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On the Coordinate Structure Constraint and Labeling

Željko Bošković

The Coordinate Structure Constraint (CSC) is still awaiting a principled account. Traditionally, it was assumed to have two parts, one banning extraction of conjuncts and the other out of conjuncts. It has, however, been shown that the two should be divorced, the main argument being that there are languages that are sensitive to only one part of the CSC (Oda 2017). I will focus on (1), illustrated by (2).

- (1) Extraction out of conjuncts is disallowed (CSC).
(2) *Who_i did you see [enemies of t_i] and John?

The CSC is inextricably tied to the across-the-board-movement (ATB) exception: Extraction is possible if it occurs from each conjunct (3). ATB is what makes accounting for the CSC particularly difficult. In typical accounts of islands islandhood is cumulative. Assuming that conjuncts are islands, (3) should be twice as bad (2) since it involves two extractions out of an island, while (2) involves one.

- (3) Who_i did you see [friends of t_i] and [enemies of t_i]?

This paper will propose a deduction of (1) that captures the ATB exception but also allows non-ATB extraction from conjuncts in well-defined contexts, which will be shown to indeed be possible with a variety of constructions, namely left-branch extraction in Serbo-Croatian, *r*-pronouns in Dutch, V-2 movement in German, clitic doubling in Dutch and Romance, quantifier-float in Japanese, article-incorporation in Galician, and object shift in English. Based on these cases the paper will show that the CSC holds only for successive-cyclic movement, as in *Who_i did you see [t_i friends of t_i] and Sue: elements that are base-generated at the edge of a conjunct, or move there independently of successive-cyclic movement, can extract. The paper will also shed light on the nature of the ban on local wh-movement from SpecTP to SpecCP. I will first give the ingredients of the account to be proposed.

1. Phases, labels, and Coordination of Likes

The first ingredient is the phase theory, in particular, the PIC, which forces movement to proceed via phase edges. I also assume that conjuncts are phases, an assumption that will be deduced below.

The second ingredient is the well-known Coordination-of-Likes requirement (CL), which requires conjuncts to be parallel in their categorial status (Chomsky 1957, Williams 1978, Sag et al 1985, Bowers 1993, Beavers and Sag 2004, Chaves 2006, among many others).¹

The last ingredient is Chomsky's (2013) system, which allows unlabeled objects during the derivation. Chomsky proposes an algorithm where when a head and a phrase merge, the head projects (providing the label for the resulting object). When two phrases merge, there are two ways to label: through feature-sharing or traces, traces being ignored for labeling. (4) illustrates the former: when *which book* merges with interrogative CP, they both have the Q-feature; what is projected (determining the label of the resulting object) is the Q-feature. (This is reminiscent of Spec-Head agreement.)

- (4) I wonder [_{CP} which book_i [_C C [John bought t_i]]].

As for phrase-phrase merger without feature-sharing, Chomsky (2013) assumes that successive-

*University of Connecticut, zeljko.boskovic@uconn.edu.

¹The references also explain away a number of reported counterexamples to CL. Sag et al (1985) is an important predecessor of this work since it also relies on CL (see also Takahashi 1994). However, the current analysis predicts extraction from conjuncts to be possible in a number of contexts, none of which are allowed by Sag et al.

cyclic movement does not involve feature-sharing (which follows Bošković 1997, 2002, 2007). There is then no feature-sharing between *that* and the *wh*-phrase which passes through its edge in (5a), hence the embedded clause cannot be labeled when *what* moves to its edge (as indicated by ? in (5b)). When *v* is merged, *what* moves. The element merged with *that*-CP being a trace, it is ignored for labeling, hence ? is labeled as CP after *what* moves. The account is extended to all successive-cyclic movement.

(5) a. What_i do you think [_{CP} t'_i [_C that [he bought t_i]]]? b. v [_{VP} think [_{? what} [_{CP} that [he bought t_i]]]]

2. Deducing the CSC

I will now show that the above mechanisms quite straightforwardly deduce the CSC. Consider (6).

(6) * Who_i did you see [enemies of t_i] and John?

Movement from the conjunct must proceed successive-cyclically through the conjunct edge. This movement, which involves merger of *who* and the conjunct DP, yields an unlabeled object (see (7)), as is always the case with successive-cyclic movement. Importantly, as a result of the movement, the conjuncts differ in their categorial status: the second conjunct is a DP while the first one is ? (it is unlabeled). (7) is then ruled out by CL, which requires conjuncts to be parallel in their categorial status (I assume CL applies when ConjP is formed, hence it's not affected by later movement outside of ConjP).

