

Contrasting Contrastive Left-Dislocation Explications

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Of the three logically possible approaches to contrastive left-dislocation (CLD) (base-generation *cum* deep anaphora; movement *cum* surface anaphora; elliptical clausal juxtaposition *cum* resumption), two are represented prominently in the recent literature. Ott's (2014) account treats CLD uniformly in terms of clausal juxtaposition, the first clause being stripped down to its contrastive topic via an ellipsis operation said to be akin to sluicing. He argues that this analysis is superior to Grohmann's (2003) approach, featuring movement within a single prolific domain and late spell-out of a resumptive element. Using data mainly from Hungarian and Dutch, we reveal problems for Ott's biclausal account that undermine its apparent conceptual appeal and compromise its descriptive accuracy. We show that the ellipsis operation required is *sui generis*, that the approach fails to assimilate the crosslinguistic variation attested in the availability of multiple CLD to known cases of parametric variation in the left periphery, and that it undergenerates in several empirical domains, including P-stranding and "floated" arguments. Grohmann's movement-*cum*-surface-anaphora analysis as it stands also cannot handle all these data, but it can be fixed to fit the facts. For Ott's analysis, no patches seem available. Some further empirical properties of CLD appear underivable from either of these approaches. For these, the base-generation-*cum*-deep-anaphora analysis can be considered.

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1 Contrastive Left-Dislocation within the Landscape of Left-Dislocation Phenomena

1.1 The Empirical Landscape

Contrastive left-dislocation (henceforth CLD¹) is a member of a family of left-dislocation phenomena that also includes "ordinary" topicalization (TOP) and hanging-topic left-dislocation (HTLD).

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¹ We will follow the literature in using the term *contrastive left-dislocation* for the construction in focus here. A reviewer claims that CLD does not have to be contrastive, not even implicitly: in the German example in (i), provided

In German and Dutch, the three construction types can usually be most easily told apart by verb-second (V2) and the presence, form, and placement of the element associated with the topic in clause-initial position. The fronted topic in TOP constructions triggers V2 and is not linked to a resumptive element. Both CLD and HTLD constructions feature a resumptive element, but its form and placement usually differ. In CLD, the resumptive is typically a *d*-pronoun, preferably (but not necessarily) placed in the left periphery (i.e., (1b) is more natural than (1b')). In HTLD, it is always a personal pronoun, often (but again not invariably) placed in the middle field (i.e., (1c) is more marked than (1c')); HTLD is fully ungrammatical with weak 'm because the position to the left of the finite verb in V2 constructions accepts no weak nonsubject material). In neither CLD nor HTLD constructions is the fronted topic itself followed by the finite verb. When the resumptive element is fronted into the left periphery, this element triggers V2. (The examples in (1) are from Dutch. English lacks CLD, but it does have the other two left-dislocation constructions.)

- | | | |
|--------|--|------|
| (1) a. | Die man ken ik niet.
that man know I not
'That man, I don't know.' | TOP |
| b. | Die man, <i>die</i> ken ik niet.
that man <i>d</i> -PRON know I not | CLD |
| b'. | Die man, ik ken <i>die</i> niet.
that man I know <i>d</i> -PRON not | |
| c. | Die man, { <i>hem</i> /' <i>m</i> } ken ik niet.
that man him/'m know I not | HTLD |
| c'. | Die man, ik ken { <i>hem</i> /' <i>m</i> } niet.
that man I know him/'m not
'That man, I don't know him/'m.' | |

Apart from the presence and form of the resumptive element, TOP, CLD, and HTLD are also distinct in that only HTLD can fail to exhibit case connectivity. In ordinary topicalization-*cum*-V2 and CLD constructions, the topic must always have the case expected on the basis of its relationship with the predicate in the clause. As Grohmann (2000:161, (24)) points out, HTLD does not preclude case connectivity between the topicalized constituent and the proform to which it is linked; but importantly, HTLD is unique in allowing the topic to surface with default case. The German examples in (2)–(3) illustrate this.

by the reviewer, there is no obvious sense in which *die Anna*, the associate of the resumptive *d*-pronoun *die*, is a contrastive topic. We note, however, that much here depends on how contrast is defined. If one adopts an approach to contrast in the interpretations of contrastive topics in terms of mere delimitation, based on Roothian alternatives (Krifka 2008; see Büring 2016), then perhaps even (iB) may turn out to be contrastive in that sense.

