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Syntactic microvariation, hypothesis testing, and the role of counterexamples

Diego Pescarini (CNRS, Nice)

1. Introduction

State of the art:

	(Micro)comparative Syntax		(Micro)parametric Syntax	
GOAL	Fine-t	uning	Modelling	
	syntactic	analyses	syntactic	variation
e.g.	Kayne; Poletto	Manzini &	Ledgeway	Guardiano &
		Savoia		Longobardi
	Narrow Extensive		sive	Extensive
	(theory-driven)	(not necessarily statistically		(statistically
SAMPLING	signific		cant)	significant)
SAMELING	Non-exhaustive	Exhaustive (geographically and/or typologically)		Non-exhaustive;
				across
				families/groups
	Lexicalization/		Ye	s/no
MODELLING	Externalization	n of Functional	parametr	ic choices
	elem	nents	Bottom up	Top down

On parameters

- 80s: the Faculty of Language comprises a) a series of invariable Principles and b) a built-in switchboard of Parameters, allowing languages to vary according to a finite and predetermined number of choices.
- Alternative approach (dubbed *Borer-Chomsky Conjecture* by Baker 2008): variation results from a) the extreme simplicity of syntactic principles, which do not impede the emergence of variation, and b) from the properties (technically: *features*) of functional elements. "[a]ssociating parameter values with lexical entries reduces them to the one part of a language which clearly must be learned anyway: the lexicon" (Borer 1984: 29), whereas basic syntactic principles (e.g. *merge*) remain inert to change and variation (Longobardi 2001).

Chomsky 2005:6: "three factors that enter into the growth of language in the individual:

- 1) Genetic endowment, apparently nearly uniform for the species [...]
- 2) Experience, *which leads to variation*, within a fairly narrow range, as in the case of other subsystems of the human capacity and the organism generally.
- 3) Principles not specific to the faculty of language." (emphasis mine)

Typical RQs:

- Do Parameters exist?
- What is their format/nature?
- How are they organized?

(Macro) Parameter ??

	Parameter		Parameter	
Variables	Variables	Variables	Variables	Variables

Problem: We don't see Parameters (I-language). We see language-specific instantiations of Parameters (E-language).

Syntactic variable: A co-occurs/precedes/agrees with B (in the domain D)

Hypothesis: statistically significant associations between syntactic variables are key to understanding parameters.

My method:

- i) I work on descriptive variables/simple phenomena.
- ii) I focus on associations between variables that a priori are not interlocked.
- iii) I compare variables pairwise).
- iv) No dedicated survey ("How to make your best with incomplete data" Garzonio & Poletto 2018).
- v) Sample: approx. 360 northern Italian dialects contained in the <u>ASIt</u> database (Syntactic Atlas of Italy) and published in Manzini & Savoia 2005.

2. A case study: SCls in NIDs (Pescarini in press a/b; cf. CIDSM 2019)

Cross-dialectal distribution of subject clitics in a sample of northern Italo-Romance dialects, focusing on syntactic variables that have been examined in previous qualitative analyses (Brandi & Cordin 1981/1989; Rizzi 1986; Poletto 2000; Manzini & Savoia 2005; Roberts 2014):

Some properties of subject clitics that are subject to variation:

- 1) Doubling of an operator-like subject;
- 2) Expletives, i.e. whether weather verbs occur with a subject clitic or not;
- 3) Person-driven gaps;
- 4) Invariable SCls across persons;
- 5) Order w.r.t. clitic negation;
- 6) Inversion;
- 7) Relationship with "rich" Infl.

Variable 1 (**Doubling**). Most northern Italian dialects allow the co-occurrence of subject clitics and phrasal subjects. However, not all subjects can be doubled by clitic formatives. Poletto (2000) shows that, whereas pronominal and DP subjects are doubled quite systematically (see (1a)), operator-like subjects such as wh elements and bare quantifiers are doubled less frequently, see (1b).

(1) a. 'marjo **el** 'riva do'maŋ (Ver.)

Mario 3sg.m.nom= arrive.3sg Tomorrow

'Mario (he) will arrive tomorrow.'

b. \(\int i \) 'riv(a) *elo \\
Who arrive.3sg =3sg.m.nom 'Who will arrive?'

Variable 2 (Expletives). NIDs differ with respect to the occurrence of expletive subject clitics in impersonal constructions, i.e. sentences containing non-thematic verbs or featuring a postverbal/clausal subject.

