

The PCC, the no-null-agreement generalization, and clitic doubling as long head movement

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1. What this talk is about

- When you talk to syntacticians, you'll often hear things like:
“Sure, language *L* doesn't have object agreement on the surface; but that's just a fact about morpho-phonology.”
- My first goal today is to show you that this kind of thinking, when it comes to agreement, is almost always wrong:
Generally speaking, there is no agreement where you can't see agreement.
- In the course of this investigation, we'll run into an interesting wrinkle:
 - as far as the relevant diagnostics are concerned, clitic doubling behaves as though it were agreement
- This is surprising, because clitic doubling is an instance of movement —
 - and because, contra Chomsky (2000, *et seq.*), movement does not generally involve an initial agreement step
- In figuring out why it is that clitic doubling does have to be prefigured by agreement, we will uncover some interesting things about:
 - locality
 - head movement
 - the locality of head movement
 - the *anti*-locality of phrasal movement

2. What this talk is not about

- Recent years have seen a cottage industry of *reductions-to-agreement* —
 - i.e., attempts to reduce various other linguistic phenomena to the same formal operation hypothesized to underpin agreement

· e.g. Chomsky's (2000, 2001) *Agree*

INCL.: Binding Theory (Kratzer 2009, Reuland 2011, Rooryck & Vanden Wyngaerd 2011), negative concord (Zeijlstra 2004, 2008b); modal concord (Zeijlstra 2008a); noun-modifier concord (Baker 2008, Carstens 2000, Mallen 1997); and even the formation of in-situ questions (Bobaljik & Wurmbrand 2014)

- This talk is not about these (attempted) reductions.
- When I say 'agreement' I mean:
 φ -features covarying between a noun phrase and some verbal head
 - where 'φ-features' is some non-empty subset of {PERSON, NUMBER, GENDER/NOUN-CLASS}

3. Outline

- §4: A quick refresher on, or very brief introduction to, the Person Case Constraint (PCC)
- §5: Why the PCC is fundamentally a syntactic phenomenon (Albizu 1997, Rezac 2008b)
- §6: The sensitivity of the PCC to overtiness, and the consequences of that sensitivity for linguistic theory (SPOILER: *no null agreement!*)
- §7: The clitic-doubling caveat
- §8: A non-explanation for the caveat: the fallacy of agreement as a precursor to all DP movement
- §9: A more promising alternative:
 - an *A-over-A* explanation of why head movement tends to be maximally local (Hornstein 2009, Roberts 2010)
 - c-selection, agreement, and the *Principle of Minimal Compliance* (Richards 1998, 2001)
 - bonus: the *Head Movement Constraint* (Travis 1984) meets *Anti-Locality* (Abels 2003)
- §10: Learning the distribution of unvalued φ -features: *no null agreement* as an acquisition strategy
- §11: Conclusion

4. A quick refresher on, or very brief introduction to, the Person Case Constraint

- The Person Case Constraint (PCC; a.k.a., the “**me-lui* Constraint”):
 - a family of restrictions limiting the PERSON features of different arguments in relation to one another
 - usually affecting combinations of multiple internal arguments of a single predicate
 - ⇒ most commonly illustrated using the direct and indirect objects of a ditransitive verb
- Cross-linguistically, the constraint comes in (at least) four varieties: *Strong*, *Weak*, *Me-First*, and *UltraStrong*
 - see Anagnostopoulou (2005) and Nevins (2007), and references therein

Example:

- (1) STRONG PCC IN BASQUE DITRANSITIVES:
In finite clauses, the direct object of a ditransitive verb must be 3rd person.
 - (2) a. Zuk niri liburu-a saldu d-i-∅-da-zu
you.E me.D book-ART_{sg}(A) sell 3.A-√-sg.A-1sg.D-2sg.E
‘You have sold the book to me.’
 - b. * Zuk harakin-ari ni saldu n-(a)i-∅-o-zu
you.E butcher-ART_{sg}.D me(A) sell 1.A-√-sg.A-3sg.D-2sg.E
‘You have sold me to the butcher.’ [Laka 1996]
- As you can see from (2a–b), the PCC is *asymmetric* —
 - (1) is restriction on the features of the DO in the presence of an IO;
 - but there is no corresponding restriction on the features of the IO in the presence of a DO
 - The PCC is also *person-specific* —
 - it is a restriction on the PERSON features of the DO in the presence of an IO;
 - but there is no corresponding restriction on the NUMBER features of the DO in the presence of an IO (see Nevins 2011, *a.o.*)¹

5. The PCC is syntactic (Albizu 1997, Rezac 2008b)

- Albizu (1997) and Rezac (2008b) show that the PCC is a fundamentally syntactic effect
 - and not, say, a morphological filter (cf. Bonet 1991, 1994, *a.o.*)
- They focus on two-place unaccusatives —
(verbs that take an ABS DP and a DAT DP, but no ERG DP)
— which Rezac calls “applicative unaccusatives.”
- It turns out that there are two classes of applicative unaccusatives in Basque:
 - DAT ≫ ABS verbs
 - ABS ≫ DAT verbs
 (for reasons that I won’t get into here, all true ditransitives, i.e., triadic verbs, are DAT ≫ ABS in Basque; see Elordieta 2001, Rezac 2008b)
- (3) **DAT ≫ ABS:**
 - a. Kepa-ri bere buru-a gusta-tzen zako
Kepa-DAT his head-ART_{sg}(ABS) like-HAB AUX
‘Kepa likes himself.’
 - b. * Kepa bere buru-a-ri gusta-tzen zako
Kepa(ABS) his head-ART_{sg}-DAT like-HAB AUX
- (4) **ABS ≫ DAT:**
 - a. * Kepa-ri bere buru-a ji-ten zako ispilu-a-n
Kepa-DAT his head-ART_{sg}(ABS) come-PROG AUX mirror-ART_{sg}(ABS)-LOC
Intended: ‘Kepa is approaching himself in the mirror.’
 - b. Miren bere buru-a-ri mintzatu zaio
Miren(ABS) his/her head-ART_{sg}-DAT talk-PRT AUX
‘Miren talked to herself.’ [Rezac 2008b:75]

¹But see Coon et al. (2017) for a more nuanced view—as well as evidence, from copular clauses in German, for the existence of a corresponding NUMBER effect. Importantly, Coon et al.’s results are fully compatible with the approach taken here. That is because the NUMBER effect that they find only arises in configurations where the intervener stays in place after PERSON agreement has been attempted. In canonical PCC configurations, like the ones discussed here, the intervener (in this case, the indirect object) undergoes clitic doubling right after PERSON probing, and ceases to be an intervener; see Béjar & Rezac (2003) and Preminger (2009), *a.o.*, for details.