- (i) A: Max mag Anna.
Max likes Anna
B: Ja, *die* Anna, *die* mag jeder.
yes the Anna *d*-PRON likes everyone
'Yes, Anna, everyone likes.'

(2) *Case connectivity*

- a. Diesem Doktoranden wird jeder Linguist helfen. TOP
 this doctoral.student.DAT will every linguist help
- b. Diesem Doktoranden, *dem* wird jeder Linguist helfen. CLD
 this doctoral.student.DAT *d-PRON.DAT* will every linguist help
- b'. Diesem Doktoranden, jeder Linguist wird *dem* helfen.
 this doctoral.student.DAT every linguist will *d-PRON.DAT* help
- c. Diesem Doktoranden, *ihm* wird jeder Linguist helfen. HTLD
 this doctoral.student.DAT he.DAT will every linguist help
- c'. Diesem Doktoranden, jeder Linguist wird *ihm* helfen.
 this doctoral.student.DAT every linguist will he.DAT help
 All: 'This doctoral student, every linguist will help (him).'

(3) *Lack of case connectivity (default nominative)*

- a. *Dieser Doktorand wird jeder Linguist helfen. TOP
 this doctoral.student.NOM will every linguist help
- b. *Dieser Doktorand, *dem* wird jeder Linguist helfen. CLD
 this doctoral.student.NOM *d-PRON.DAT* will every linguist help
- b'. *Dieser Doktorand, jeder Linguist wird *dem* helfen.
 this doctoral.student.NOM every linguist will *d-PRON.DAT* help
- c. Dieser Doktorand, *ihm* wird jeder Linguist helfen. HTLD
 this doctoral.student.NOM he.DAT will every linguist help
- c'. Dieser Doktorand, jeder Linguist wird *ihm* helfen.
 this doctoral.student.NOM every linguist will he.DAT help

The sentences in (2), exhibiting dative case connectivity (*helfen* 'help' is a dative case assigner), are all grammatical (in the case of CLD and HTLD irrespective of where the resumptive element is placed in the clause); but in (3), with default nominative on the topic, only the HTLD examples are well-formed.

Even when the topic shows case connectivity, however, HTLD is generally taken not to allow binding connectivity between a pronominal variable contained in it and a constituent of the clause. In this regard, too, HTLD behaves differently from TOP and CLD, both of which exhibit binding connectivity effects. The German examples in (4) illustrate this for bound variable anaphora. Case connectivity does not guarantee binding connectivity: the HTLD sentences in (4c–c') are grammatical with *seinem* 'his' interpreted referentially but do not support a bound variable reading for *seinem*, despite case connectivity.

(4) *Binding connectivity*

- a. *Seinem_i* ersten Doktoranden wird jeder Linguist_i helfen. TOP
 his first doctoral.student.DAT will every linguist help
 'His first doctoral student, every linguist will help.'
- b. *Seinem_i* ersten Doktoranden, *dem* wird jeder Linguist_i helfen.
 his first doctoral.student.DAT *d-PRON.DAT* will every linguist help

- b'. Seinem_i ersten Doktoranden, jeder Linguist_i wird *dem* CLD
 his first doctoral.student.DAT every linguist will *d*-PRON.DAT
 helfen.
 help
- c. *Seinem_i ersten Doktoranden, *ihm* wird jeder Linguist_i helfen. HTLD
 his first doctoral.student.DAT he.DAT will every linguist help
- c'. *Seinem_i ersten Doktoranden, jeder Linguist_i wird *ihm* helfen.
 his first doctoral.student.DAT every linguist will he.DAT help
 *'His first doctoral student, every linguist will help him.'

Surveying the empirical landscape of left-dislocation, we discover that CLD and HTLD cannot be told apart on the basis of the placement of the resumptive element in the linear string, and that even the form of the resumptive (*d*-pronoun vs. personal pronoun) is not necessarily a foolproof discriminator because CLD can in principle also avail itself of personal pronouns as resumptives (Ott 2014:273n7). But the facts that (a) HTLD but not CLD can fail to show case connectivity and (b) CLD but not HTLD exhibits binding connectivity are two generally reliable diagnostics. In any doubtful case, therefore, we should be able to resort to these tests to settle the matter.

