1

Right Node Raising and the LCA

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1 Constituent sharing in coordination

In (1), a typical ‘right node raising’ (RNR) sentence, the object the book is a constituent shared by the verbs of both conjuncts.

(1) John bought and Mary read the book

(2) [John bought \textit{t}_j \text{ and } [Mary read \textit{t}_j \text{ [the book]}]

(3) [John bought the book] and [Mary read the book]

(4) 

The RNR construction has been variously analysed as (2) \textit{across the board} (ATB) movement of the shared constituent out of the coordination (Right Node Raising: Postal 1974); \textit{ellipsis} (3)—deletion of one constituent under identity with a second (Backward Deletion: Wilder 1997); and (4) \textit{multiple}

In view of arguments (see Wilder 1997) that the shared constituent and corresponding gaps in (1) are inside the conjuncts, I suppose that (2) is wrong. The choice reduces to whether there are two constituents, one deleted, as in (3); or only a single constituent as in (4), in which case the single mother condition must be given up. This paper presents an argument for adopting (4) instead of (3).

Constituent-sharing in coordination includes both ‘forward’ (Gapping, leftward ATB-movement) and ‘backward’ (RNR) dependencies. The directionality of the dependency correlates with a constraint on the placement within conjuncts of ‘gaps’ corresponding to the shared constituent $\alpha$.

(5) a. If $\alpha$ surfaces in the final conjunct (RNR), gap(s) corresponding to $\alpha$ must be at the right edge of their non-final conjuncts.
   b. If $\alpha$ surfaces in or to the left of the initial conjunct (Gapping), $\alpha$-gaps in non-initial conjuncts underly no such edge restriction.

(5a) is illustrated by the contrast in (6) (Oehrle 1991). The direct object in (6a) can stand after the PP in the first VP, i.e., it can undergo Heavy NP Shift as in (7a). Indirect objects resist heavy shift (7b), so the gap in (6b) cannot be in VP-final position to satisfy (5a). The absence of such a linear restriction in ‘forward’ dependencies is illustrated by the possibility for ‘medial’ verb gaps in Gapping sentences like (8).

(6) a. I invited into my house [all the winners] and [congratulated]
   b. *I gave [a present] and [congratulated all the winners]

(7) a. I invited into my house all the winners
   b. *I gave a present all the winners

(8) John likes beer and [Mary wine]

The ellipsis approach must stipulate (5) (see Wilder 1997). This paper shows that under a multiple dominance (MD) approach, (5) can be derived as a direct consequence of a modified version of Kayne’s (1994) *Linear Correspondence Axiom* (LCA), in conjunction with *Trace Deletion*. This allows the Backward Deletion rule, along with its specific stipulated properties (in particular, (5)) to be eliminated. The proposal depends on two further assumptions: (i) syntactic representations are dominance-only trees, with precedence defined for terminals only by the LCA (as in Chomsky 1995);
and (ii) coordination is syntactically asymmetric (the first conjunct asymmetrically c-commands the second, etc.).

If we also accept the proposal made by Johnson (1997), that Gapping is in fact across-the-board verb movement, then the conclusion might be strengthened to include Forward Deletion rules. Then all directional ellipsis rules can be eliminated in favour of a multiple dominance-plus-linearization theory of constituent sharing in coordination.

Once we give up the single mother condition to allow an MD-representation for RNR, then it makes sense to assume that the trace left by ATB movement—e.g. the copy left by ATB-raising of the subject (written twice and marked *) in (9)—also comprises a single multiply dominated constituent, rather than two separate constituents.

(9) Mary [\[VP Mary* bought a book\]] and [VP Mary* read it]

Gapping sentences provide an argument for the need to assume ellipsis, based on word order together with the Coordinate Structure Constraint (CSC). The CSC forbids movement of any constituent out of a conjunct unless it is shared by all conjuncts, so any constituent belonging to one conjunct only must be inside its conjunct. The shared verb likes in (8) is preceded by a non-shared constituent, John, the subject of the first conjunct. Since John must be inside that conjunct, so too must likes. The verb gap in the second conjunct is thus not c-commanded by its antecedent, so is not a trace. Hence the need for a special ellipsis rule (Forward Deletion in Wilder 1997), to account for the verb gap.