This compares favorably with approaches such as Nevins 2007, where the PERSON-specificity of the PCC is derived from an ontological difference between PERSON and NUMBER features. The latter would have trouble accommodating data of the sort Coon et al. discuss.

- And it is also true intra-linguistically —
 - non-finite environments in Basque (incl. nominalizations) lack agreement morphology; and these environments do not exhibit the PCC:

(10) * Zuk harakin-ari ni saldu *n-(a)i-∅-o-zu*
 you.E butcher-ART_{sg,D} me(A) sell 1.A-√-sg.A-3sg.D-2sg.E
 ‘You have sold me to the butcher.’ [=(2b)]

(11) Gaizki irudi-tzen ∅-zai-∅-t [zuk ni harakin-ari sal-tze-a]
 wrong look-IMP_F 3.A-√-sg.A-1sg.D you.E me(A) butcher-ART_{sg,D} sold-NM_Z-ART_{sg(A)}
 ‘It seems wrong to me for you to sell me to the butcher.’ [Laka 1996]

- the embedded non-finite clause in (11) contains the same verb, and the same combination of arguments, as the ungrammatical (10)
 - but this embedded clause lacks agreement morphology, and the PCC does not arise

Now let us juxtapose this with the results of §5:

- We have, in the PCC, a **syntactic effect** par excellence—which nevertheless only arises in the presence of **overt agreement morphology**

⇒ *How can something in narrow syntax be sensitive to the overtness of agreement morphology?*

As best I can tell, the only possible answer is this:²

The mechanisms of agreement & intervention, implicated in the PCC, are only in place when we can see them.

- To put it another way:
 - **there is generally no such thing as “abstract” agreement, null across the entire paradigm**

(There is no prohibition against particular cells being null in what is otherwise an overt paradigm: the PCC still arises in such cases.)

⇒ The PCC goes away in the absence of overt agreement morphology not because it is a morphological filter —

(we already saw in §5 that the PCC cannot be a morphological filter)

— but because, in the absence of overt agreement morphology, *there is no agreement there*, not even “abstract” agreement.

7. The clitic-doubling caveat

- Our characterization so far of the intra- and cross-linguistic distribution of PCC effects has been idealized in one important respect:
 - it abstracted away from the distinction between φ -**agreement** and **clitic doubling**, treating them both as “agreement morphology”

A quick refresher:

- (12) a. **φ -agreement:** valuation relation between a functional head H^0 and DP— as a result of which, the φ -feature values associated with the interpretation of the DP ([participant], [plural], etc.) come to be expressed on H^0
- b. **clitic doubling:** the occurrence of a D^0 -like morpheme, which is φ -feature-matched to the doubled DP, and appears alongside an appropriate host

- Clitic doubling, in contrast to φ -agreement, bears the hallmarks of movement
- in particular, clitic doubling creates new antecedents for binding—and thus, repairs Weak Crossover (WCO) violations, for example:

(Modern Greek; Anagnostopoulou 2003:207)

- (13) a. [Kathe mitera]_i sinodhapse [_{vP} t_i (t_v) [to pedhi tis]_i]
 [every mother].NOM accompanied [the child hers].ACC
 ‘[Every mother]_i accompanied [her_i child]_k.’
- b. ?* [I mitera tu]_k sinodhapse [_{vP} t_i (t_v) [to kathe pedhi]_k]
 [the mother his].NOM accompanied [the every child].ACC
 ‘[His_k mother]_i accompanied [every child]_k.’
- c. [Kathe mitera]_i to_k sinodhapse [_{vP} t_i (t_v) [to pedhi tis]_k]
 [every mother].NOM CL.ACC accompanied [the child hers].ACC
 ‘[Every mother]_i accompanied [her_i child]_k.’
- d. [I mitera tu]_k to_k sinodhapse [_{vP} t_i (t_v) [to kathe pedhi]_k]
 [the mother his].NOM CL.ACC accompanied [the every child].ACC
 ‘[His_k mother]_i accompanied [every child]_k.’

²The only possible answer that maintains the modularity of syntax vs. morpho-phonology, that is.

Morphological considerations (Arregi & Nevins 2008, 2012):

• **φ -agreement:**

- there is no particular reason to expect that the exponents of φ -agreement will resemble the free-standing pronouns of the language³
- moreover, it is possible for these exponents to exhibit allomorphy, and even suppletion, based on the (other) features of the head H⁰
 - a common example would be the agreement exponents in one tense/aspect differing from those found in another tense/aspect
 - e.g. *am-are-is* vs. *was-were-was*

• **clitic doubling:**

- doubled clitics do not, in contrast to φ -agreement, exhibit allomorphy based on specific features of their hosts
- we may expect that at least in some cases, doubled clitics will bear morpho-phonological resemblance to the free-standing pronouns of the language

Another example of clitic doubling:⁴

(Basque; Laka 1996)

- (14) Guraso-e-k ni-ri belarritako ederr-ak erosi
 parent(s)-ART_{pl}-ERG me-DAT earring(s) beautiful-ART_{pl}(ABS) bought
 d-i-zki-da-te.
 3.ABS-√-pl.ABS-1SG-DAT-3pl.ERG
 ‘(My) parents have bought me beautiful earrings.’

Further issues:

(i) **apparent sensitivity to referential properties of the doubled nominal**

- clitic doubling is not, generally speaking, conditioned by factors like *animacy, specificity, definiteness*, etc. etc.

³Diachronically, φ -agreement in the narrow sense often develops from clitics, which themselves often develop from free-standing pronouns. Consequently, it is *possible* for the forms in question to retain their resemblance. The point here is merely that once the synchronic grammar of the speakers involves φ -agreement rather than clitic doubling, there is no longer any principled reason to expect such similarity. Indeed, it is possible that sound changes affecting doubled clitics could serve as a catalyst for the diachronic reanalysis of clitics into φ -agreement in the narrow sense.

⁴For extensive argumentation that these are indeed instances of clitic doubling, see Arregi & Nevins (2008, 2012), as well as Preminger 2009.

- nor is it optional, in the general case
- clitic doubling in (14), for example, is entirely obligatory, irrespective of the properties of the doubled nominals
 - they can be definite or indefinite; quantificational or not; rigid designators or not; etc.