1.2 The Analytical Landscape

For each of the left-dislocation phenomena surveyed in section 1.1, the logical hypothesis space admits three different approaches to account for their properties. These are listed in (5) (where “RES” marks a resumptive correlate, and “Δ” represents an ellipsis site).

- (5) *The hypothesis space*
- External Merge [CP TOPIC_i ... (RES) ... *ec* ≠ *t_i* ...]
 - Internal Merge [CP TOPIC_i ... (RES) ... *ec* = *t_i* ...]
 - Clausal juxtaposition *cum* ellipsis [CP₁ TOPIC Δ] [CP₂ ... (RES) ...]

Inside CP₁, option (5c) could in principle avail itself of either (5a) or (5b); that is, the topic could be assumed to be base-generated in the left periphery of CP₁ (as in (5a)) or to be moved there (as in (5b)), binding a trace inside the ellipsis site Δ. Therefore, the difference between (5c) and (5a–b) does not lie primarily in whether or not movement is exploited for the placement of the topic. Rather, the key difference is that (5c) takes (some) left-dislocation phenomena to involve a biclausal structure, with the topic occupying the left periphery of a clause (CP₁) whose TP is marked for ellipsis, and with the overt TP surfacing in a separate clause (CP₂).

1.3 A Movement Approach to Left-Dislocation: Grohmann 2003

A prominent representative of a movement analysis along the lines of (5b) is that of Grohmann (2003), whose approach to CLD is schematized in (6). (The notation “Top + Vfin” is meant to abstract away from the internal constitution of the Top-head in V2 constructions.)

- (6) a. [_{TopP} XP [Top + Vfin [_{TP} ... XP ...]]]
 b. [_{CP} XP [_{C_θ} [_{TopP} XP ⇒ RP [Top + Vfin [_{TP} ... XP ...]]]]]

In Grohmann's approach, both TOP and CLD involve movement of the topic into the left periphery, as in (6a), but in CLD the topic moves from this topic position into a position even higher in the left periphery (identified by Grohmann as Spec,CP; see (6b)). This movement operation takes place entirely within the confines of what Grohmann calls a "prolific domain" (in particular, the information-structural domain, " Ω "). Because movement of the topic is confined to a single prolific domain, it must be realized in such a way that both the moved copy in Spec,CP and the copy left behind in the topic position are spelled out separately. This is what gives rise to the emergence of the resumptive pronoun ("RP") in the topic position: the copy of XP in Spec,TopP in (6b) must be vocalized (via late insertion) in order for movement within a single domain to be legitimate.² By contrast, in TOP constructions the fronted constituent moves to the topic position and stays there (see (6a)); no need for a resumptive element arises.

One might ask (as did one of our reviewers) what motivates movement of the topic within the single Ω -domain. Contrastiveness seems to us to supply a possible answer: the position in the Ω -domain that the topic reaches first is an "aboutness"-topic position, while the higher one is a contrastive topic position. This would be in line with Frascarelli and Hinterhölzl's (2007) analysis of the German and Italian split-CP field. In their analysis, the locus for contrastive topics (CTopP) is above the position for familiar "aboutness"-topics (FamP); in principle, a topic may move first to FamP to license its [aboutness] property, and then on to CTopP to license its [contrastive] property. (To our knowledge, it is true that a contrastive topic in a CLD construction is always discourse-familiar.) If the topic phrase is derivationally related to two \bar{A} -positions associated with complementary (rather than conflicting) features, the fact that it is spelled out in both positions is understandable. This picture meshes well with the case of sentence-medial resumptives, which are also in a noncontrastive topic position (see the discussion of (18) in section 3.1). It also explains why we cannot have both a sentence-medial and a sentence-initial resumptive: a blend of Dutch (1b) and (1b') (**Die man, die ken ik die niet* 'that man *d*-PRON know I *d*-PRON not') would involve syntactically licensing the same noncontrastive topic property (familiarity or aboutness) twice within the same clause.