Johnson (1997) argues that Gapping involves ATB-movement of V out of &P, accompanied by CSC-violating subject-raising out of the initial conjunct, as in (11).

\[\text{CSC}\]

(10) John likes [\[tSU tV beer\]] and [\[tV wine\]]

Suppose that this is correct, and that it generalizes. Wherever shared α appears to surface in the initial conjunct (as in Gapping), α has in fact ATB-moved out of &P, so that the conjuncts share a trace of α. This would allow us to dispense with Forward Deletion—gaps attributed to Forward Deletion are in fact due to Trace Deletion. It also leaves only one case where a shared constituent α surfaces inside the coordination—RNR, in which case α surfaces inside the final conjunct, with α-gaps in non-final conjuncts restricted to the right edge, as per (5a).
Central to the proposal is the idea that only those MD-trees which can be linearized by LCA are well-formed. The modification of the LCA presented in section 3 is necessary to allow linearization of any MD-trees. At the same time, it derives (11), properties of RNR (the first part of (5)):

(11) If a shared constituent α surfaces inside the coordination, then (i) α surfaces in the final conjunct, and (ii) α-gaps must satisfy the ‘right-edge’ condition (5a).

We can derive (12) (the second part of (5)) by adopting (13):

(12) If α surfaces outside the coordination (ATB-movement), then α-gaps (=ATB-traces) need not satisfy the ‘right-edge’ condition.

(13) Traces need not be linearized (trace deletion renders terminals of trace copies invisible to the LCA, cf. Chomsky 1995).

In this account, (14), in which the shared verb is a single multiply dominated constituent contained within conjoined clauses (proposed i.a. by Goodall 1987), cannot be correct for Gapping. The LCA rejects (14) as un-linearizable, in contrast to (10), where the shared verb is an ATB-trace.

(14) [[John *likes* beer] and [Mary *likes* wine]]

The next section addresses some issues regarding syntactic relations in MD-trees, setting the stage for the account of (5) in terms of linearization.

2 Multiple dominance

How does the multiple dominance view differ from an ellipsis (‘copies-and-deletion’) theory? In a ‘copies’ theory, one has two things instead of one. Thus, something can be done to one copy of α without that thing automatically happening to the other copy of α—deletion, for instance. In an MD-theory, there is only one shared constituent α, which happens to be in two places at once. Nothing can happen to α in one position without that thing automatically happening to α in its other position.

In the present proposal about coordination ellipsis, what causes a gap to appear in the string of one conjunct is not ‘deletion’ of a copy of the antecedent. Rather, what happens is that a single shared constituent simply fails to be positioned at that particular place in the string when the tree is linearized.
The MD-theory of constituent sharing ensures that the shared constituent is treated as a single entity for purposes of linearization.¹

In terms of standard phrase structure theory, this involves relaxing the single mother condition, to allow in trees like (15) that branch ‘upwards’ as well as ‘downwards’.

(15)

The proposal is compatible with derivational (e.g. Merge theory, Chomsky 1995) or representational views of phrase structure, but presupposes that trees encode only dominance (not precedence), as in Chomsky (1995).²

In Merge theory, MD-structures can be generated by allowing a constituent to be merged more than once. Thus, after merging α once with A to form C, α can be merged a second time with B to form D, giving (16).

(16) a. C D b. C D

A derivation converges only if (a) the Numeration is empty, and (b) the output consists of a single syntactic object

1 The intuition is similar to that of Nunes’ (1995) proposal to derive Trace Deletion from the LCA, though Nunes assumes a copy theory of movement.

2 The relations of dominance, immediate dominance and sisterhood obtain as usual. Sisterhood is not transitive: taking sisterhood to be defined as (i), A and α in (15) are sisters, B and α are sisters, but A and B are not sisters.

(i) X is sister of Y iff there is a Z s.t. Z immediately dominates both X and Y
The single mother condition does not follow from the Merge operation. Rather, its effects are achieved through the stipulation that Merge only applies ‘at the root’, i.e. to pre-existing syntactic objects. This is unlike Move, which can merge a constituent $\alpha$ embedded in an object $K$ with that object $K$.\(^3\) To permit (16), we need to relax this condition.

The notion of constituent sharing is essentially multiple dominance—a shared constituent has two mothers, two sisters, and so on. Sharing can be defined as in (18). In (15), $C$ and $D$ share $\alpha$.

(18) $\alpha$ is shared by $X$ and $Y$ iff (i) neither of $X$ and $Y$ dominates the other, and (ii) both $X$ and $Y$ dominate $\alpha$.

