

Accusative object clitics are not all alike

Larisa Avram & Martine Coene
University of Bucharest
University of Antwerp & Leiden
University

Aim

- investigate acquisition of ADOCs in Romanian
- analyze spontaneous (longitudinal) data
- start from obligatory contexts
- look at omission and production of ADOCs
- compare subsets of ADOCS: 1st/2nd person vs 3rd person ADOCs

Background

- Acquisition of pronominal co-reference in non-reflexive ADOCs:

- Germanic: DBPE for pronouns

- Romance: no DBPE for clitics

child speech

John_i sees him_i.

'John sees himself.'

Jean_i le_j voit.

John CL 3sg m sees

'John sees him.'

=> Investigated extensively cross-linguistically

Philip & Coopmans 1996, Avrutin & Wexler 1992, Baauw 1999, 2000; Sigurjonsdottir 1990, Mc Kee 1992, Hamann & Philip 1997, Padilla 1990, Baauw, Escobar & Philip 1997

Question

- Does early mastery of PB for clitics go hand in hand with early production and low omission rate?
- Do all types of clitics show the same/a different acquisitional pattern?

Contexts for Romanian ADOCs

1. Obligatory use

A. at the level of the **clause**:

- Left- and right dislocated direct object

Cartea_i, am dat *(-o_i).

book-the have given-Acc Cl 3rd p.sg.fem

'I have given the book away.'

Am dat *(-o_i) # cartea_i.

book-the have given-Acc Cl 3rd p.sg.fem

'I have given the book away.'

- Relative clauses introduced by *care* 'which'

Pe care_i l_i-ai ales?

acc marker which Acc Cl 3rd sg.m. have chosen

'Which one have you chosen?'

ADOC contexts (2)

- with a pronominal direct object (predeceded by ACC marker *pe*): clitic doubling constructions

*(L_i-)am vazut pe el_i/acesta_i.

Acc CL 3rd sg.m have-1st seen acc marker him/this

'I have seen him/this one.'

*(Te_i-) au întrebat doar pe tine_i.

ACC 2nd sg. have asked only Acc Marker you-ACC 2nd sg

'They have asked only you'

=> Antecedent is a referentially stable topic, presumably in SpecTopP

ADOC contexts (3)

B. At the **discourse** level:

(Ce ai facut cu marul_i?)

What have you done to the apple?

*(L_i-) am mâncat.

Acc CL 3rd sg m have eaten.

'I have eaten it.'

⇒ antecedent is salient in discourse and retrievable at the interface

ADOC contexts (4)

2. Optional use

(I_i-)am vazut pe unii_i.

(ACC CL m.pl.) have seen ACC marker some-m.pl.

'I have seen some of them.'

INDEF PRON

(L_i-)am salutat pe un vecin_i.

(ACC CL m.sg.) have greeted ACC marker a neighbour

'I have greeted a neighbour.'

INDEF DP

(L_i-)am ales pe al patrulea_i.

(ACC CL m.sg.) have choosen ACC marker the fourth one

'I have choosen the fourth one.'

NUMERALS

(O_i) avem aici pe Ruxi_i.

(ACC CL f.sg.) have here ACC marker Ruxi.

'Here we have Ruxi.'

PROPER NAMES

⇒ Independent of acc marking !

ADOC contexts (5)

- From previous:
 - for **1st** and **2nd p** clitics: only obligatory contexts

	CL	V	strong obj pron	
1st	*(ma)		pe mine	OBLIGATORY
2nd	*(te)		pe tine	

- for **3rd p** clitics: competing contexts

	CL	V	strong obj pron	
3rd	*(îl)		pe el	OBLIGATORY
	(îl)		pe vecin	OPTIONAL
	*(îl)		pe acesta	OBLIGATORY
	(îl)		pe al patrulea	OPTIONAL

Subsets of ADOCs

strong/weak pronouns vs clitics

– *Referential properties*

Avrutin/Wexler 1992 deictic reference

– *Feature underspecification*

Baauw e.a. 1997 [Human]

Avram/Coene 2006 [Person]
underspecified for [gender]

– *Syntactic status*

Cardinaletti 1994 DP



ma
te

“anaphoric”

underspecified for [human]
underspecified for [person]
[Gender]

D



il/o

Unifying account of 3rd p ADOCs

- Romanian: object clitics as agreement identifying *empty null object*

cf Muller, Crysmann & Kaiser 1996; Pérez-Leroux, Pîrvulescu, Roberge 2005 for French

- A unifying account:

- Dislocation constructions Marul_i, I_i-am mîncat *e*.
- Single clitic constructions (Ce ai facut cu marul_i?) L_i-am mîncat *e*.
- Clitic doubling constructions Pe acesta_i, I_i-am mîncat *e*.