(7) [_{ConjP} [_{? who_i} [_{DP} enemies of t_i]] and [_{DP} John]]

The crucial ingredient of the account is that successive-cyclic movement changes the category of the element it targets in the labeling framework, which induces a violation of CL in (7).

The phasal/labeling system does not only deduce the CSC, but also captures the ATB exception. Successive-cyclic movement takes place to the edge of both conjuncts in (8), delabeling them (9). Since both conjuncts are ? (unlabeled), CL is not violated ((9) is the point of the derivation when CL applies).

(8) Who_i did you see [friends of t_i] and [enemies of t_i]?

(9) [_{ConjP} [_{? who_i} [_{DP} friends of t_i]] and [_{? who_i} [_{DP} enemies of t_i]]]

The CSC, as well as ATB, thus fall out straightforwardly from the phasal/labeling system. In fact, no additional assumptions were needed above. Movement out of a conjunct must proceed via the conjunct edge. This delabels the conjunct, yielding a CL violation unless movement also takes place out of the other conjunct. In that case both conjuncts are delabeled, so that there is no CL violation.

Recall that in typical accounts of islands (like Chomsky 1986), island violations are cumulative: the more islands are crossed the worse the sentence gets. Treating conjuncts as islands (as a barrier that cannot be adjoined to in Chomsky 1986) then has the effect that ATB (8) should be twice as bad as the CSC violation in (6) since (6) involves one extraction from a conjunct island and (8) involves two. On the other hand, the ATB improvement is easily captured in the phasal/labeling account.

3. Non-ATB exceptions to the CSC

The above account does not just deduce the CSC but predicts that the CSC can be violated in well-defined contexts. Since the account is based on movement from a conjunct delabeling the conjunct, it predicts that such movement will be possible if the moving element is base-generated at the conjunct edge and can otherwise stay there, which indicates that it undergoes feature-sharing at the conjunct edge. Such movement in violation of the CSC is indeed possible. Serbo-Croatian (SC) possessors provide one such case. They have been argued to be base-generated at the edge of the traditional NP (TNP) based on the fact that they can extract and bind out of their TNP (Bošković 2012, Despić 2013), as shown by (10) for the latter.² Importantly, they can be extracted out of a conjunct, as shown by (11).

²They also undergo agreement in Φ -features and case. Since the identity of the phrase where the possessor is located is not important I use the neutral term TNP, which stands for the highest projection in the nominal domain.

Recall Lasnik (1999) argues object shift is optional here. Since the infinitival subject can stay in the Spec of the infinitive, movement to this position must be independent of successive-cyclicity. Both conjuncts are then labeled here, enabling extraction of the infinitival subject in violation of the CSC.

To sum up, above we have seen a number of violations of the CSC (namely, (11), (13), (14), (19)-(20), (21), (23), (24)). They are all captured under the proposed account, which also captures the ATB exception. The account confines the CSC effect to successive-cyclic movement out of conjuncts.

4. Conjuncts as phases

Conjuncts are traditionally assumed to be islands. In the phase system it's natural to assume they are phases, since phases have a potential to induce locality violations. This has an interesting consequence: since each conjunct is an island even if the relevant phrase is otherwise not an island, this means each conjunct should be a phase even when the relevant phrase otherwise would not be a phase. The assumption, which I will show follows from a contextual approach to phases, is motivated by cases like (25). (25) involves coordination of IPs, which is not a phase in Chomsky (2000). In the current system, wh-movement here needs to proceed via the conjunct edge, which means the conjunct needs to be a phase. Successive-cyclic movement to the conjunct edge delabels it, inducing a CL violation.⁶

(25) *I wonder what_i Betsy purchased t_i and Sally advertised it.

Conjunct phasehood (including the case of the coordinated IPs in (25)) actually follows from Bošković's (2014) approach to phases: there is no need to stipulate that conjuncts are phases.