Relaxing the single mother condition makes available a distinction between two types of dominance: the standard dominance relation, and a stricter relation excluding shared constituents—full dominance (19):

(19) $X$ fully dominates $\alpha$ iff $X$ dominates $\alpha$ and $X$ does not share $\alpha$.

In (15), $E$ fully dominates $A$, $B$, $C$, $\alpha$, and $D$; $C$ fully dominates $A$; and $D$ fully dominates $B$. Neither $C$ nor $D$ fully dominates $\alpha$, though both dominate $\alpha$. Full dominance plays a role in two places in the present proposal: in the definition of c-command, and in modifying the LCA (section 3).

C-command by $X$ and dominance by $X$ are usually held to be mutually exclusive—cf. the second clause of the traditional definition (20).

(20) $X$ c-commands $Y$ iff (i) $X \neq Y$, (ii) $X$ does not dominate $Y$, (iii) $Y$ does not dominate $X$, and (iv) all categories that dominate $X$ dominate $Y$.

In (15), given (20), $C$ does not c-command $\alpha$. However, the present proposal depends on there being such a c-command relation. I adopt a slightly different view of c-command (21), which treats c-command by $X$ and full dominance by $X$ as mutually exclusive:

(21) $X$ c-commands $Y$ only if $X$ does not fully dominate $Y$.

In (15), given (21), $C$ might c-command $\alpha$ and $B$ (but not $A$), and $D$ might c-command $\alpha$ and $A$ (but not $B$). This can be rationalised in terms of a ‘sister containment’ approach to c-command. In (15), $C$ c-commands $\alpha$ by virtue of $D$, $C$’s sister, dominating $\alpha$.

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\(^3\) Chomsky (1995) distinguishes syntactic objects, whole trees that have not (yet) undergone merger, from terms, whole trees or their subconstituents (one-time syntactic objects that have undergone merger).
To permit specifiers and adjuncts to be linearized by the LCA, I adopt the view that intermediate projections (and lower segments in adjunction structures) do not act as c-commanders. If D in (15) is an intermediate projection, so that E is a projection of D and C is a specifier, then C asymmetrically c-commands D (i.e., C c-commands D, α and B, but D does not c-command anything).

3 The LCA and multiple dominance

Taking precedence to be a relation defined only for the terminals of trees (as in Chomsky’s 1995 reinterpretation of Kayne 1994), we can think of the LCA as an algorithm of PF-component that linearizes the terminals of dominance-only trees, by reading c-command among categories (input), and delivering precedence between terminals (output).

Kayne’s proposal has two parts, a hypothesis about the relation between structure and order (22a) and a hypothesis about how that relation constrains the form of phrase-markers (22b).

(22) a. Precedence among terminals is determined by asymmetric c-command among categories that contain them: if a category X asymmetrically c-commands a category Y, then the terminals of X precede the terminals of Y

b. There is a requirement for a linear ordering of terminals of a tree which determines possible forms of trees via (22a).

Given (22a), asymmetric c-command between two categories maps to precedence between a pair of sets of terminals. The mapping is mediated by the concept of the image of a category (23), such that the set of terminals that is the image of one category, X, precedes the set of terminals in the image of another, Y, which X asymmetrically c-commands.

(23) The image of a category X, d(X), is the unordered set of terminals that α dominates. The image of an ordered pair of categories <X,Y> is the set of ordered pairs of terminals d(X) × d(Y).

Consider (24), assuming K is a projection of D. For terminal categories (lower case), the mapping is trivial—the fact that a asymmetrically c-command b puts a before b, and so on. The pairs boxed in (25), indicating that a, b, and c each precede d, e, and f, are determined by c-command by the complex category A (which c-commands D and all D’s daughters in (24)—a, b, and c are in the image of A, and d, e, and f are in the image of D.
In this way, c-command in K determines a linear ordering of its terminals (25).

Kayne proposes that the (natural) idea that there is a requirement for a linear order of terminals explains constraints on the form of trees. If the c-command relations in a tree determine a linear ordering of its terminals, the tree is admissible; if they do not, then the tree is ill-formed. A key assumption thereby is that every asymmetric c-command pair in a given tree maps to precedence (26). The LCA takes the set A of all asymmetric c-command pairs in the tree as its input. The image of that set d(A) is a set of ordered pairs of terminals, which the axiom itself (27) states must constitute a linear ordering of the terminals of the tree.