⇒ therefore, even in languages where clitic doubling looks like it is sensitive to such nominal properties —

(Porteño Spanish; Suñer 1988:396)

- (15) a. La_i oían [a Paca / a la niña / a la gata]_i.
 CL hear.PAST.3pl A Paca / A the girl / A the cat
 ‘They listened to Paca / the girl / the cat.’
 b. (*La_i) buscaban [a alguien que los ayudara]_i.
 (*CL) search.PAST.3pl A somebody COMP CL.pl help.SBJNCT
 ‘They were looking for somebody who could help them.’

— it would be a mistake to build this sensitivity into the clitic-doubling operation itself

- instead, these properties regulate *movement* of the full noun phrase
 - into a position from which clitic doubling is then both possible and obligatory (Diesing 1992, Sportiche 1998, Merchant 2006, *a.o.*)
- importantly, animacy/definiteness/specificity are known to regulate A-movement of DPs, even in languages that lack clitic doubling entirely
 - cf. *Object-Shift* in Scandinavian, Turkic, Yiddish, ... (Diesing 1997, Diesing & Jelinek 1993, *a.o.*)
- it would therefore be redundant to build this sensitivity into the clitic-doubling operation itself

(ii) **locality**

- for the purposes of locality, doubled DPs behave like traces of A-movement (Anagnostopoulou 2003, *a.o.*)
 - which are known to be non-interveners, at least for φ -agreement / further A-movement operations (Holmberg & Hrǫarsdóttir 2003, *a.o.*)

- example:⁵

(16) a. [[Miren-entzat]_{PP} [harri horiek]_(ABS) altxa-tze-n] probatu
Miren-BEN stone(s) those_{pl}ABS lift-NMZ-LOC attempted
[d-it-u-zte]_{aux}
3.ABS-pl.ABS-√-3pl.ERG
‘They have attempted to lift those stones for Miren.’

b. [[Lankide-e-i]_{DAT} [liburu horiek]_{ABS} irakur-tze-n] probatu
colleague(s)-ART_{pl}-DAT book(s) those_{pl}(ABS) read-NMZ-LOC attempted
[d-∅/*it-u-(z)te]_{aux}
3.ABS-sg/*pl.ABS-√-3pl.ERG
‘They have attempted to read those books to the colleagues.’

[Preminger 2009:640–641]

⇒ dative DPs are interveners in Basque

- but they aren't interveners when they've been clitic-doubled;
compare (16b) with (14):

(14) Guraso-e-k ni-ri belarritako ederr-ak erosi
parent(s)-ART_{pl}-ERG me-DAT earring(s) beautiful-ART_{pl}(ABS) bought
d-i-zki-da-te.
3.ABS-√-pl.ABS-1sg.DAT-3pl.ERG
‘(My) parents have bought me beautiful earrings.’

- in (14) (a monoclausal ditransitive), the dative DP has been clitic-doubled, and agreement with the plural absolutive DP goes through

(iii) clitic doubling vs. cliticization

- since clitic doubling exists, and *pro* exists, I am going to assume there is no third thing called (syntactic) ‘cliticization’;
- rather, there is simply clitic doubling of *pro*

For more on clitic doubling, see Anagnostopoulou (2006, 2017), and references therein.

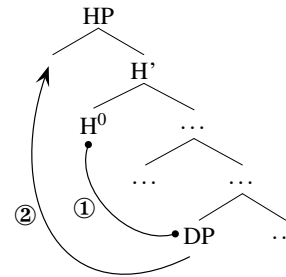
⇒ But if clitic doubling is not agreement, *why is its occurrence enough to give rise to PCC effects?*

8. A non-explanation: agreement as a precursor to all DP movement

Here's an answer that doesn't work: “Because clitic doubling is DP movement, and all DP movement is prefigured by an agreement relation.”

(17) A TWO-STEP APPROACH TO DP MOVEMENT (Chomsky 2000, 2001)

- ① H⁰ enters into an *Agree* relation in φ -features with a DP
→ *and subsequently/consequently*:
- ② the DP moves to the domain of H⁰ (= [Spec,HP])



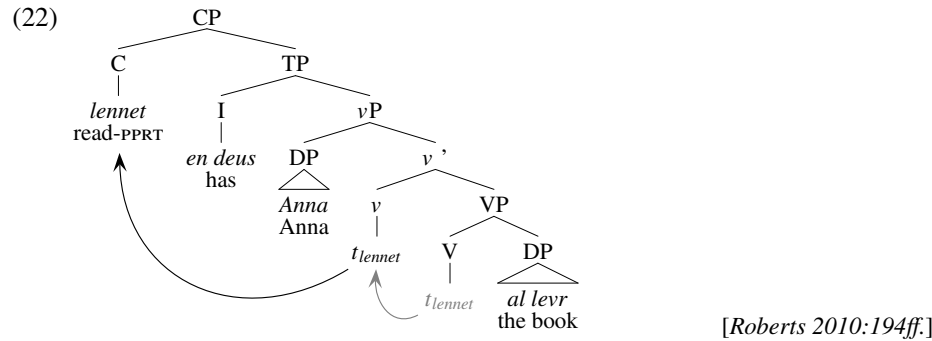
We know that (17) is wrong (at least as a general requirement). Here's why:

- Overt agreement in φ -features is double-dissociable from DP movement
 - e.g. in Icelandic, there are sentences where agreement targets a nominative non-subject, while a non-nominative DP (e.g. a dative) moves to subject position despite failing to control φ -agreement:

(18) [Einhverjum stúdent]_i finnast _{t_i} tölvurnar ljótar
some student.SG.DAT find.PL computers.the.PL.NOM ugly
‘Some student finds the computers ugly.’ [Holmberg & Hróarsdóttir 2003:999]

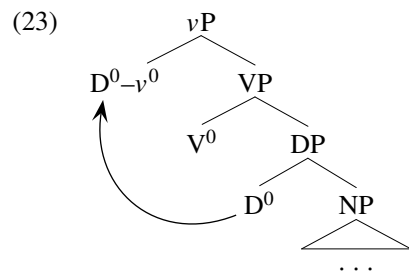
- The standard retort to this is the abstractness gambit:

⁵The data in (16a–b) are from “substandard” varieties of Basque; see Etxepare (2006:303n2).