Summary

	1st/2nd non-refl	refl	3rd non-refl
Type of clitic referent	Weak pronoun real world ("exophora")	Weak pronoun clause	Syntactic clitic discourse
Syntactic status	DP	DP	D

1st

Ma îmbraca mama.

Me dresses-3sg mama

REFL

Ma îmbrac.

Me dress-1sg

3rd

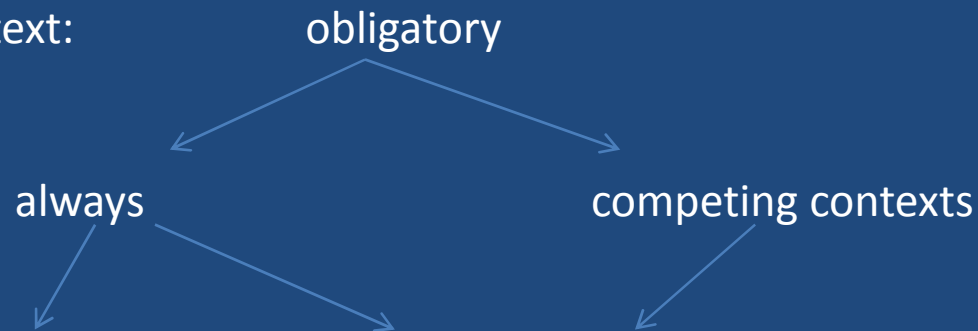
Îl îmbraca mama.

Him dresses-3sg mama

Predictions for acquisition

- Increasing complexity:

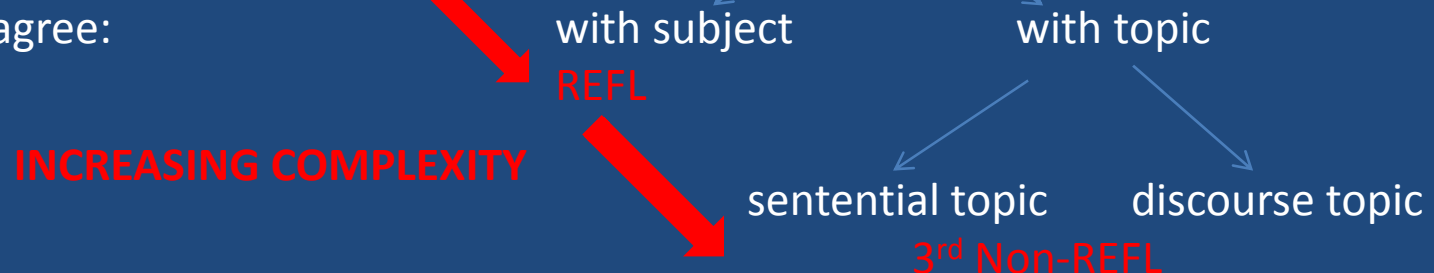
1) identify ADOC context:



2) identify referent:



3) agree:



INCREASING COMPLEXITY

=> natural order of acquisition 1st/2nd < REFL < 3rd non-REFL

Alternative hypothesis

- If a natural order of acquisition is found, it is a reflection of input frequency
- If so, early acquisition of 1st/2nd may be explained by a proportionally high frequency of 1st/2nd person pronouns in child-directed speech

Materials

- Longitudinal data from Romanian monolingual children
- Weekly 60 min. recordings of child and child-directed speech between 1;05-2;11 (B.); 1;09-3;05 (A.)
- Analysis of B.corpus
 - child B.: 31247 tokens in 12398 utterances
 - child-directed speech (MOT/FAT): 44316 tokens in 10706 utterances

Analysis of ADOC omission

- Permissible contexts: do not tell us anything about object clitic omission
 - speaker-dependent
 - regional differences
 - language evolution
- Investigate ADOC omission and production in Romanian child speech:
 - Analyze only obligatory contexts !