For a tree K, the LCA takes the image of the set A of all pairs of categories <X,Y> in K s.t. X asymmetrically c-commands Y.

LCA: d(A) = a linear ordering of the terminals of K.

An ordering over a set T is linear if and only if the conditions in (28) are met, i.e. the ordering is ‘total’ (or ‘connected’) (i), asymmetric (ii), irreflexive (iii) and transitive (iv).

For any x,y,z ∈ T (i) x<y or y<x; (ii) if x<y then not y<x; (iii) not x<x; and (iv) if x<y and y<z, then x<z

The LCA is violated if in the output, for any x,y,z ∈ T, any of the following obtains: (i) neither x<y nor y<x (incomplete ordering); (ii) x<y and y<x (symmetry violation); (iii) x<x (reflexivity violation); or (iv) x<y and y<z but not x<z (transitivity violation).
The present proposal uses the LCA in a similar way, to filter out multiple dominance trees on the grounds that the c-command relations in those trees do not yield a linear ordering of terminals. My claim is that only those multiple dominance trees that do not yield violations of (28) are well-formed. However, this makes it necessary to modify the LCA, which as it stands, cannot linearize any multiple dominance trees.

As soon as we have multiple dominance, we have a situation where some category $\alpha$ is simultaneously dominated by and (asymmetrically) c-commanded by another category A. Consider (29), assuming c-command between / in A and B as reflected in the order on the page.

(29) 

\begin{center}
\begin{tikzpicture}
  \node (A) at (0,0) {A};
  \node (B) at (1,0) {B};
  \node (C) at (0.5,1.5) {C};
  \draw (A) edge (C)
        (B) edge (C)
        (A) edge node[above]{$\ldots \alpha \ldots$} (B)
        (B) edge node[below]{$\ldots \alpha \ldots$} (A);
\end{tikzpicture}
\end{center}

A and B are sisters sharing $\alpha$. A asymmetrically c-commands $\alpha$. The terminals of $\alpha$, included in both $d(A)$ and $d(\alpha)$, inevitably precede themselves when the terminals of A and B are ordered ($\alpha<$\alpha violates the irreflexivity requirement). Thus, mapping any MD-tree to precedence via the standard LCA necessarily leads to reflexivity violations in the output.4

The modification I propose has the effect that the LCA does not yield reflexivity violations in the output when applying to an MD-tree. It is simple, and has no effect on the way the LCA applies to trees containing no shared constituents. We take the image of a category X not to be the set of terminals dominated by X, but only the set of terminals fully dominated by X. In other words, terminals of constituents shared by X and Y are not included in the image of either X or Y.

(30) \[ d(X) = \text{the (unordered) set of terminals fully dominated by X} \]

With this new assumption, consider (31) (again assuming c-command between / in A and B as reflected in the order on the page).

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4 In most cases, the standard LCA also delivers symmetry (and transitivity) violations. If $\alpha$ in (29) contains more than one terminal, say $a$ and $b$, we get $a<b$ and $a>b$. For any terminal $c$ that follows $\alpha$ in A or precedes $\alpha$ in B, we get $\alpha<c$ and $c<\alpha$. But if $\alpha$ is itself a terminal, rightmost in A and leftmost in B, only the irreflexivity requirement is violated ($\alpha<\alpha$).
Since $\alpha$ is shared by A, the terminals of $\alpha$ are not included in the image of A. Then, c-command by A does not cause (terminals of) $\alpha$ to precede anything that A c-commands.

Asymmetric c-command in (31) translates to precedence as shown in (32). C-command inside A (32a) puts $w$ before $\alpha$ and $x$, and $\alpha$ before $x$. C-command inside B (32b) puts $y$ before $\alpha$ and $z$, and $\alpha$ before $z$. C-command by A (32c) puts $w$ and $x$ (but not $\alpha$) before $y$, $\alpha$, and $z$. The output is (33).