The prosody of the Hungarian CLD construction may lend further support to this analysis of the motivation for movement from Spec,TopP to Spec,CP in (6b). While the contour associated with the left-dislocated XP may be a rise (L* H), the contour associated with the resumptive cannot be. If (as seems highly likely) the possibility of being realized with a rising contour is specifically linked to contrastive topic status in Hungarian, then prosody tells us that the dislocated phrase is a contrastive topic, while the resumptive is not: it is an ordinary topic.

Because the topic, in both TOP and CLD constructions, originates inside TP and receives case there, the fact that both TOP and CLD exhibit case connectivity follows straightforwardly from the analysis in (6). Similarly, the presence of a silent copy of the topic-XP inside TP accounts for the binding connectivity effects.

Grohmann's (2003) analysis needs just a small amendment to get HTLD under its purview. While in CLD constructions the left-dislocated topic arrives in Spec,CP via movement, in HTLD

² See the discussion in section 1.4 of the possible existence of epithetic resumptives in CLD and the question this raises for Grohmann's treatment of the resumptive as a surface anaphor.

constructions it can be taken to be externally merged there, as in (5a). Not binding a trace inside the clause, the left-dislocate in HTLD generally exhibits no connectivity effects. Because the topic itself does not perform a role in the argument structure of the predicate of the clause, a proform is called upon to serve this purpose. The proform can optionally undergo topicalization to Spec,TopP.

1.4 A Clausal-Juxtaposition-cum-Ellipsis Approach to CLD: Ott 2014

In an interesting contribution to this journal, Ott (2014) argues in detail for an approach to CLD constructions that treats them as cases of clausal juxtaposition, as in (5c), with the first clause being stripped down to its contrastive topic via ellipsis.³ For Ott's (2014:269) German example in (7a), this analysis is illustrated in (7b), where, as usual, strikethrough marks ellipsis.

- (7) a. Den Peter, den habe ich gesehen.
 the.ACC Peter *d*-PRON.ACC have I seen
 'I saw Peter.'
- b. [_{CP1} [den Peter]_i [~~habe ich _{t_i} gesehen]]] [_{CP2} den_k [habe ich _{t_k} gesehen]]~~

The ellipsis approach handles many of the distinctive properties of CLD very handsomely. For instance, the case connectivity between the left-dislocate and its correlate follows from the fact that the left-dislocate originates in CP1 as the complement of the very same verb that takes the correlate *den* as its complement in CP2. Another interesting expectation that Ott's analysis raises is that the resumptive element should in principle be allowed to be a topic quite different in form from the left-dislocated constituent. Ott (2014:273n7) mentions in this connection that epithets can serve as resumptives in CLD constructions, citing examples from German (see (8)), Dutch, and Icelandic. We could add here that Hungarian also allows epithets to resume a dislocated constituent (see (9a)).

- (8) Den Peter, den Idioten habe ich gestern noch gesehen.
 the.ACC Peter the.ACC idiot have I yesterday still seen
 'Peter, I saw that idiot yesterday.'
- (9) a. Jánost, azt a szerencsétlent kirúgták.
 János.ACC that the unfortunate.one.ACC sacked.3PL
 'János, they sacked the poor guy.'
- b. ?*Jánost, kirúgták azt a szerencsétlent.
 János.ACC sacked.3PL that the unfortunate.one.ACC

For Hungarian, the fact that the resumptive epithet cannot occupy clause-internal position (see (9b)) may confirm that we are dealing with CLD here. A reviewer claims that there is no binding

³ For contrastive *right*-dislocation, the same approach is readily applicable, with ellipsis this time targeting the second clause. See section 6.3 for brief discussion, and Ott and De Vries 2016 for a detailed analysis of contrastive right-dislocation in these terms.

connectivity with an epithetic resumptive in German (whereas established cases of CLD, as we have shown, do display binding connectivity). But we doubt that this is systematic; in both Dutch (10) and Hungarian (11), bound variable connectivity is easy to get.

- (10) *Zijn_i eerstejaarsstudenten, die sukkels wil geen enkele taalkundige_i Barriers*
 his first-year.students those nitwits wants no single linguist *Barriers*
 uitleggen.

explain

‘His first-year students, no linguist wants to explain *Barriers* to those nitwits.’