While Chomsky (2000) assumes α is a phase or not regardless of its syntactic context (e.g. CP is always a phase, IP is never a phase), many have argued for contextual approaches where α 's phasal status depends on the context where it occurs (as Bošković 2014 notes, this is in the spirit of *Barriers*, where we cannot determine whether CP is a barrier without knowing the context where it occurs: CP is sometimes a barrier and sometimes not, depending on its structural position). In particular, Bošković (2014) argues that the highest projection in the extended domain of a lexical head and the highest clausal projection function as phases (i.e. the highest phrase in a phasal domain functions as a phase, phasal domains being the domains of lexical heads and the clause). This makes vP (the highest projection in the V-domain) and CP (the highest projection in the clausal domain) phases in $[_{VP}[_{VP}[_{CP}[_{IP}$, as in Chomsky (2000). However, in contrast to Chomsky (2000), if V takes an IP complement here this IP will be a phase as the highest projection in the clausal domain (see also Wurmbrand 2013).

Turning to coordinations, ConjP disrupts domain projection for the clausal phasal domain. CP does not immediately dominate IP in $[_{VP}[_{VP}[_{CP}[_{ConjP}[_{IP}$. ConjP separates CP and IP into separate domains, making IP the highest phrase in its phasal domain, just like when V takes an IP complement. (More generally, merger of (a projection of) the Conj head with a conjunct closes the extended domain of the conjunct in Bošković's 2014 system, making the highest projection of the conjunct a phase.)

The presence of ConjP then affects the phasal status of IP in Bošković's (2014) system, making it a phase (this in fact holds for all conjuncts). The gist of the discussion here is that IP is a phase if it is not immediately dominated by CP, as argued independently in Bošković (2014, 2015, 2016a) and Wurmbrand (2013). Though the cases discussed in those works do not involve coordination, ConjP has the same effect in that the relevant IP is not immediately dominated by CP, which makes it a phase.

5. Subject questions

I now turn to subject extraction in IP&IP coordinations like (26), where an additional issue arises (I use IP neutrally, similar to TNP). (26) seems to involve extraction of a conjunct edge created by obligatory movement (to SpecIP), which should not cause a labeling problem. Why is it then unacceptable?

(26) *I wonder who_i [t_i left] and [Mary disappeared].

⁶Under the natural assumption that A'-Spec is higher than A-Spec (in a KP with both), wh-movement will proceed via the outmost conjunct edge. This may in fact follow independently. Under Bošković's (2016b) approach to the PIC, where only the outmost Spec of a phase is accessible from the outside, *who* must move via the outmost Spec (above *Betsy*) to be accessible outside of the conjunct phase. (There is no issue regarding the possibility of multiple Specs for the relevant IP in (25) given the standard assumption that phase heads in general can have multiple Specs).

the subject will move to the conjunct edge because the conjunct is a phase although otherwise such movement is not necessary, the EPP requirement, which is anyway voided in subject questions, holding for the highest position in split IP (i.e. AgrSP). (33) gives the structure of (30) and (34) of (26).

(33) [_{CP} Who_i [_{AgrSP} [_{ConjP} [_{TP} t_i can leave] and [_{TP} t_i must work harder]]]]?

(34) *I wonder [_{CP} who_i [_{ConjP} [_{AgrSP} t_i [_{TP} left]]] and [_{AgrSP} Mary [_{TP} disappeared]]]].

A contrast noted by Q. Tian, where (35) is worse than (36), can help us pinpoint the culprit for the *who left* effect. The contrast also shows that infinitives have split IP (AgrSP+TP), with the presence of *Peter* in the second conjunct forcing it to be an AgrSP—the first conjunct then also must be an AgrSP.

(35) *Who_i did you believe for a long time now [t_i to be a liar] and [Peter to be trustworthy]?

(36) ?I've believed John_i for a long time now [t_i to be a liar] and [Peter to be trustworthy].

John in (36) undergoes feature-sharing movement to the SpecAgrSP of the infinitive, which results in labeling. This is followed by movement to matrix SpecvP, which conforms to the current account of the CSC. If what is behind the *who left* effect is that subject wh-movement cannot proceed via SpecAgrSP, that derivation is not an option in (35); (35) can then be accounted for on a par with (26)/(34). Since, in contrast to *who* in (34), after moving to SpecAgrSP (of the infinitive) *who* in (35) doesn't move directly to SpecCP, the unacceptability of (35) then indicates that what is responsible for the *who left* effect is that subjects undergoing wh-movement cannot move to SpecAgrSP—the culprit is movement of the wh-subject to SpecAgrSP, not its movement from SpecAgrSP to SpecCP. Extraction from clausal coordination thus enables us to pinpoint the culprit for the *who left* effect, also providing evidence for split IP.