(32) a. $w$ c-commands $\alpha$ and $x$, $\alpha$ c-commands $x$: $\{w<\alpha, w<x, \alpha<x\}$
    b. $y$ c-commands $\alpha$ and $z$, $\alpha$ c-commands $z$: $\{y<\alpha, y<z, \alpha<z\}$
    c. A c-commands $y$, $\alpha$, and $z$: $\{w<y, x<y, w<\alpha, x<\alpha, w<z, x<z\}$

(33) $w<x \quad w<y \quad w<\alpha \quad w<z \quad x<y \quad x<\alpha \quad x<z \quad y<\alpha \quad y<z \quad \alpha<x \quad \alpha<z$

Notice first that there is no reflexivity violation in (33): the LCA does not order $\alpha$ before $\alpha$. MD-trees are thus in principle linearizable. Secondly, c-command of $\alpha$ by A puts $w$ and $x$ (the image of A) before $\alpha$. This gives us backwards directionality: any ‘gap’ precedes $\alpha$, and $\alpha$ itself is linearized among the terminals of the second (lowest) conjunct. Thirdly, we have a symmetry violation in (33): $\alpha$ precedes $x$ and $x$ precedes $\alpha$ (there is also a transitivity violation: $\alpha<x$ and $x<y$ but not $\alpha<y$).

The reason for the symmetry violation is that c-command of $x$ by $\alpha$ (inside A) determines that $\alpha$ precedes $x$, while c-command of $\alpha$ by A itself determines that $x$ precedes $\alpha$. Crucially, if there were no $x$ in A such that $\alpha$ c-commanded $x$, then we would not have $\alpha<x$. The symmetry violation would disappear (the transitivity violation also). This gives us the right edge condition for the gap.

Given (30), then, the LCA orders a shared constituent $\alpha$ within the final conjunct, leaving a ‘gap’ in non-final conjuncts where $\alpha$ ‘ought to be’. If $\alpha$ also ‘ought to’ precede any other terminal in a non-final conjunct, then the structure is out (not linearizable).

The next section illustrates how this result applies in coordination.
4 Properties of RNR explained

The proposal made above makes specific and correct predictions with respect to four RNR cases illustrated by (34), involving a coordination containing a shared constituent that is (i) final in both conjuncts (34a), (ii) non-final in both conjuncts (34b), (iii) final in the initial conjunct only (34c), and (iv) final in the final conjunct only (34d):

(34) a. John has bought __ and Mary will read the paper
    b. *John can __ your book and Mary will read the paper
    c. John should fetch __ and give the book to Mary
    d. * John should give __ the book and congratulate that girl

In (35), representing (34a), the shared constituent, OB*, is ‘final’ in both conjuncts. The terminals the, paper are not included in the image of any constituent—in particular, the first conjunct TP1—which does not fully dominate them. So c-command by TP1 does not order the terminals of OB* before anything that TP1 c-commands.

(35)

Asymmetric c-command in (35) translates to precedence as follows. Inside TP1 and inside &, c-command gives exactly the pairs making up (36a) and (36b) respectively. TP1 itself asymmetrically c-commands & and its daughters (including OB*), which puts John, has and bought (but not the or paper) before and, Mary, will, read, the, and paper (36c). Putting all this together gives a linear ordering, in the RNR pattern.

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5 TP1 shares OB* with &, TP2, T2 and VP2 in (35). TP1 is the only category which both shares OB* and asymmetrically c-commands anything.
(34b) is represented by (37), with a shared constituent that is ‘non-final’ in both conjuncts. The shared constituent V* (read) is not included in d(TP1), and so c-command by TP1 does not order read before anything. However, c-command inside TP1 (38a) and c-command by TP1 (38b) yield symmetry violations.

(37)

The shared verb read is ordered both before and after the your and book. The output of the LCA is not a linear ordering. The source of the problem is the fact that the shared constituent c-commands, hence precedes non-shared terminals inside the first conjunct.

This provides an account for a well-known asymmetry concerning ‘verb-gapping’—‘backward V-gapping’ is restricted to OV languages (Ross 1970). There is no ‘backward V-gapping’ in VO-structures, since a shared verb in non-final position in a non-final conjunct, e.g. V* in (36) (cf. also (14) above) violates asymmetry (V*<OB1<V*). If a shared verb c-commands no other terminals in non-final conjuncts, as in OV-structures, no symmetry violation is induced and the structure linearizes in the RNR pattern. A shared verb in a VO-structure can be linearized, if V* raises out of &P (ATB-raising), leaving a trace invisible for the LCA, as in the forward Gapping case discussed above.