Method

- Identification of obligatory contexts
- Evaluation of clitic omission:
 - illicit:
 - in dislocation constructions
Florica am udat *[-o] B. 2;10
Flower-DIM-f.sg. have watered her-f.sg.
 - in clitic doubling constructions
Am luat *[-o] pe vrăjitoarea cea rea. B.2;09
Have taken her-f.sg. ACC marker the bad witch
 - in single clitic constructions:
if antecedent mentioned in previous discourse
Si când vine vulpea la fetita, *(o) iau în brate. B.2;08
And when comes the fox to the girl, her-f.sg. take in arms

Method

– permissible:

- in single clitic constructions:

with no discourse antecedent

INV: ce ai gasit?

B. 2;08

what have you found

CHI: am gasit ceva aici.

have found something here

CHI: stai ca vad eu aicea.

wait that see I here

‘Let me see here.’

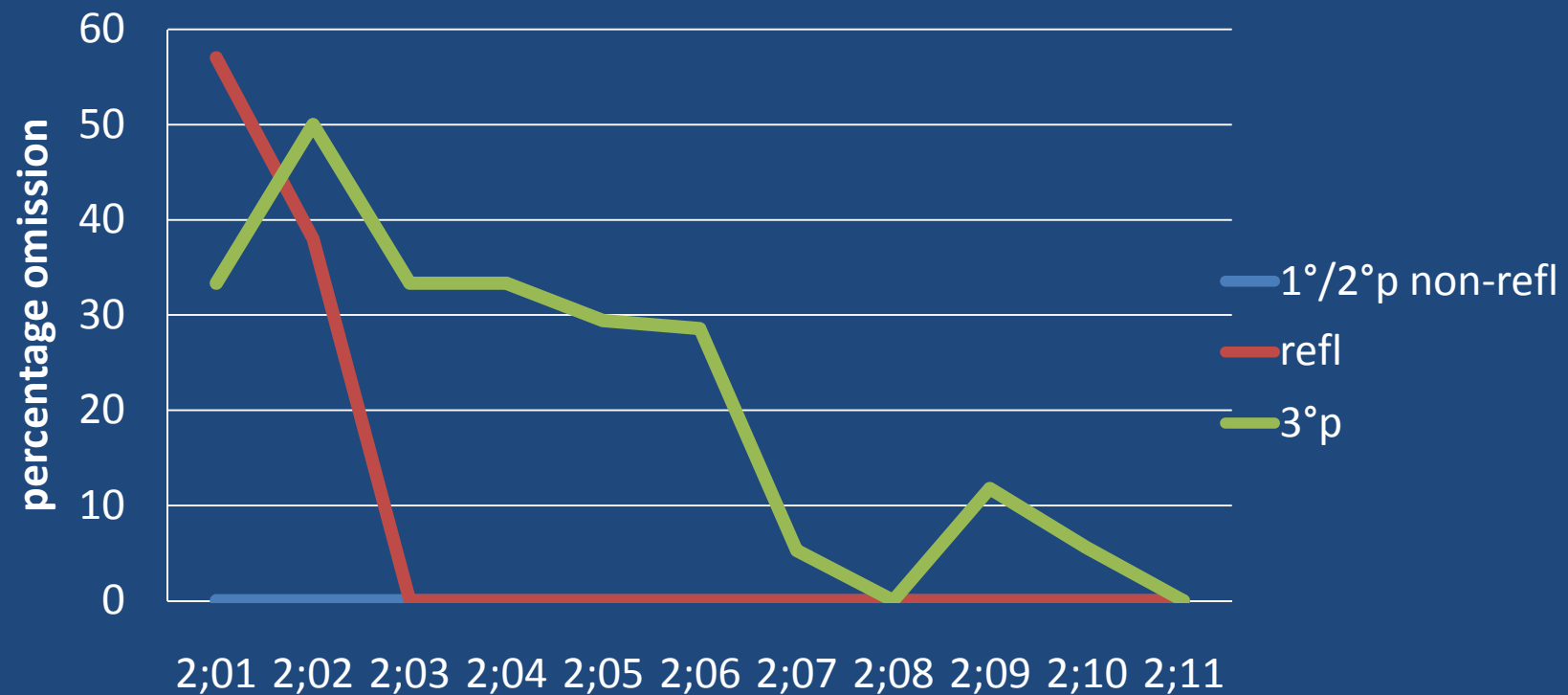
Not taken into account !

