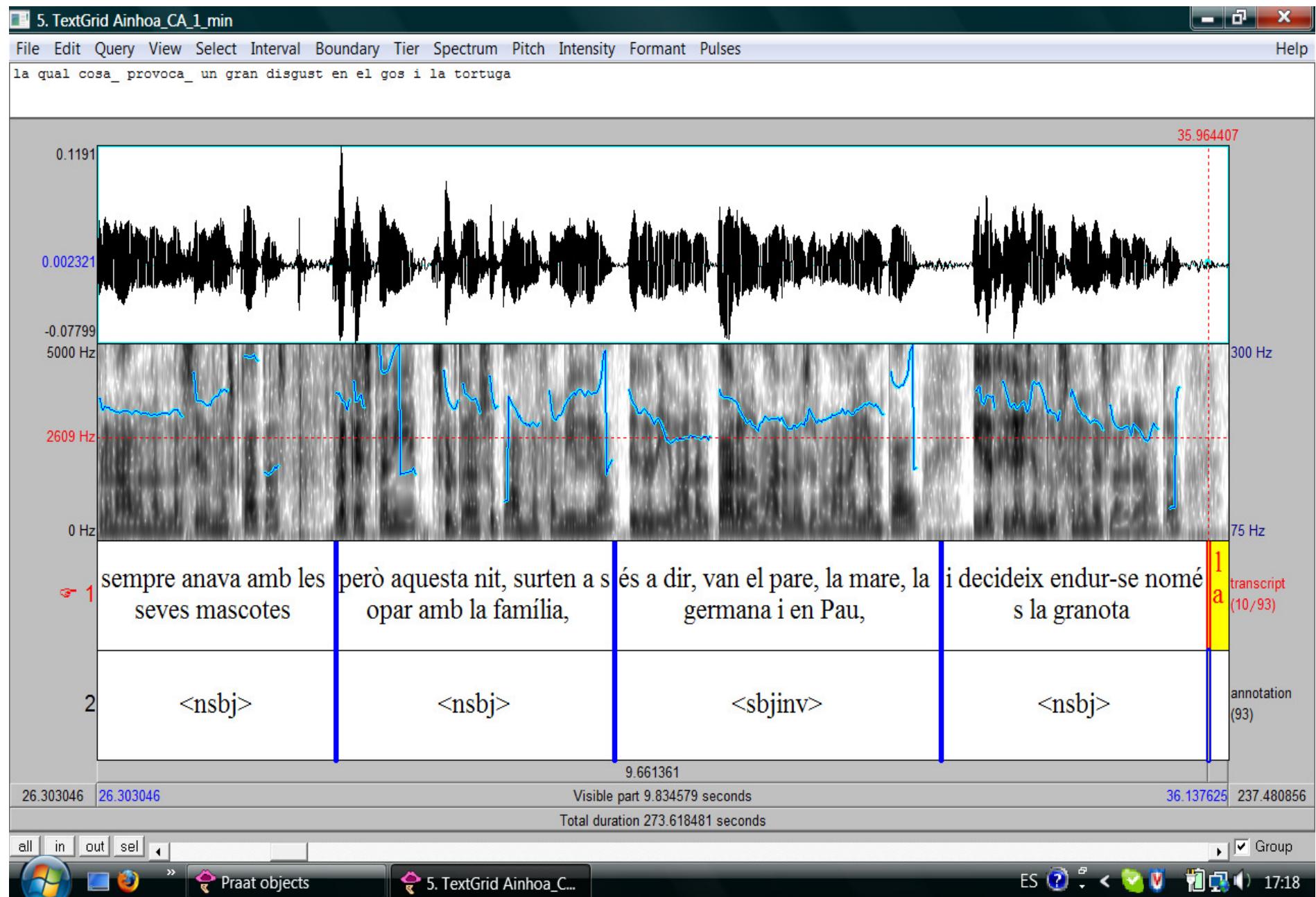
Construction: NP + verb ‘to be’ + Dem. pron. + Rel. clause

- (25) Y bueno, el niño es el que dirige la balsa Spanish
“and well the boy is the-one who leads the boat”

Example of transcription and annotation

```
<segment id="IT_04_2_0004" nocans="nsbj">  
    Erano stanchi della città, </segment>  
<segment id="IT_04_2_0005" nocans="nsbj">  
    avevano bisogno di un poco di natura, di aria fresca, </segment>  
<segment id="IT_04_2_0006" nocans="">  
    di camminare in mezzo agli alberi... </segment>  
<segment id="IT_04_2_0007" nocans="nsbj">  
    E così, tutti contenti, uscirono di casa </segment>  
<segment id="IT_04_2_0008" nocans="nsbj_c">  
    e andarono verso il bosco. </segment>  
<segment id="IT_04_2_0009" nocans="">  
    Michelino aveva messo la rana e la tartaruga in un secchiello,  
</segment>  
<segment id="IT_04_2_0010" nocans="clld,Id">  
    il cane nel secchiello non c'entrava, ovviamente. </segment>  
<segment id="IT_04_2_0011" nocans="">  
    Cammina cammina, </segment>  
<segment id="IT_04_2_0012" nocans="cldbl">  
    a un certo punto la rana ne approfitta di un momento di distrazione,  
    di Michelino, </segment>
```

Example of transcription and annotation on Praat





NOCANDO

[Main](#)

[Corpus Description](#)

[Corpus](#)

[Publications](#)

[Collaborators](#)

Contacts

Links

The project

NOCANDO seeks to establish a crosslinguistically taxonomy of noncanonical constructions (NOCANS). The languages studied and compared are Catalan, Spanish, Italian, English, and German.