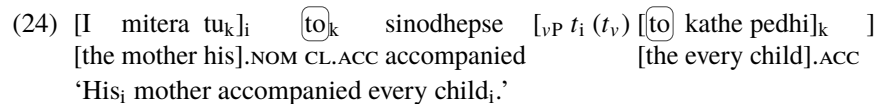


- for discussion and, crucially, for arguments that these Breton data indeed involve long head movement (rather than, say, remnant VP-fronting) —
 - see Borsley & Kathol (2000), Borsley et al. (1996), Jouitteau (2005), Roberts (2004, 2010), Schafer (1994) and Stephens (1982)
- and for evidence of long head movement in other empirical domains —
 - see Harizanov (2016), Lambova (2004), Lema & Rivero (1990), Rivero (1991), Vicente (2007, 2009) and Wilder & Čavar (1994)

• So here’s the structure of clitic doubling:



➤ At this juncture, you might be asking: why, then, is D⁰ pronounced twice?

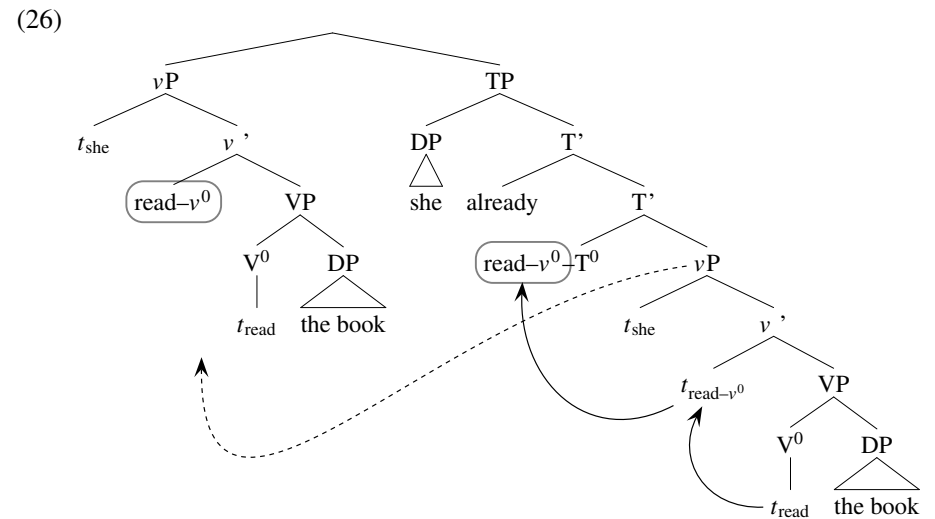
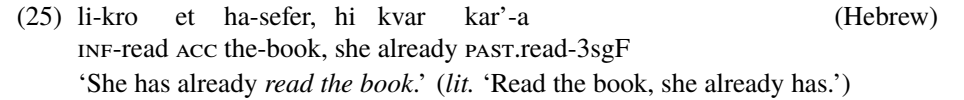


[Modern Greek; =(13d)]

• ANSWER:

Under certain conditions, head movement gives rise to “double pronunciation”

- as an example, consider predicate clefting in Hebrew (see Landau 2006 for details on this construction)



- of course, what we really need is a theory for when head movement does and does not result in double pronunciation;
- here’s a theory that I think works:

(27) CONDITIONS ON PHONOLOGICAL CHAIN REDUCTION OF HEAD MOVEMENT

Let X⁰ be a head that undergoes movement to Y⁰, and let α be the lower copy of X⁰. α will be phonologically deleted **iff** either of the following conditions is met:

- α and Y⁰ are not separated by a phasal maximal projection (incl. XP)
- X and Y are part of the same extended projection (Grimshaw 2000), and Y⁰ c-commands α in the surface structure (i.e., no constituent containing α but not Y⁰ has undergone subsequent movement to a position above Y⁰)

- for reasons of time, I won’t go into this in more detail here
 - see Preminger (2019)

- and for ways in which (something like) (27.i–ii) might be derivable from more basic assumptions, see Gribanova & Harizanov 2016

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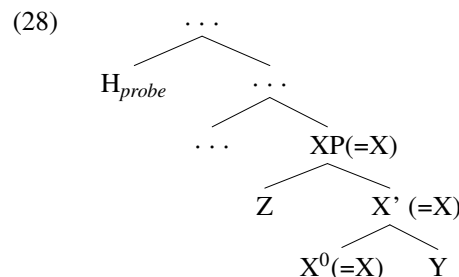
➤ To recap, what we’re looking for is this:

- a reason why, unlike phrasal movement, non-local head movement (as in (23)) *does* require a prior agreement relation
 - because that would explain why clitic doubling triggers the PCC (which, you’ll recall, is contingent on syntactic agreement)

9.2. Head movement & locality

- Here, I build on an idea by Hornstein (2009:72–74) and Roberts (2010:33–40):
 - Bare Phrase Structure + iterative downward search conspire to yield an *A-over-A*-like effect —
 - ruling out most, **but not all**, instances of head movement
- Here’s how it works:
 - Bare Phrase Structure (Chomsky 1994) tells us that the label of the entire phrase (“XP”) is nothing but the head itself
 - in other words, the distinction between X^0/X_{\min} and XP/X^{\max} can be defined *relationally* —
 - but it cannot be defined *featurally*

- if movement is viewed from the perspective of the attractor (or in earlier versions of the theory, the perspective of the landing site) —
 - an iterative downward search algorithm,⁶ looking for a node to move (or remerge), will encounter the phrasal node first



- and because the two are literally one and the same object:
 - there is no possible featural search criterion that would result in skipping the phrasal label (“XP”) in favor of the head (“X⁰”)

As it stands, this predicts that head movement should never be possible, which is obviously too strong...

⁶Here is an explicit algorithm for iterative downward search:

- (i) a. Let \mathcal{P} be a syntactic probe, and let XP be \mathcal{P} ’s sister
- b. QUERY: Is XP a viable goal? If so, **halt with “XP” as the search result**
- c. For every specifier ZP of XP, QUERY: Is ZP a viable goal? If so, **halt with “ZP” as the search result**
- d. QUERY: Is XP a phase? If so, **halt with no goal**
- e. QUERY: Does X^0 have a complement? If not, **halt with no goal**
- f. Return to step (b), using the constituent in [Compl.X] as the new “XP”

See also Kitahara (1994, 1997), Koizumi (1995), Müller (1996, 1998) and Takano (1994), *a.o.*; and for discussion of the adequacy conditions on iterative downward search algorithms, see Preminger (2019).

9.3. The Principle of Minimal Compliance (Richards 1998, 2001)

- (29) a. * [Which book]_k did the journalist spread the rumor that the senator wanted to ban *t_k*?
 b. ? [Which journalist]_i *t_i* spread the rumor that the senator wanted to ban [which book]_k?
 • Looking at (29a–b), one might be tempted to proffer an explanation along the following lines:
 o “(29b) is better because, in that example, the *wh*-phrase generated inside the island does not try to move out”
 ➤ What Richards (1998, 2001) shows is that such an explanation is at best insufficient...