Results

- Early emergence of ADOCs: at 2;00
- Omission rate in obligatory contexts:
 - No omission of 1°/2°p non-refl
 - Early decrease in omission of reflexives
 - Slow decrease in omission of 3rd p non-refl

ADOC omission

omissions in obligatory contexts



Errors

- Error analysis of ADOC production:

- 1st/2nd person and REFL:

- case-errors:

- ACC pro DAT : still 67% at 2;11

- Ma faci parfum (2;08)

- ACC CL-1sg make-2sg perfume

- 'You make me perfume.'

- Ma-i dai (2;04)

- ACC CL-1sg ACC-m.pl. give-2sg

- 'You give them to me.'

- dative used only in high frequent contexts

- Mie îmi place.

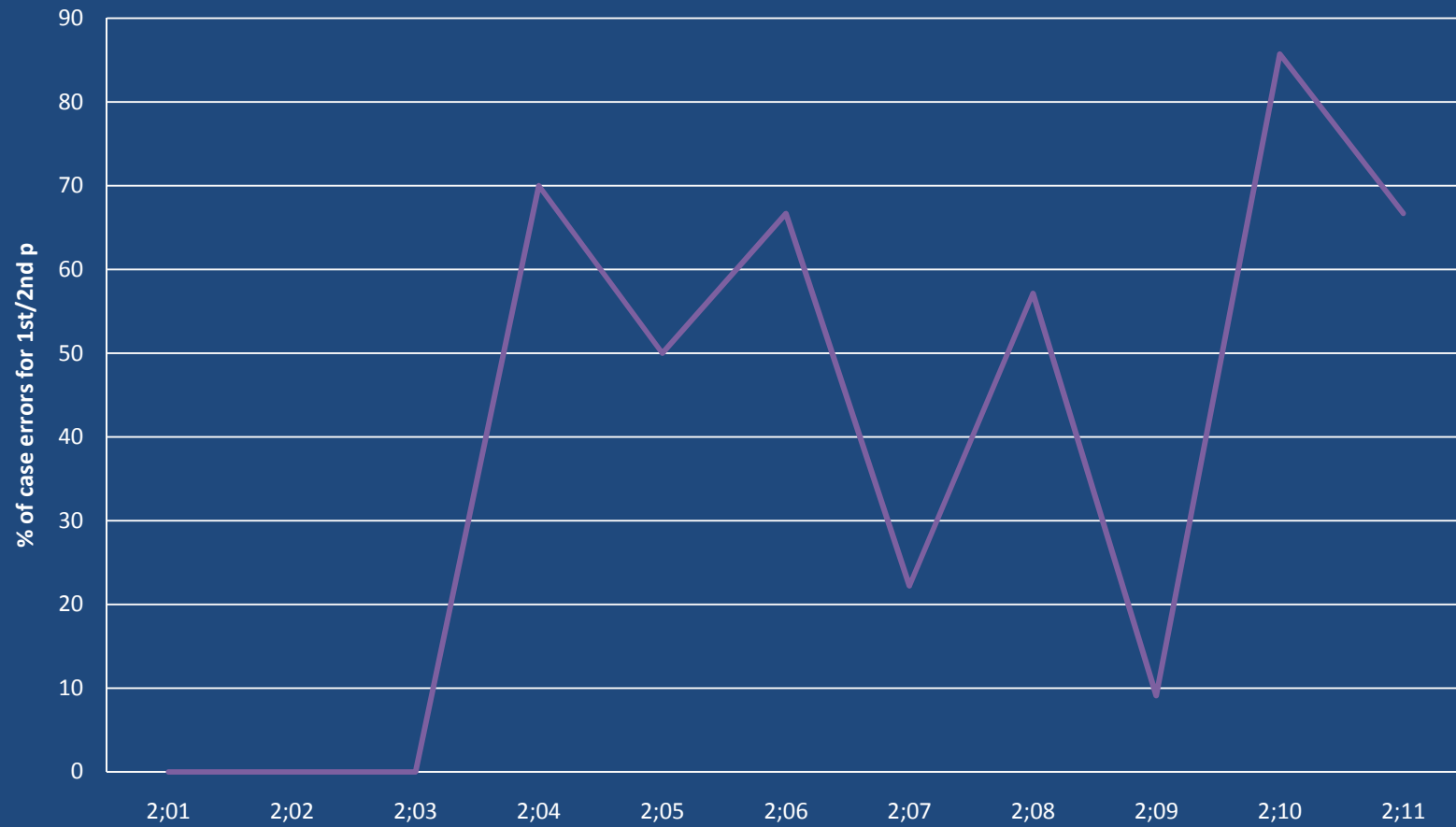
- STR PRO-DAT-1sg me-DAT-1sg pleases-3sg

- 'I like it.'