6. Intervention effects

We have seen movement from conjuncts is possible exactly where expected under the proposed account. Thus, SC possessors, which are generated at the TNP edge, can extract (11). However, this is possible only from the first conjunct, as shown by (37), where the possessor extracts from the second conjunct. All the CSC-violating extractions from above are in fact allowed only from the first conjunct.

(37) *Ivanov_i je on [Markovog prijatelja] i [t_i sestru] vidio.
Ivan's_{ACC.FEM.SG} is he Marko's_{ACC.MASC.SG} friend_{ACC.MASC.SG} and sister_{ACC.FEM.SG} seen

(37) cannot be a CSC violation; if the CSC were to ban poss-extraction from conjuncts in SC it would also rule out (11). Given that the first conjunct is higher than the second I suggest (37) involves intervention: the first conjunct causes an intervention effect, blocking movement from the second conjunct.

There is independent evidence for this. It is well-known that traces void intervention effects (Chomsky 1995). Thus, A-movement across the experiencer is disallowed in (38a), an intervention effect involving A-movement across an A-Spec. The effect is voided if the intervener is a trace (38b).

(38) a. *Gianni_i sembra a Maria [t_i essere stanco] b. A Maria_j, Gianni_i sembra t_j [t_i essere stanco].
Gianni seems to Maria to.be ill (Italian)

The argument that (37) involves an intervention effect concerns extraction of conjuncts, which is not banned universally. Thus, Japanese and SC allow it (Stjepanović 2014, Bošković 2017, Oda 2017).

(39) ?Kyoodai-to kanojo-wa [t_i Toodai]-ni akogareteiru.
Kyoto.University-and she-Top Tokyo.University-Dat admire
'She admires Kyoto University and Tokyo University.'
(Japanese, Oda 2017)

(40) ?Knjige_i je Marko [t_i i filmove] kupio.
books is Marko and movies bought
'Marko bought books and movies.'
(SC)

In these languages, the conjunction is a clitic: it encliticizes to the first conjunct in Japanese (note that conjunct movement carries it along) and procliticizes to the second one in SC (it also gets carried along in SC, see (41a)). Oda (2017) and Stjepanović (2014) argue that conjunction cliticization is required for

conjunct extraction based on Bošković (2013), where movement of an island head voids islandhood: ConjP is an island but its islandhood is voided in SC/Japanese due to the movement of the conjunction.

(41) then provides evidence for the intervention analysis of (37). In (41a), the first conjunct is a trace, which enables extraction from the second conjunct. In (41b), it stays in situ, blocking extraction.⁷

- (41) a. Koja serija_i se i čiji_j tebi [_{ConjP} t_i [t_j film]] dopadaju?
 which series self and whose you_{DAT} movie please
 ‘Which series and whose movie are pleasing to you?’
 b. *I čiji_j se tebi [_{ConjP} koja serija [t_j film]] dopadaju? (Stjepanović in press)

(41) parallels (38): turning an intervener into a trace voids intervention. The intervention voiding effect confirms the reason why extraction is disallowed from the second conjunct is the intervention effect.

Given that the first conjunct induces an intervention effect for extraction from the second, why doesn’t the effect arise with ATB, where it seems there is movement from each conjunct, which means movement from the second conjunct crosses the first. There is an account of ATB which easily resolves the issue, namely Nunes (2004). Nunes gives a unified account of parasitic gaps (PG) and ATB where XP involved in a PG/ATB construction is merged within the adjunct/second conjunct, then re-merged in a non-c-commanding position corresponding to the other gap of such constructions, from where it moves. Two chains are then formed headed by moved XP, the lower copy of the chains is deleted in PF.

Then, in (42) *who* is merged in its θ -position in the second conjunct, moving to the edge of the conjunct (which is a phase).⁸ It is then re-merged in its θ -position in the first conjunct, moving to its edge. Movement to the edge of the conjuncts delabels them, so that CL is obeyed.⁹ Crucially, there is no movement from the second conjunct that crosses the first, which resolves the intervention issue.

(42) Who_i did you see [t_i friends of t_i] and [t_i enemies of t_i]?