- (2) a. L 'rua (Monno)

 3sg.m.nom= arrive.3sg
 'He/she is coming.'
 - b. el 'plof 3sg.m.nom= rain.3sg 'It rains.'
- (3) a. el 'riva (Ver.)
 3sg.m.nom= arrive.3sg
 'He/she is coming.'
 - b. *el 'piove 3sg.m.nom= rain.3sg 'It rains'

Testing Expletives (with weather verbs) / Doubling (of the subject who). p = .002565

Table 1. Number of dialects exhibiting expletives (with weather verbs) and doubling of the wh element who. Dataset: Manzini & Savoia 2005 + selected datapoints from the ASIt database.

	No doubling	Doubling
No expletive	25	10
Expletive	67	88

Variable 3 (Gaps). SCls are often missing, cf. Table 2.

- (4) a. _ magno el pomo (Ver.)
 - b. **a** mangio er pomo (La Spezia) 'I am eating an apple.'

Testing Gaps (1sg person) / Expletives. (p = .000141)

Table 2. Number of dialects exhibiting expletives (with weather verbs) and gaps (at the 1st person singular) in Manzini & Savoia's 2005 sample.

	No Gaps	Gaps
No expletive	2	20
Expletive	74	90

The incidence of gaps is higher in dialects without expletives.

Testing Doubling / gaps. (not significant at p < .05.)

Table 3. Number of dialects exhibiting gaps (at the 1^{st} person singular) and doubling of the wh element *who*. Dataset: Manzini & Savoia 2005 + selected datapoints from the ASIt database.

	No Gaps	Gaps
No doubling	75	44
Doubling	52	40

Variable 4 (Syncretism). SCls are often *syncretic*, i.e. different bundles of person and number features are externalized by the same exponent, e.g. *a*, *i* in Table 4.

Table 4. Examples of paradigms of subject clitics in Italo-Romance dialects

	Verona	Fornero	Piverone	Olivone
1sg		i	i	a
1sg 2sg	te	ti	at	tu
3sg(m/f)	(e)l/la	al/la	al/la	u/ra
1pl		i	i	a
2pl		i	i	a
3pl (m/f)	i/le	i	a	i

If the 1sg SCl is present, it is likely to be an invariable clitic, a *dummy*:

Table 5. Number of dialects exhibiting syncretism involving the 1st person singular SCl. Dataset: Manzini & Savoia 2005.

	No gap
No syncretism	8
Syncretism	89

Since dummies correlate with expletives, can the former be analyzed as a particular kind of expletives?

Variable 5 (NegPos). SCls can either precede or follow preverbal negation (in the NIDs that still display a preverbal negator)

Testing Gaps (1sg SCls) vs NegPosition. (p < 0.00001).

Table 6. Number of dialects where the 1sg is missing and other SCls precede/follow the prevernal negation. Dataset: Manzini & Savoia 2005.

	Neg > SCls	SCls > Neg
Gap	11	16
No Gap	0	49

Testing NegPos / Expletives. (p = 0.0475).

Table 7. Number of dialects in which SCls occur with weather verbs and SCls precede/follow prevernal negation. Dataset: Manzini & Savoia 2005.

	Neg > SCls	SCls > Neg
No Expletive	4	7
Expletive	7	58

Testing NegPos / Doubling. (Not significant at p < .05)

Table 8. Number of dialects in which SCls double *who* and precede/follow preverbal negation. Dataset: Manzini & Savoia 2005.

	Neg > SCls	SCls > Neg
No Doubling	1	11
Doubling	7	21

Testing Inversion / Negation (Not significant at p < .05)

Table 9. Number of dialects exhibiting inversion (in positive interrogatives) and/or SCls preceding preverbal negation. Dataset: Manzini & Savoia 2005.

	No Inversion	Inversion
Neg > SCls	4	7
SCls > Neg	17	49

[From now on, I will report only significant associations]

An aside on an orthogonal Variable: true/fake imperatives

(6) a. mangia!

b. non mangiare!

Testing Fake imperatives / presence/absence of a preverbal (clitic) negation, cf. Zanuttini's 1997 (p < 0.00001).

Table 10. Number of dialects exhibiting fake/true imperatives with/without preverbal negation. Dataset: Manzini & Savoia 2005.

	True Imp	Fake Imp
No PreV Neg	77	20
PreV Neg	7	83

Testing fake/true imperatives / NegPos. (Not significant at p < .05)...

Table 11. Number of dialects exhibiting fake/true imperatives and in which SCls precede/follow negation. Dataset: Manzini & Savoia 2005.