⇒ overuse of ACC in DAT contexts

⇒ 1st/2nd non-REFL and REFL underspecified for case

ACC pro DAT in 1/2 p contexts



3rd person

- high omission rate, steady decrease until 2;11
- Gender/number errors in 3rd p ADOC production data, steady decrease until 2;10

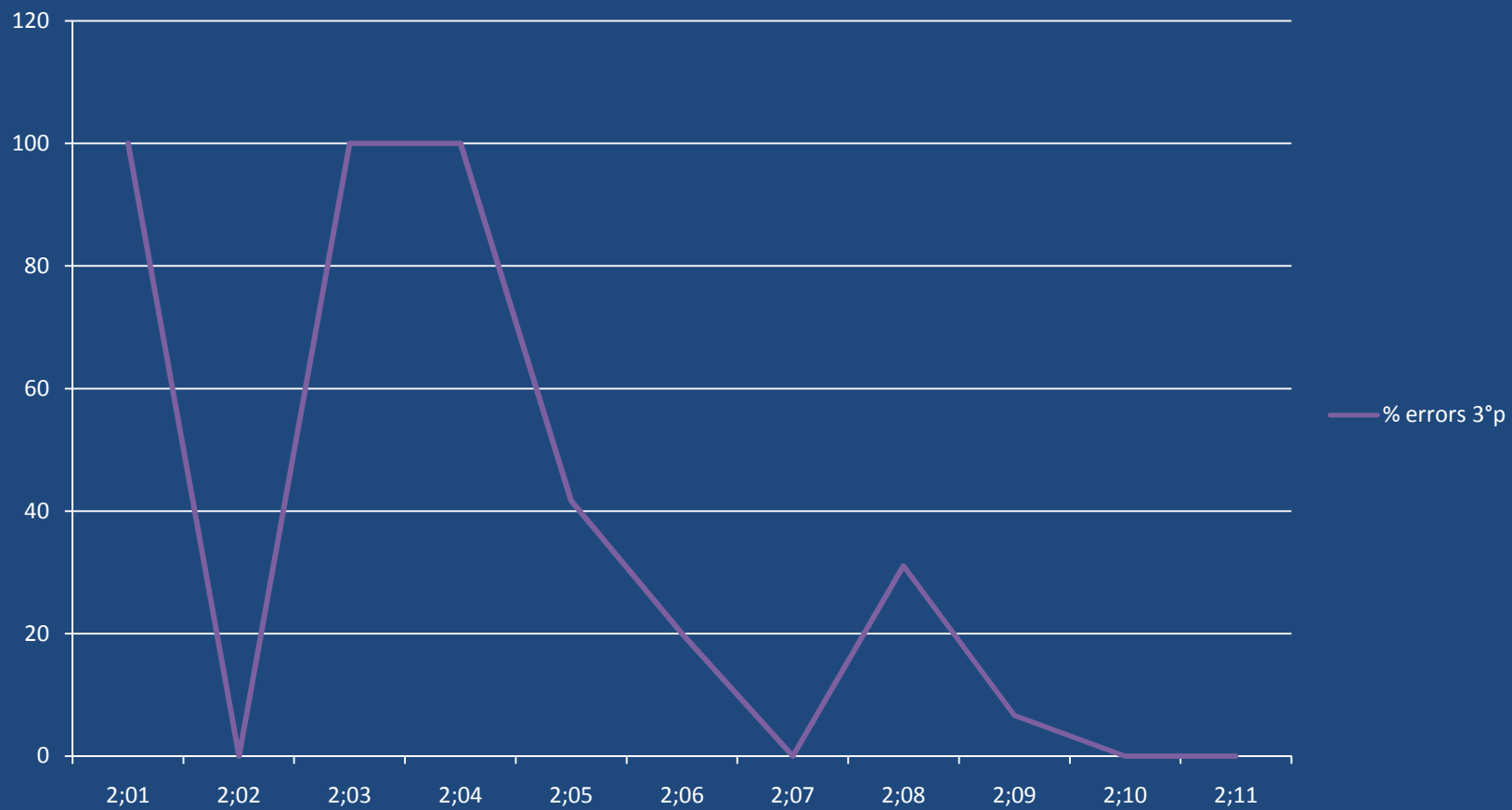
unde sunt piticii ca sa *le pun aicea (2;08)