7. An alternative: Movement out of moved elements

This section explores an alternative analysis based on Chomsky’s (2013) account of coordination, where the conjuncts are generated together. Since this involves a phrase-phrase merger without feature sharing, the first conjunct moves (coordination-internally). Under this account, (2) can be ruled out independently of CL by the ban on movement out of moved elements (the freezing ban) since *who* moves out of a moved element. What is particularly interesting here is that Bošković (2018) gives a labeling account of this ban that allows movement out of moved elements in the same contexts as the above account of the CSC. In particular, based on a number of exceptions to it, Bošković (2018) argues that the freezing ban holds only for successive-cyclic movement out of moved elements, the same restriction that holds for the CSC. Bošković (2018) in fact argues that there is nothing wrong in principle with movement from moved elements, replacing the freezing ban with the generalization in (43).

(43) Phases with non-agreeing Specifiers cannot undergo movement.

Under this approach, the freezing ban problem does not arise when YP moves from moved XP but with the movement of XP itself; i.e., moving XP does not freeze the internal structure of XP for movement–movement of YP to the edge of XP prevents movement of XP. This is why successive-cyclic movement is relevant here. To derive YP_i [_{XP}...t_i...]...t_j, involving movement of YP from moved XP, given the cycle YP must first move to the edge of XP. If this involves successive-cyclic movement, it

⁷Stjepanović treats (41a) on a par with (i), which involves AP movement to SpecPP, followed by procliticization of the P to the adjective. Movement of the adjective then carries the P along (see Bošković 2013). In (41a), the second conjunct moves to lower SpecConjP, followed by conjunction procliticization and further movement.

(i) [U veliku]_i je on ušao [t_i sobu].
 in big is he entered room (SC)

⁸There are islandhood effects within the second conjunct, which show that there must be movement to the edge of this conjunct, before sideward movement. The current analysis may actually explain why this movement, which delabels the second conjunct, takes place: without it, a CL violation would occur.

⁹The copy of *who* at the edge of the second conjunct doesn’t count as a trace (hence is not ignored for labeling) since there is no higher copy that c-commands it (the relevant chain is formed only after movement out of ConjP).

will delabel XP, as discussed above. Bošković (2018), however, argues that unlabeled elements cannot undergo movement (this follows from Chomsky’s 2000 claim that only phases move, given that unlabeled elements are not phases). This is why the freezing ban holds only for successive-cyclic movement, which means it is restricted in the same way as the CSC. To demonstrate the restriction, Bošković gives a number of cases where movement from moved elements is possible, several of which involve the same movements as those discussed above regarding the CSC. Thus, just like SC possessors and Dutch *r*-pronouns can move from conjuncts, they can also move from moved elements, as in (44)-(45).

- (44) Jovanovu_i je on [_{NP} t_i sliku]_j vidio t_j.
 John’s_{ACC.FEM.SG} is he picture_{ACC.FEM.SG} seen
 ‘He saw John’s picture.’ (SC, Bošković 2018)
- (45) Waar_i had jij dan [t_i mee t_j] gedacht dat je de vis t_j zou moeten snijden?
 where had you then with thought that you the fish would must cut
 ‘What did you think you should cut the fish with?’ (Dutch, Barbiers 2002)

The freezing ban and the CSC are thus both restricted to successive-cyclic movement, which can be captured in a unified manner under Chomsky’s (2013) movement account of coordination. I leave teasing apart the CL analysis and the freezing ban analysis for future research, merely noting that it is not clear how the ATB exception to the CSC can be captured under the latter analysis.¹⁰

8. Conclusion

The paper has proposed a deduction of the ban on extraction from conjuncts, which has actually reformulated the ban based on a number of cases where extraction from conjuncts was shown to be allowed. In particular, the CSC was shown to hold only for successive-cyclic movement from conjuncts, as in **Who_i did you see [t_i friends of t_i] and Sue*. Elements which are base-generated at the conjunct edge, or move there independently of successive-cyclic movement, were shown to be extractable. It was also shown that the restriction of the CSC to successive-cyclic movement can be captured in Chomsky’s (2013) system, where successive-cyclic movement changes the category of the element it targets (it delabels it), by the CL requirement, in a way which also captures the ATB exception.