	True Imp	Fake Imp
Neg > SCls	2	6
SCls > Neg	18	47

Variable 6 (Inversion). In main interrogatives, subject clitics are placed postverbally (i.e. in *enclisis*, see (4a)), whereas object clitics remain preverbal (in *proclisis*, see (4b)):

Testing inversion / expletives (Not significant at p < .05)

Table 12. Number of dialects exhibiting expletive SCls and/or inversion. Dataset: Manzini & Savoia 2005.

	No Inversion	Inversion
No Expletives	3	14
Expletives	52	84

Variable 7 (Rich Inflection).

The relationship between the richness of verbal inflection, the syntax of subject clitics and the licensing of null subjects has been debated since the 19th century (Meyer-Lübke 1895; within the generative framework, see Perlmutter 1971; Taraldsen 1980; on northern Italo-Romance, see Roberts 2014).

Rich Infl:

- number of distinctive endings (including zeroes)
- present indicative of regular verbs.
- excluding 1/2pl verbs, where Infl triggers stem allomorphy/suppletion
- as for the remaining 4 verb forms (1-3sg, 3pl),
 - \circ 0-1 contrasts \rightarrow poor
 - \circ 2-3 contrasts \rightarrow rich

Testing RichInfl / Expletives. (Almost significant; p = .0502)

Table 13. Number of dialects exhibiting expletive SCls in which SCls precede/follow preverbal negation Dataset: Manzini & Savoia 2005.

	Poor Infl	Rich Infl	
No Expletive	2	19	
Expletive	50	118	

Testing RichInfl / Expletives & Gaps. (p < 0.00001)

Table 14. Presence of expletives and dummies in dialects with poor and rich verbal inflection (dataset: Manzini & Savoia 2005).

	Poor infl	Rich infl
both expl and dummy	52	38
either expl or dummy	13	63
neither expl nor dummy	1	18

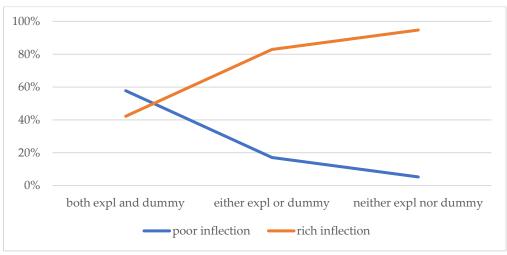


Fig. 1

3. Discussion

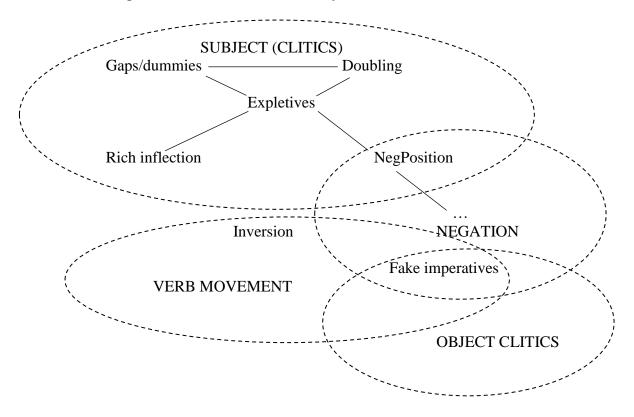
Summary:

	Doubling	Expletives	Gaps	NegPos
Doubling	-	yes	-	-
Gaps/dummies	*	yes	-	-
Negation	*	yes	yes	-
Rich Inflection	*	yes		*
Inversion	*	*	*	*

Remarks:

i. Having a sample of 180-200 dialects, we can test associations between categorical variables;

- ii. Some of these associations proved to be statistically significant;
- iii. Associations are not *transitive*: if <a b> & <b c> do not imply <a c>. Therefore, no hierarchy.
- iv. The explanandum of Parametric Theory is a network of variables:



- v. If associations were transitive, dialects would tend to fall into two (proto)types (e,g, {a1, b1, c1} vs {a0, b0, c0}. In fact, no bimodal distribution.
- vi. No prediction can be made regarding the overall structure of E-languages. E-languages are affected by other $2^{nd}/3^{rd}$ factors.
- vii. As for SCls, we have a constellation of phenomena revolving around a primary variable, namely "Expletive".
- viii. Other phenomena ("Gaps", "Doubling", "Rich inflection") are arguably related to this primary variable.
- ix. The associated Parameter seems to be EPP-related.
- x. Ways to satisfy the EPP:
 - DP
 - $-X \rightarrow (Stylistic Fronting)$
 - $D \rightarrow (Subject clitics)$
 - (Rich) Infl