where are dwarfs-m.pl. that them-f.pl. put-1sg here

unde e băiatu(l) să *o pun pe scăunel

where is boy-the that her-f.sg. Put-1sg on chair-dim

% gen/num errors 3°p ADOCs



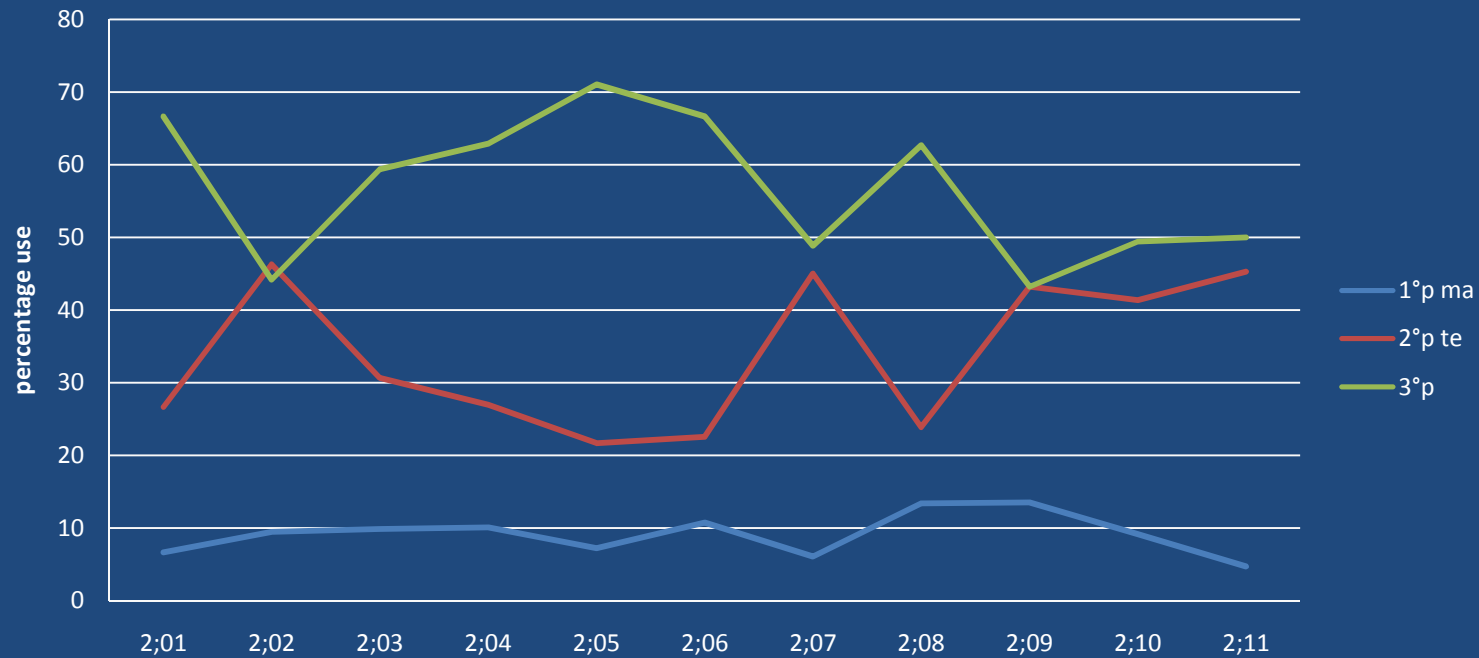
Questions

- Natural order: why are 1st/2nd p ADOCs acquired before REFL and before 3rd p non-REFL?
- Why case errors with 1st/2nd p/REFL and gen/num errors with 3rd non-REFL?