The account of the CSC also shed light on the ban on wh-movement from SpecIP to SpecCP. I have argued for a return to split IP, in the spirit of Pollock (1989), and shown that subjects undergoing wh-movement cannot move to the highest projection in the split IP even when this movement is not immediately followed by movement to SpecCP. If the relevant projection is involved in agreement licensing, as in the original AgrSP/TP split, we can also account for the fact that in many languages subject wh-movement affects agreement. The paper has also argued that conjuncts are phases, which follows from a contextual approach to phases, and provided evidence for Nunes’s account of ATB.

References

- Barbiers, Sjef. 2002. Remnant stranding and the theory of movement. In *Dimensions of movement*, ed. Artemis Alexiadou, Elena Anagnostopoulou, Sjef Barbiers, Hans-Martin Gartner, 47-67. Amsterdam: John Benjamins.
- Beavers, John, and Ivan A. Sag. 2004. Coordinate ellipsis and apparent non-constituent coordination. *Proceedings of the International Conference on Head-Driven Phrase Structure Grammar* 11:48-69.
- Belletti, Adriana. 1990. *Generalized verb movement*. Turin: Rosenberg and Sellier.
- Bobaljik, Jonathan, and Dianne Jonas. 1996. Subject positions and the roles of TP. *Linguistic Inquiry* 27:195-236.
- Boeckx, Cedric. 2003. *Islands and chains*. Amsterdam: John Benjamins.
- Bošković, Željko. 1997. *The syntax of nonfinite complementation: An economy approach*. Cambridge: MIT Press.
- Bošković, Željko. 2001. *On the nature of the syntax-phonology interface*. Amsterdam: Elsevier Science.
- Bošković, Željko. 2002. A-movement and the EPP. *Syntax* 5:167-218.

¹⁰The exceptional cases from section 3 can be captured, the only potential issue being (14), which would involve movement from a moved vP. The issue is that object movement from vPs fronted to SpecCP is disallowed. There should then be a difference between movement from a vP moved to SpecCP (i) and a vP moved ConjP-internally.

- (i) *Was_i denkst du [_{CP} [_{VP} t_i gelezen]_j hat_k [_{IP} keiner t_k t_j]]?
 what think you read has no one
 ‘What do you think no one read?’ (Corver in press)