The proposal also correctly predicts multiple shared constituents inside conjuncts to be possible, as long as their relative ordering is the same in
both conjuncts and none is ordered before any non-shared terminal in non-final conjuncts. Such a case is provided by ‘RNR’ of the VP-final verbs of both the main clause and the relative clause in the German example (39) (cf. Wesche 1995:55).

(39) [er hat einen Mann, der drei Hunde, und he has a man who three dogs and [sie hat eine Frau, die drei Katzen besitzt,gekannt she has a woman who three cats owns known ‘he knew a man who owns three dogs and she knew a woman who owns three cats’

To avoid the symmetry problem, a shared constituent must be final in all non-final conjuncts. No symmetry violation is induced, however, by a shared constituent that is non-final in the final conjunct. This is illustrated by (34c), which contains conjoined VPs sharing an object, as in (40).

(40)

\[
\begin{array}{c}
&P \\
&\text{VP}_1 & & \text{\&'} \\
&V_1 & \& & \text{\&'} \\
&\text{\&} & & \text{VP}_2 \\
&\text{and} & & \text{VP}_3 \\
&V_2 & & \text{V}_3 \\
&\text{fetch} & & \text{PP} \\
&\text{OB*} & & \text{to Mary} \\
&\text{the book} & & \text{ob*} \\
\end{array}
\]

C-command by first conjunct VP1 in (40) puts fetch before the and book (VP1 c-commands OB*), but does not put the or book before anything in &', since d(VP1) contains only fetch. Hence, applying to (40), the LCA delivers the ordering fetch<and<give<the<book<to<Mary seen in (34c), as desired. OB* c-commands no terminal in VP1, so no symmetry violation arises; the fact that OB* c-commands material (to, Mary) in the final conjunct causes no problem.

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6 The terminals the, paper are not included in d(VP1) since VP1 shares OB* (with &', VP2 and VP3); but they are included in the image of &P and categories containing &P, since OB* is fully dominated by those categories.
The fourth case (34d), involving ‘shared $\alpha$ non-final in the first conjunct, final in the second conjunct’, yields a symmetry violation of the pattern seen in (37)—that and girl both precede and follow the and book.

(34d) * John should give _ the book and congratulate that girl

Most descriptions assume that in RNR sentences, not only the gaps but also the shared constituents are subject to a right edge constraint, i.e. that $\alpha$ itself has to be final in the final conjunct. Thus, (41) (which would mean ‘John met Mary and Mary laughed’) is ill-formed.

(41) * John met _ and Mary laughed

This is not captured by the LCA, correctly so, in view of the well-formedness of (34c). Though the right edge condition is sometimes attenuated for $\alpha$, it holds completely generally for $\alpha$-gaps (cf. (34d)). The ill-formedness of cases like (41) must therefore be attributed to a separate (parallelism?) constraint, which fails to apply in cases like (34c).

References
The term right node raising itself is due to Postal. Postal assumed that the parallel structures are complete clauses below the surface. The shared constituent was then raised rightward out of each conjunct of the coordinate structure and attached as a single constituent to the structure above the level of the conjuncts, hence "right node raising" was occurring in a literal sense. While the term right node raising survives, the actual analysis that Postal proposed is not widely accepted. The square brackets mark the conjuncts of the coordinate structures involved and the material shared by the conjuncts is bolded: a. [Fred prepares] and [Susan eats] the food. b. [Larry has promised] but [Jim refuses] to support reform. c. [Jim can] but [Jerry cannot] make the meeting. theory of Right Node Raising. (Complex NP Constraint).

(6) Josh got angry after he discovered, and Willy quit after finding out about the company's pro-discriminatory policy. (Adjunct island: Abels 2004).

(7) Chris wrote, and Kate reviewed an article. The target constituent is simultaneously dominated by each conjunct (5). McCawley (1982), Wilder (1999). Kayne's Linear Correspondence Axiom (LCA). The target constituent is simultaneously dominated by each conjunct (5). McCawley (1982), Wilder (1999). Kayne's Linear Correspondence Axiom (LCA).

In the last years a lot has been written about the ellipsis phenomenon generally known as Right Node Raising (RNR). Three main approaches have been developed to account for the different properties of this phenomenon, but none of them has managed to do so. In fact, most of the papers have been written about RNR in one unique language, English. But, what do we know about RNR cross-linguistically? How does this phenomenon change from language to language, e.g. from head-initial to head-final languages? In this master thesis, I would like to answer to these and other questions. Not much has been