Input

- verify whether parents use proportionally more 1st/2nd p vs 3rd person ADOCs
- longitudinal effects: does increase in 3rd person ADOC use reflect change from 1st/2nd > 3rd person in child-directed speech?
- does child-directed speech show occasional case, gender or number errors?

proportion of ADOC subtypes in INPUT



- No higher proportion of 1st/2nd vs 3rd p ADOCs (other way around!)
- No longitudinal effects: proportions remain steady over time
- No case-, gender- or number errors found

=> children do not just “copy” their parents

Previous accounts

- Omission of direct object clitics
 - Low acoustic salience (Lightbown 1977)
 - Syntactic accounts:
 - Computational Complexity (Jakubowicz & Nash 2001)
 - » Object clitics are highly complex and will be acquired late
 - Violation of principle of categorial uniformity (Hamann 2003)
 - » Children expect objects to be full DPs, therefore use *pro*
 - Processing difficulties in chain crossing (Chillier Zesiger 2003)
 - » Subject and object chains cross each other

Complexity

- Core idea in line with previous accounts:
more complex structures are acquired later
- 1st/2nd p non-REFL: relatively “easy”
 - Deictic reference => pragmatics only
 - » Cfr early acquisition of demonstratives
- REFL: “intermediate”
 - Inflection => syntax only

Proposal

- Double Interface Complexity Hypothesis: identification of ADOC antecedent dependent on pragmatics & phonology



Syntax-Pragmatics interface

- Intersentential anaphoric use:
 - Knowledge of sequential flow of identical referents
 - Introduction of new antecedents
- Antecedent accessibility: gradual difference with which the speaker/hearer can access the referent in the discourse
 - Distance
 - Number of competing antecedents

⇒ hierarchy in antecedent accessibility:

highly accessible antecedents have been mentioned very recently and have little competing antecedents in the nearby context (Givon 1983, Ariel 1990, Gundel e.a. 1993)

Syntax-Phonology interface

- Topic identification:
 - Relation between information structure and prosody
 - Germanic languages: defocused elements often deaccented
 - BUT more recently: Romanian claimed to share some properties with Germanic languages in allowing deaccentuation of given information
Winkler & Göbbel 2002, Göbbel 2003

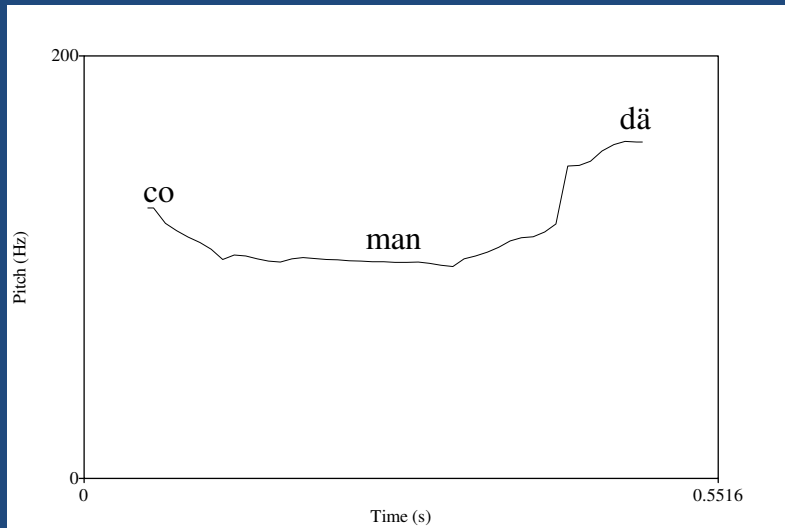
Syntax-Phonology interface (2)