- Bošković, Željko. 2004. Be careful where you float your quantifiers. *Natural Language and Linguistic Theory* 22:681-742.
- Bošković, Željko. 2007. On the locality and motivation of Move and Agree. *Linguistic Inquiry* 38:589-644.
- Bošković, Željko. 2012. On NPs and clauses. In *Discourse and grammar: From sentence types to lexical categories*, ed. Günther Grewendorf and Thomas Ede Zimmermann, 179-242. Berlin: Mouton de Gruyter.
- Bošković, Željko. 2013. Traces do not head islands: What can PF deletion rescue? In *Deep insights, broad perspectives: Essays in honor of Mamoru Saito*, ed. Yoichi Miyamoto et al, 56-93. Tokyo: Kaitakusha.
- Bošković, Željko. 2014. Now I'm a phase, now I'm not a phase: On the variability of phases with extraction and ellipsis. *Linguistic Inquiry* 45:27-89.
- Bošković, Željko. 2015. From the Complex NP Constraint to everything: On deep extractions across categories. *The Linguistic Review* 32:603-669.
- Bošković, Željko. 2016a. On the timing of labeling: Deducing Comp-trace effects, the Subject Condition, the Adjunct Condition, and tucking in from labeling. *The Linguistic Review* 33:17-66.
- Bošković, Željko. 2016b. Getting really edgy: On the edge of the edge. *Linguistic Inquiry* 47:1-33.
- Bošković, Željko. 2017. On the Coordinate Structure Constraint, islandhood, phases, and rescue by PF-deletion. Ms, University of Connecticut.
- Bošković, Željko. 2018. On movement out of moved elements, labels, and phases. *Linguistic Inquiry* 49:247-282.
- Bowers, John. 1993. The syntax of predication. *Linguistic Inquiry* 24:591-656.
- Chaves, Rui P. 2006. Coordination of unlikes without unlike categories. *Proceedings of the International Conference on Head-Driven Phrase Structure Grammar* 13:102-122.
- Chomsky, Noam. 1957. *Syntactic structures*. The Hague: Mouton.
- Chomsky, Noam. 1986. *Barriers*. Cambridge: MIT Press.
- Chomsky, Noam. 1995. *The minimalist program*. Cambridge: MIT Press.
- Chomsky, Noam. 2000. Minimalist inquiries. In *Step by step: Essays on Minimalist syntax in honor of Howard Lasnik*, ed. Roger Martin, David Michaels, and Juan Uriagereka, 89-155. Cambridge: MIT Press.
- Chomsky, Noam. 2008. On phases. In *Foundational issues in linguistic theory: Essays in honor of Jean-Roger Vergnaud*, ed. Robert Freidin, Carlos Otero, and Maria L. Zubizarreta, 133-166. Cambridge: MIT Press.
- Chomsky, Noam. 2013. Problems of projection. *Lingua* 130:33-49.
- Cinque, Guglielmo. 1999. *Adverbs and functional heads*. Oxford: Oxford University Press.
- Corver, Norbert. in press. Freezing effects. In *Blackwell Companion to Syntax*.
- Craenenbroeck, Jeroen van, and Marjo van Koppen. 2008. Pronominal doubling in Dutch dialects: Big DPs and coordinations. In *Microvariation in syntactic doubling*, ed. Sjeff Barbiers et al, 207-249. Bingley: Emerald.
- Despić, Miloje. 2013. Binding and the structure of NP in Serbo-Croatian. *Linguistic Inquiry* 44:239-270.
- Johnson, Kyle. 2002. Restoring exotic coordinations to normalcy. *Linguistic Inquiry* 33:97-156.
- Kayne, Richard. 1994. *The antisymmetry of syntax*. Cambridge: MIT Press.
- Kayne, Richard. 2002. Pronouns and their antecedents. In *Derivation and explanation in the Minimalist Program*, ed. Samuel David Epstein and T. Daniel Seely, 133-166. Oxford: Blackwell.
- Lasnik, Howard. 1999. *Minimalist analysis*. Oxford: Blackwell.
- McCloskey, James. 2000. Quantifier float and *wh*-movement in an Irish English. *Linguistic Inquiry* 31:57-84.
- Messick, Troy. 2016. Matrix subject questions and the nature of the EPP. Ms., University of Connecticut.
- Mizuguchi, Manabu. 2014. Phases, labeling, and *wh*-movement of the subject. Presented at the 32nd Conference of the English Linguistic Society of Japan, Gakushuin University.
- Nunes, Jairo. 2004. *Linearization of chains and sideward movement*. Cambridge: MIT Press.
- Oda, Hiromune. 2017. Two types of the Coordinate Structure Constraint and rescue by PF deletion. *NELS* 47:343-356
- Pollock, Jean-Yves. 1989. Verb movement, Universal Grammar, and the structure of IP. *Linguistic Inquiry* 20:365-424.
- Rizzi, Luigi. 2016. Labeling, maximality and the head-phrase distinction. *The Linguistic Review* 33:103-127.
- Runić, Jelena. 2014. A new look at clitics, clitic doubling, and argument ellipsis: Evidence from Slavic. Doctoral dissertation, University of Connecticut.
- Sag, Ivan A., Gerald Gazdar, Thomas Wasow, and Steven Weisler. 1985. Coordination and how to distinguish categories. *Natural Language and Linguistic Theory* 3:117-171.
- Stjepanović, Sandra. 2014. Left branch extraction and the Coordinate Structure Constraint. *NELS* 44:157-170.
- Stjepanović, Sandra. in press. Extraction out of Coordinate Structure Conjuncts. *Proceedings of FASL* 26.
- Takahashi, Daiko. 1994. Minimality of movement. Doctoral dissertation, University of Connecticut.
- Uriagereka, Juan. 1988. On government. Doctoral dissertation, University of Connecticut.
- Uriagereka, Juan. 1995. Aspects of the syntax of clitic placement in western Romance. *Linguistic Inquiry* 26:79-123.
- Watanabe, Akira. 1993. AGR-based Case theory and its interaction with the A'-system. Doctoral dissertation, MIT.
- Watanabe, Akira. 2006. Functional projections of nominals in Japanese: Syntax of classifiers. *Natural Language and Linguistic Theory* 24:241-306.
- Williams, Edwin. 1978. Across-the-board rule application. *Linguistic Inquiry* 9:31-43.
- Wurmbrand, Susi. 2013. QR and selection: Covert evidence for phasehood. *NELS* 42:619-632.
- Zwart, Jan-Wouter. 1993. Dutch syntax: A minimalist approach. Doctoral dissertation, University of Groningen.