- (30) a. * [Koja kniga]_k razprostranjavaše žurnalistât [mâlvata če senatorât which book spread journalist rumor that senator iska da zabrani *t_k*] ?
 wanted to ban
 ‘[Which book]_k did the journalist spread the rumor that the senator wanted to ban *t_k*?’
 b. ? [Koj žurnalist]_i [koja kniga]_k *t_i* razprostranjavaše [mâlvata če which journalist which book spread rumor that senatorât iska da zabrani *t_k*] ?
 senator wanted to ban
 ‘[Which journalist]_i *t_i* spread the rumor that the senator wanted to ban [which book]_k?’

- once one *wh*-phrase has moved to [Spec,CP] of the interrogative clause —
 – other potential movers to the same position are exempt from Subjacency (or whatever else is responsible for strong islands)

[NB: This is pretty bad news for the idea that syntactic islands can be derived from the spellout (or Transfer) of phases.]

- Importantly, these effects pertain to multiple relations established with the same probe / landing-site; accordingly —
 o the amelioration exemplified by (30b) does not arise if the island-violating movement targets a C^0 that no other, well-formed movement has targeted:

- (31) * [Kakvo]_k kazva tozi služitel na [žurnalistite, kojto_i [*t_i* razsledvat *t_k*]], če what tells this official to journalists who investigate that komunistite sa zabludili redaktorite im? communists AUX deceived editors their
Intended: ‘[What]_k does this official tell journalists who_i [*t_i* are investigating *t_k*] that the communists have deceived their editors?’
 [Richards 1997:256]

(32) PRINCIPLE OF MINIMAL COMPLIANCE (PMC)

[my version; slightly revised from Richards 1998, 2001]

Once a probe *P* has successfully targeted a goal *G*, any other goal *G'* that meets the same featural search criteria, and is dominated or c-commanded by *G* (= dominated by the mother of *G*), is accessible to subsequent probing by *P* irrespective of locality conditions.

9.4. Minimal Remerge, head movement, and Anti-Locality

- Given the PMC, only the first syntactic relation targeting *X* will be subject to the aforementioned *A-over-A*-like locality condition
 - o in other words, only the first syntactic relation is obligated to target XP/X^{\max}
- But this, on its own, is not enough to give rise to head movement
 - o that’s because, as we already pointed out, there is no featural search criterion that could favor X^0/X_{\min} over XP/X^{\max}

⇒ So the question remains: how does head movement (i.e., movement of X^0/X_{\min} alone) ever arise?

• Proposal:⁷

(33) MINIMAL REMERGE

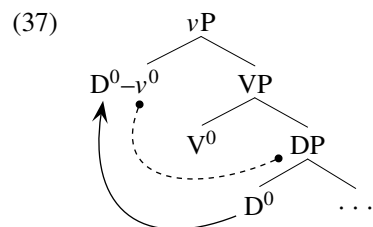
If X^0/X_{\min} is movable, move only X^0/X_{\min} .

⁷There is a certain affinity (in spirit, though, crucially, not in technical detail) between (33) and Chomsky’s (1995:262ff.) suggestion that—all else being equal—feature-movement is the preferred mode of syntactic movement. See also Donati (2006:29–30).

10. Clitic doubling, locality, and acquisition

Recall that clitic doubling is non-local head movement (§9.1) —

- In this case, the probe (e.g. v^0) is *not* related to the goal (the DP in [Compl,V]) via c-selection
 - because the goal DP is the complement of V (which is probably never the cliticization host; see §9.1, above)
- If clitic doubling has successfully obtained, **there must have been a prior agreement relation** between the probe and (the phrasal projection of) the goal
 - otherwise, the *A-over-A*-like condition would have prohibited head movement of D alone
- It is by virtue of this prior agreement relation that the *A-over-A*-like condition has already been satisfied once —
 - and, due to the PMC, subsequent relations are no longer subject to it



- **But doesn't this violate the earlier dictum on "no null agreement"?**
 - after all, in many cases of clitic doubling, there seems to be no overt morpho-phonological expression of a prior agreement relation:

(38) Le vi al profesor ayer (Leísta Spanish)
 CL I.saw A-the professor yesterday
 'I saw the professor yesterday.' [Bleam 1999:45]

- in (38), for example, there is no overt exponence of an agreement relation between v^0 and the object —
 - (the verb displays subject-agreement, but that is irrelevant here; the point is that there is no object-agreement independent of the clitic)
 - and this is paradigm-wide, i.e., it is not a matter of the particular φ -features of *profesor*

NB: There are instances of clitic doubling where, alongside the clitic itself, one finds overt agreement with the doubled argument. For example: clitic doubling of subjects in certain Northern Italian dialects (Poletto 2000). While this may provide circumstantial support for the idea that clitic doubling is prefigured by syntactic agreement as in (37), it does not change the facts of (38) and many cases like it.

- The answer, obviously, is "yes":
 - this does violate the aforementioned dictum ("no null agreement")
- ⇒ meaning this dictum cannot be an actual, combinatorial principle of grammar

.....

- Before moving on, it is worth pointing out that *were* this dictum an actual principle of grammar, it would raise the same modularity issue discussed in §6
 - as a grammatical principle, a ban on null agreement would require simultaneous reference to syntax and morpho-phonology
- The problem would be even more severe, in fact, because the principle would have to be *trans-derivational*:
 - it is not the morpho-phonological content of a particular terminal in a particular derivation that is at issue;
 - the requirement is that some cells in the paradigm must be overt

.....

My proposal is that the *no null agreement* dictum is not a principle of grammar at all; it is an **acquisition strategy**.

- The learner starts with the assumption in (39):

(39) INITIAL STATE OF ACQUISITION
 There are no unvalued φ -features on any functional heads.