- Coene 2008: acoustic analysis of focus/topic DPs

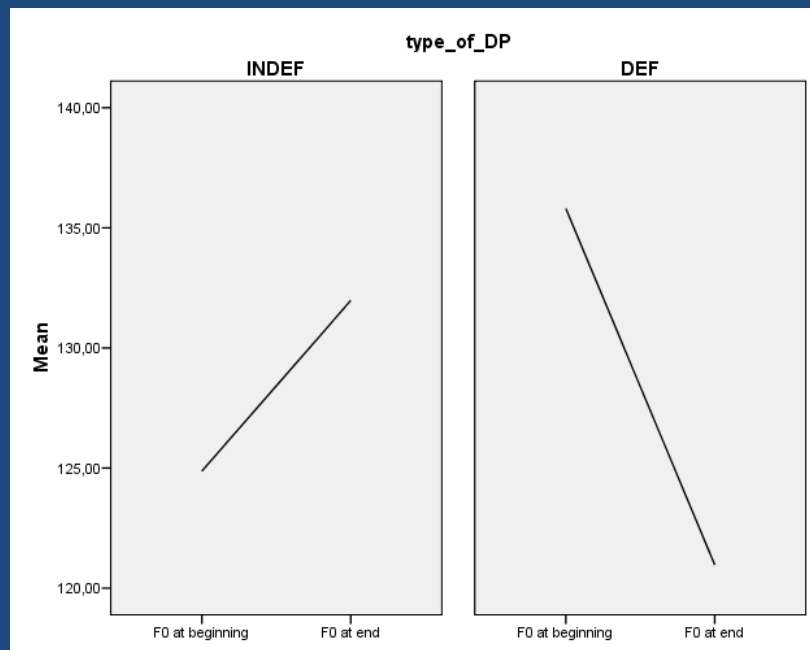
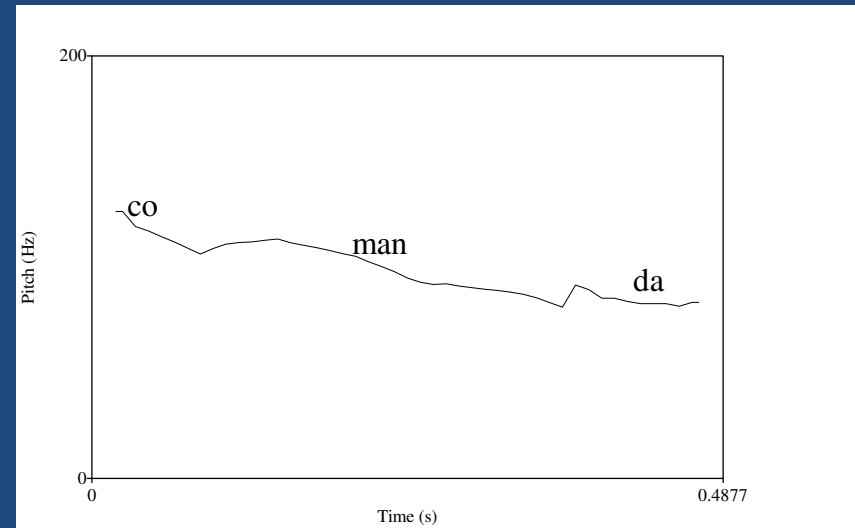
Aș dori să fac **o comandă** pentru zece cutii cu artificii de Crăciun,
I would like to make **an order** for ten boxes of firework for Christmas,
cinci cutii cu biscuiți amestecați și trei prăjituri mari de Crăciun. V-aș
five boxes of mixed biscuits and three big Christmas cakes. I would
fi recunoscător dacă nu ați dezvălui cine a făcut **comanda**.
be grateful if you would not reveal who has made **the order**.

⇒ Focus/topic have different intonational patterns:
rising vs falling pitch accent

FOCUS



TOPIC



different change in fundamental frequency from beginning to end ($t = 3.132$; $p = .003$)

Syntax-Phonology interface (2)

- Metric structure:
 - Trochaic foot proposed as the metric template that guides children in acquisition
(Allen/Hawkins 1978, 1979; Klein 1984; Fikkert 1994)
 - Children map their intended utterances on a trochaic template
 - Weak syllables that do not fit the trochaic template are omitted more frequently
 - Subject and article omission have been said to be guided by the trochaic template (Gerken 1994, 1996; Crisma/Tomasutti 2000)

=> Syntactic clitics are omitted less frequently if they belong to the metric foot

Double Interface Complexity Hypothesis

- Problems may arise
 - » Pragmatic level: low working memory (discourse coherence)
 - » Phonological level: deaccented elements are easily missed in incoming speech
 - » Syntactic level:
 - feature underspecification
 - copy features into clitic is last resort and thus language specific (costly operation)

Conclusions

- All accusative clitics are not alike:
 - 1st/2nd p: weak pronouns, DPs, deictic reference
 - 3rd non-refl: true syntactic clitics, Ds, copy features of null object
- Associated with different acquisition patterns:
 - 1st/2nd p no omissions as early as 2;00 – underspecified for case
 - 3rd person: gradual decrease in omission between 2;00-3;00 – gender & number errors

Conclusions (2)

- Interface Complexity Hypothesis:
 - 3rd p acquired later for complexity reasons
 - a combination of syntactic, pragmatic and prosodic information is needed
- puzzle to be solved:
 - in production: weak pronouns less complex than clitics
 - comprehension: DPBE in clitics but not in weak pronouns
 - ⇒ do Romanian children show a DPBE in the comprehension of clitics?

THANKS !