The NOCANDO Corpus is a corpus of spoken narrative text. It was created by recording free picture based narrations of native speakers in the languages mentioned above. The texts were transcribed, annotated and aligned, using the Praat software.

At the moment only parts of the corpus are available in annotated and aligned form.

The corpus can be found [here](#).

If you want to use our data, please quote this webpage, and respect the constraints indicated in the link below:



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Terminado



NOCANDO - Mozilla Firefox

Archivo Editar Ver Historial Marcadores Herramientas Ayuda

http://nocando.barcelonamedia.org/ Google

NOCANDO

Main

Tommaso_IT_2 [MP3](#) [TXT](#)

Corpus Description

SPANISH

Corpus

Recordings Audio Transcript Annotation Alignment Audio-Transcript (Praat files)

	Recording	Audio	Transcript	Annotation	Alignment	Audio-Transcript (Praat files)
	Berta_ES_1	MP3	TXT	TextGrid		
	Berta_ES_2	MP3	TXT	TextGrid		
	Berta_ES_3	MP3	TXT	TextGrid		
	Carmen_ES_1	MP3	TXT	TextGrid		
	Carmen_ES_2	MP3	TXT	TextGrid		
	Carmen_ES_3	MP3	TXT	TextGrid		
	Cristina-MEM_ES_1	MP3	TXT	TextGrid		
	Cristina-MEM_ES_2	MP3	TXT	TextGrid		
	Cristina-MEM_ES_3	MP3	TXT	TextGrid		
	Enrique2_ES_1	MP3	TXT	TextGrid		
	Enrique2_ES_2	MP3	TXT	TextGrid		
	Enrique2_ES_3	MP3	TXT	TextGrid		
	Enrique_ES_1	MP3	TXT	TextGrid		
	Enrique_ES_2	MP3	TXT	TextGrid		
	Enrique_ES_3	MP3	TXT	TextGrid		
	Gemma_ES_1	MP3	TXT	TextGrid		
	Gemma_ES_2	MP3	TXT	TextGrid		

Terminado



ES ? < > V 22:14

Corpus exploitation

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- **Naturally occurring data** for theoretical studies on information structure and discourse (cf. Bott 2007, Brunetti 2009a,b, Mayol 2009).

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- Cooccurrence of NOCANS with particular linguistic environments or with other NOCANS (cf. Brunetti 2009a).

Corpus exploitation

- **Naturally occurring data** for theoretical studies on information structure and discourse (cf. Bott 2007, Brunetti 2009a,b, Mayol 2009).
- Cooccurrence of NOCANs with particular linguistic environments or with other NOCANs (cf. Brunetti 2009a).
- Comparison among Romance languages.

Corpus exploitation

	Catalan	Italian	Spanish	
overt sbj	1561	35,7 %	1262	38,9 %
nsbj	1665	38,1 %	1173	36,1 %

Corpus exploitation

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overt sbj	1561	35,7 %	1262	38,9 %	1027	35,5 %
nsbj	1665	38,1 %	1173	36,1 %	1084	37,5 %
sbjinv	332	7,6 %	215	6,6 %	265	9,1 %

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Cld + Id	62	1,4%	44	1,35%	39	1,35 %
Cld + rd	22	0,5 %	21	0,64 %	11	0,38 %
ht	10	0,2%	2	0,06%	9	0,3 %

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cldbl	92	2,1 %	7	0,2 %	61	2,1 %

Corpus exploitation

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ht	10	0,2%	2	0,06%	9	0,3 %
cldbl	92	2,1 %	7	0,2 %	61	2,1 %
pscleft + inv-psclef	40	0,9 %	10	0,3 %	37	1,28 %

Corpus exploitation

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overt sbj	1561	35,7 %	1262	38,9 %	1027	35,5 %
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pscleft + inv-psclef	40	0,9 %	10	0,3 %	37	1,28 %
pass	5	0,1 %	67	2 %	7	0,24 %

Future work

- ❖ Extension of the corpus
- ❖ Collection and annotation of a corpus of dialogues in the same languages
- ❖ Extension of the corpus to other languages
- ❖ Annotation of NOCANs in Germanic languages
- ❖ Extension of the annotation to informational categories
(cf. Bauman 2006, Calhoun et al. 2005, a.o.), **semantic categories** (thematic roles, animacy...), and discourse properties.

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