- There is a specific set of triggers that can prompt the learner to revise (39), and posit unvalued φ -features on a particular functional head:
 - (i) overt morpho-phonological covariance in φ -features between a functional head and a DP
 - (ii) long-distance head movement (of a D head)
- But crucially, the list of things that may prompt the learner to revise (39) is anything but open-ended —

- for example, the list absolutely cannot include “there’s a binding / fake-indexical / ... relation between F and a DP”
- that would render it impossible to properly account for the distribution of PCC effects
 - recall that binding / fake-indexicals / ... do not give rise to the PCC;
 - it only arises in the presence of overt φ -agreement or clitic doubling (and recall that this cannot be a morphological matter)
- the conclusion, as already argued elsewhere—and on independent grounds—is that these other relations do *not* involve syntactic agreement in φ -features
 - see also Preminger 2013, 2015, Preminger & Polinsky 2015

Returning to the main point... we now have an acquisition roadmap for how a “PCC language” is acquired:

- The learner starts with the assumption that there are no unvalued φ -features on v (as mandated by (39))
- Very quickly, however, she will be driven to revise this assumption:
 - either because v shows overt covariance in φ -features with the direct object, as in Basque
 - or because there is a D associated with the direct object that cliticizes to v (i.e., D undergoes long-distance head movement), as in Spanish
 - meaning there has to be a prior agreement relation between v and DP
 - satisfying the *A-over-A*-like condition once, and allowing (through the PMC) for subsequent operations to ignore it
 - and, importantly, misidentifying one of these (φ -agreement or clitic doubling) as the other will be completely innocuous, at this stage
 - since, in both cases, syntactic agreement in φ -features will have been posited
 - this is good news because agreement vs. clitic doubling is a frequent nexus of diachronic change (~ misanalysis)
 - see, e.g., van Gelderen (2011) and references therein
- Once unvalued φ -features on v have been posited, the PCC arises as a consequence of the mechanisms and agreement & intervention discussed in §5

11. Conclusion

In this talk, we have seen:

- That the PCC is a fundamentally *syntactic* phenomenon (§5)
- That it is nevertheless sensitive to the presence of overt φ -agreement, meaning there is no agreement where we cannot see agreement (*no null agreement*; §6)
- That there is a caveat to this, whereby clitic doubling behaves as though it involved agreement (even though clitic doubling is itself not agreement; §7)
- That we cannot maintain that *all* movement (or even just all DP movement or A-movement) is prefigured by φ -agreement (§8)
 - and so this cannot explain the clitic-doubling caveat
- That a more promising alternative can be found by investigating the interplay of Bare Phrase Structure, iterative downward search, and the Principle of Minimal Compliance (§9)
 - in particular, the idea is that movement always “wants” to move only the head, but this is seldom possible due to an *A-over-A*-like locality condition
 - but if the landing site stands in some prior syntactic relation (e.g. c-selection or φ -agreement) to the relevant phrase, this satisfies the locality condition once
 - and, given the PMC, subsequent syntactic operations need not adhere to the locality condition
 - ⇒ thereby enabling head movement
- Clitic doubling, *qua* long-distance head movement, cannot be prefigured by c-selection (a strictly local relationship)
 - and therefore, requires a prior agreement relation to have satisfied the *A-over-A*-like locality condition
 - ⇒ explaining why clitic doubling always entails a syntactic agreement relation
 - and thus, why clitic doubling “counts” for the purposes of the PCC (§10)
- Finally, I showed how this picture could arise through a conservative acquisition strategy regarding the distribution of unvalued φ -features on functional heads
 - which has, as its consequence, the *no null agreement* generalization, as well as its clitic-doubling caveat



References

- Abels, Klaus. 2003. *Successive cyclicity, anti-locality, and adposition stranding*. Doctoral dissertation, Storrs, CT: University of Connecticut.
- Albizu, Pablo. 1997. Generalized Person-Case Constraint: a case for a syntax-driven inflectional morphology. *Anuario del Seminario de Filología Vasca Julio de Urquijo (ASJU, International Journal of Basque Linguistics and Philology)* XL:1–33.
- Anagnostopoulou, Elena. 2003. *The syntax of ditransitives: evidence from clitics*. Berlin: Mouton de Gruyter.
- Anagnostopoulou, Elena. 2005. Strong and weak person restrictions: a feature checking analysis. In *Clitic and affix combinations: theoretical perspectives*, eds. Lorie Heggie & Francisco Ordonez, *Linguistics Today* 74, 199–235. Amsterdam: John Benjamins.
- Anagnostopoulou, Elena. 2006. Clitic doubling. In *The Blackwell companion to syntax*, eds. Martin Everaert & Henk van Riemsdijk, vol. 1, 519–581. Oxford: Blackwell.
- Anagnostopoulou, Elena. 2017. Clitic doubling. In *The Wiley-Blackwell companion to syntax*, eds. Martin Everaert & Henk van Riemsdijk, 2nd Edition, Oxford: Wiley.
- Arregi, Karlos & Andrew Ira Nevins. 2008. Agreement and clitic restrictions in Basque. In *Agreement restrictions*, eds. Roberta D'Alessandro, Susann Fischer & Gunnar Hrafn Hrafnbjargarson, 49–86. Berlin: Mouton de Gruyter.
- Arregi, Karlos & Andrew Ira Nevins. 2012. *Morphotactics: Basque auxiliaries and the structure of spellout*. *Studies in Natural Language & Linguistic Theory* 86, Dordrecht: Springer.
- Baker, Mark C. 2008. *The syntax of agreement and concord*. *Cambridge Studies in Linguistics* 115, Cambridge: Cambridge University Press.
- Béjar, Susana & Milan Rezac. 2003. Person licensing and the derivation of PCC effects. In *Romance linguistics: theory and acquisition*, eds. Ana Teresa Perez-Leroux & Yves Roberge, 49–62. Amsterdam: John Benjamins.
- Bleam, Tonia. 1999. *Leísta Spanish and the syntax of clitic doubling*. Doctoral dissertation, Newark, DE: University of Delaware.
- Bobaljik, Jonathan David & Susi Wurmbrand. 2014. *Questions with declarative syntax tell us what about selection?*, Ms., Storrs, CT: University of Connecticut.
- Bonet, Eulàlia. 1991. *Morphology after syntax: pronominal clitics in Romance*. Doctoral dissertation, Cambridge, MA: MIT.
- Bonet, Eulàlia. 1994. The Person-Case Constraint: a morphological approach. In *The morphology-syntax connection*, eds. Heidi Harley & Colin Phillips, *MIT Working Papers in Linguistics* 22, 33–52. Cambridge, MA: MITWPL.
- Borsley, Robert D. & Andreas Kathol. 2000. Breton as a V2 language. *Linguistics* 38:665–710.
- Borsley, Robert D., Maria Luisa Rivero & Janig Stephens. 1996. Long head movement in Breton. In *The syntax of the Celtic languages*, eds. Ian Roberts & Robert D. Borsley, 53–74. Cambridge: Cambridge University Press.
- Carstens, Vicki. 2000. Concord in minimalist theory. *Linguistic Inquiry* 31:319–355, doi: <10.1162/002438900554370>.
- Chomsky, Noam. 1994. *Bare phrase structure*. *MIT Occasional Papers in Linguistics* 5, Cambridge, MA: MITWPL.
- Chomsky, Noam. 1995. *The Minimalist Program*. Cambridge, MA: MIT Press.
- Chomsky, Noam. 2000. Minimalist inquiries: the framework. In *Step by step: essays on minimalist syntax in honor of Howard Lasnik*, eds. Roger Martin, David Michaels & Juan Uriagereka, 89–155. Cambridge, MA: MIT Press.
- Chomsky, Noam. 2001. Derivation by phase. In *Ken Hale: a life in language*, ed. Michael Kenstowicz, 1–52. Cambridge, MA: MIT Press.
- Coon, Jessica, Stefan Keine & Michael Wagner. 2017. Hierarchy effects in copular constructions: the PCC corner of German. In *Proceedings of the 47th meeting of the North East Linguistic Society (NELS 47)*, eds. Andrew Lamont & Katerina Tetzloff, Amherst, MA: GLSA, 205–214, URL: <https://ling.auf.net/lingbuzz/003456>.
- Diesing, Molly. 1992. *Indefinites*. Cambridge, MA: MIT Press.
- Diesing, Molly. 1997. Yiddish VP order and typology of object movement in Germanic. *Natural Language & Linguistic Theory* 15:369–427, doi: <10.1023/A:1005778326537>.
- Diesing, Molly & Eloise Jelinek. 1993. The syntax and semantics of object shift. *Working Papers in Scandinavian Syntax* 51:1–54.
- Donati, Caterina. 2006. On *wh*-head movement. In *wh-movement: moving on*, eds. Lisa L.-S. Cheng & Norbert Corver, 21–46. Cambridge, MA: MIT Press.
- Elordieta, Arantazu. 2001. *Verb movement and constituent permutation in Basque*. Doctoral dissertation, Leiden: Leiden University. LOT dissertation series.
- Ettxepare, Ricardo. 2006. Number long distance agreement in (standard) Basque. In *Studies in Basque and historical linguistics in memory of Robert L. Trask*, eds. Joseba A. Lakarra & Jose Ignacio Hualde, *Supplements of the Anuario del Seminario de Filología Vasca Julio de Urquijo (ASJU, International Journal of Basque Linguistics and Philology)* XL:1–2, 303–350.
- van Gelderen, Ely. 2011. *The linguistic cycle: language change and the language faculty*. Oxford: Oxford University Press.
- Gribanova, Vera & Boris Harizanov. 2016. *Whither head movement?*, Paper presented at the *Stanford Workshop on Head Movement*.
- Grimshaw, Jane. 2000. Locality and extended projections. In *Lexical specification and insertion*, eds. Peter Coopmans, Martin Everaert & Jane Grimshaw, 115–134. Amsterdam: John Benjamins.
- Harizanov, Boris. 2016. *Head movement to specifier positions in Bulgarian participle fronting*. Paper presented at the 90th Winter Meeting of the Linguistic Society of America (LSA 90). URL: <http://stanford.edu/~bharizan/pdfs/Harizanov_2016_LSA_handout.pdf>.
- Haspelmath, Martin. 2004. Explaining the ditransitive Person-Role Constraint: a usage-based approach. *Constructions*, URL: <https://journals.linguisticsociety.org/ela/language/constructions/article/view/3073.html>.

- Holmberg, Anders & Þorbjörg Hróarsdóttir. 2003. Agreement and movement in Icelandic raising constructions. *Lingua* 113:997–1019, doi: <10.1016/S0024-3841(02)00162-6>.
- Hornstein, Norbert. 2009. *A theory of syntax: minimal operations and universal grammar*. Cambridge: Cambridge University Press.
- Jouitteau, Mélanie. 2005. *La syntaxe comparée du Breton*. Doctoral dissertation, Nantes: Université de Nantes.
- Kitahara, Hisatsugu. 1994. Restricting ambiguous rule-application: a unified analysis of movement. In *Formal approaches to Japanese linguistics I*, eds. Masatoshi Koizumi & Hiroyuki Ura, MIT Working Papers in Linguistics 24, 179–209. Cambridge, MA: MITWPL.
- Kitahara, Hisatsugu. 1997. *Elementary operations and optimal derivations*. Cambridge, MA: MIT Press.
- Koizumi, Masatoshi. 1995. *Phrase structure in minimalist syntax*. Doctoral dissertation, Cambridge, MA: MIT.
- Kratzer, Angelika. 2009. Making a pronoun: fake indexicals as windows into the properties of pronouns. *Linguistic Inquiry* 40:187–237, doi: <10.1162/ling.2009.40.2.187>.
- Laka, Itziar. 1996. *A brief grammar of Euskara, the Basque language*. Open-access grammar, ISBN: 84-8373-850-3, Vitoria-Gasteiz: Euskal Herriko Unibertsitatea (University of the Basque Country). URL: <http://www.ehu.es/en/web/eins/basque-grammar>.
- Lambova, Mariana. 2004. On triggers of movement and effects at the interfaces. In *Triggers*, eds. Anne Breitbarth & Henk van Riemsdijk, 231–258. Berlin: Mouton de Gruyter.
- Landau, Idan. 2006. Chain resolution in Hebrew V(P)-fronting. *Syntax* 9:32–66, doi: <10.1111/j.1467-9612.2006.00084.x>.
- Lema, José & Maria Luisa Rivero. 1990. Long head movement: ECP vs. HMC. In *Proceedings of the 20th meeting of the North East Linguistic Society (NELS 20)*, eds. Juli Carter, Rose-Marie Déchaine, Bill Philip & Tim Sherer, vol. 2, Amherst, MA: GLSA, 333–347.
- Mallen, Enrique. 1997. A minimalist approach to concord in noun phrases. *Theoretical Linguistics* 23:49–78, doi: <10.1515/thli.1997.23.1-2.49>.
- Matushansky, Ora. 2006. Head movement in linguistic theory. *Linguistic Inquiry* 37:69–109, doi: <10.1162/002438906775321184>.
- Merchant, Jason. 2006. Polyvalent case, geometric hierarchies, and split ergativity. In *Proceedings of the 42nd annual meeting of the Chicago Linguistic Society (CLS 42)*, eds. Jackie Bunting, Sapna Desai, Robert Peachey, Chris Straughn & Zuzana Tomkova, vol. 2, Chicago, IL: Chicago Linguistic Society, 57–76.
- Müller, Gereon. 1996. A constraint on remnant movement. *Natural Language & Linguistic Theory* 14:355–407, doi: <10.1007/BF00133687>.
- Müller, Gereon. 1998. *Incomplete category fronting*. Dordrecht: Kluwer Academic Publishers.
- Nevins, Andrew Ira. 2007. The representation of third person and its consequences for Person-Case effects. *Natural Language & Linguistic Theory* 25:273–313, doi: <10.1007/s11049-006-9017-2>.
- Nevins, Andrew Ira. 2011. Multiple Agree with clitics: person complementarity vs. omnivorous number. *Natural Language & Linguistic Theory* 29:939–971, doi: <10.1007/s11049-011-9150-4>.
- Poletto, Cecilia. 2000. *The higher functional field*. Oxford: Oxford University Press.
- Preminger, Omer. 2009. Breaking agreements: distinguishing agreement and clitic doubling by their failures. *Linguistic Inquiry* 40:619–666, doi: <10.1162/ling.2009.40.4.619>.
- Preminger, Omer. 2011a. *Agreement as a fallible operation*. Doctoral dissertation, Cambridge, MA: MIT.
- Preminger, Omer. 2011b. Asymmetries between person and number in syntax: a commentary on Baker’s SCOPA. *Natural Language & Linguistic Theory* 29:917–937, doi: <10.1007/s11049-011-9155-z>.
- Preminger, Omer. 2013. That’s not how you agree: a reply to Zeijlstra. *The Linguistic Review* 30:491–500, doi: <10.1515/tlr-2013-0015>.
- Preminger, Omer. 2014. *Agreement and its failures*. Linguistic Inquiry Monographs 68, Cambridge, MA: MIT Press, doi: <10.7551/mitpress/9780262027403.001.0001>.
- Preminger, Omer. 2015. *Upwards and onwards*. Paper presented at the University of Connecticut Linguistics Colloquium, Storrs, CT. URL: <http://omer.lingsite.org/files/Preminger---Upwards-and-onwards.pdf>.
- Preminger, Omer. 2019. What the PCC tells us about ‘abstract’ agreement, head movement, and locality. *Glossa* 4:13. 1–42, doi: <10.5334/gjgl.315>.
- Preminger, Omer & Maria Polinsky. 2015. *Agreement and semantic concord: a spurious unification*. Ms. URL: <https://ling.auf.net/lingbuzz/002363>.
- Reuland, Eric. 2011. *Anaphora and language design*. Cambridge, MA: MIT Press.
- Rezac, Milan. 2008a. Phi-Agree and theta-related case. In *Phi Theory: phi-features across interfaces and modules*, eds. Daniel Harbour, David Adger & Susana Béjar, 83–129. Oxford: Oxford University Press.
- Rezac, Milan. 2008b. The syntax of eccentric agreement: the Person Case Constraint and absolute displacement in Basque. *Natural Language & Linguistic Theory* 26:61–106, doi: <10.1007/s11049-008-9032-6>.
- Richards, Norvin. 1997. *What moves where when in which language?*, Doctoral dissertation, Cambridge, MA: MIT.
- Richards, Norvin. 1998. The Principle of Minimal Compliance. *Linguistic Inquiry* 29:599–629, doi: <10.1162/002438998553897>.
- Richards, Norvin. 2001. *Movement in language: interactions and architecture*. Oxford: Oxford University Press.
- Rivero, Maria Luisa. 1991. Long head movement and negation: Serbo-Croatian vs. Slovak and Czech. *The Linguistic Review* 8:319–351.
- Roberts, Ian. 2004. The c-system in Brythonic Celtic. In *The structure of IP and CP*, ed. Luigi Rizzi, The Cartography of Syntactic Structures 2, 297–328. New York, NY: Oxford University Press.
- Roberts, Ian. 2010. *Agreement and head movement: clitics, incorporation, and defective goals*. Linguistic Inquiry Monographs 59, Cambridge, MA: MIT Press.

- Rooryck, Johan & Guido Vanden Wyngaerd. 2011. *Dissolving binding theory*. Oxford: Oxford University Press, doi: <10.1093/acprof:oso/9780199691326.001.0001>.
- Schafer, Robin. 1994. *Nonfinite predicate initial constructions in Modern Breton*. Doctoral dissertation, Santa Cruz, CA: University of California.
- Sigurðsson, Halldór Ármann & Anders Holmberg. 2008. Icelandic dative intervention: PERSON and NUMBER are separate probes. In *Agreement restrictions*, eds. Roberta D'Alessandro, Susann Fischer & Gunnar Hrafn Hrafnbjargarson, 251–280. Berlin: Mouton de Gruyter.
- Sportiche, Dominique. 1998. *Partitions and atoms of clause structure: subjects, agreement, case and clitics*. London: Routledge.
- Stephens, Janig. 1982. *Word order in Breton*. Doctoral dissertation, London: University College London.
- Suñer, Margarita. 1988. The role of agreement in clitic-doubled constructions. *Natural Language & Linguistic Theory* 6:391–434, doi: <10.1007/BF00133904>.
- Takano, Yuji. 1994. Unbound traces and indeterminacy of derivation. In *Current topics in English and Japanese*, ed. Masaru Nakamura, 229–253. Tokyo: Hituzi Syobo.
- Travis, Lisa. 1984. *Parameters and effects of word order variation*. Doctoral dissertation, Cambridge, MA: MIT.
- Vicente, Luis. 2007. *The syntax of heads and phrases: a study of verb (phrase) fronting*. Doctoral dissertation, Leiden: University of Leiden.
- Vicente, Luis. 2009. An alternative to remnant movement for partial predicate fronting. *Syntax* 12:180–213, doi: <10.1111/j.1467-9612.2009.00125.x>.
- Wilder, Chris & Damir Čavar. 1994. Long head movement? Verb movement and cliticization in Croatian. *Lingua* 93:1–58.
- Zeijlstra, Hedde. 2004. *Sentential negation and negative concord*. Doctoral dissertation, Amsterdam: University of Amsterdam.
- Zeijlstra, Hedde. 2008a. Modal concord. In *Proceedings of the 17th Semantics and Linguistics Theory conference (SALT 17)*, eds. Masayuki Gibson & Tova Friedman, Ithaca, NY: CLC Publications, 317–332.
- Zeijlstra, Hedde. 2008b. *Negative concord is syntactic agreement*. Ms., Amsterdam: University of Amsterdam. URL: <<https://ling.auf.net/lingBuzz/000645>>.

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