- (11) *Egymás_i diákjait, a szerencsétleneket mindkét tanár_i rendszeresen*
 each.other students.ACC the unfortunate.ones.ACC both teacher regularly
 megbuktatja.

flunk.3SG

‘Each other’s students, both teachers regularly flunk the poor fellows.’

Left-dislocation constructions with an epithet as the resumptive that admit a CLD derivation pose a potentially serious question for a Grohmann-style movement approach, which treats the resumptive as a surface anaphor. Can an epithet be treated as a late spell-out of the feature bundle left behind in the topic position after the dislocated constituent has vacated this position? We do not consider it impossible to treat the epithets in (8)–(11) as surface anaphors; but there is no received wisdom in the late-insertion literature that would allow us to answer this question with confidence. In Ott’s approach, the existence of CLD with epithetic resumptives is directly expected. This will only plead in favor of clausal juxtaposition, however, if the analysis can limit the extent of the divergence between the topic in CP1 and the resumptive element in CP2. It is reasonable to suspect that there must at least be an interpretive link between the two elements. A hyponymy relation would a priori seem to be able to create such a link—and indeed, *wa*-marked topics in Japanese are famously allowed to be hyperonyms of an associate to their right (which may itself be *wa*-marked as well).

- (12) *Sakana-wa fugu-{ga/wa} umai.*

fish-TOP blowfish-NOM/TOP good

‘As for fish, blowfish is good.’

But hyponymy does not license CLD with a full-nominal ‘resumptive’ in Germanic: Dutch (13a) is sharply deviant; a hanging topic introduced in an *as for*-type phrase must be used instead, as in (13b).⁴

⁴ In Hungarian, a hyponymy relation does not seem impossible (at least for some speakers), even with case connectivity: (i) is acceptable. The fact that the topic in (i) is a bare, article-less noun phrase suggests that it cannot be an ordinary ‘aboutness’ topic; it must be contrastive.

- (i) *Tengeri halat, lazacot már ettem.*
 sea fish.ACC salmon.ACC already ate.1SG
 ‘(lit.) Sea fish, salmon I’ve eaten already.’

But whatever is going on in (i), the construction still seems distinct from CLD, on four counts, suggesting that the subset phrase *lazacot* ‘salmon.ACC’ (i.e., the hyponym) is not a simple counterpart to the resumptive that is found in CLD

- (13) a. *Zeevis, zalm heb ik wel eens gegeten.
 sea.fish salmon have I AFF once eaten
- b. Wat zeevis betreft, zalm heb ik wel eens gegeten.
 what sea.fish concerns salmon have I AFF once eaten
 ‘As far as sea fish is concerned, I’ve eaten salmon.’

We conclude, therefore, that in CLD constructions, hyponymy cannot license the presence of two different though related topics in the left peripheries of Ott’s juxtaposed CPs. This subtracts substantially from the *prima facie* appeal, in light of the epithet facts in (8)–(11), of the clausal-juxtaposition analysis.

Ott does not explicitly raise the question of whether TOP and HTLD could be analyzed along the lines of (5c) as well. The answer, *a priori*, is that they could—with movement of the topic being involved in the case of TOP (ensuring connectivity) but not in HTLD constructions, and with an overt resumptive element surfacing in CP2 in HTLD but not in TOP constructions. It is not obvious what a biclausal approach along the lines of (5c) could buy us for TOP constructions: everything we need to derive should be derivable in a single CP. So we will set (5c) aside as a viable analysis for TOP. But whether Ott’s clausal-juxtaposition-*cum*-ellipsis analysis could handle HTLD is an interesting question, particularly because HTLD shares with CLD what is perhaps Ott’s primary motive for developing a biclausal syntax for the latter: “verb third” word order. We now turn to this matter.

2 Verb Third

Both CLD and HTLD constructions violate the V2 constraint. The finite verb systematically appears in *third* position: the left-dislocated topic is followed by some constituent, which in turn immediately precedes the finite verb. That constituent can be the resumptive element (as in (14a)) or the subject (as in (14b)); it can even be some other major constituent of the clause, as shown in (14c).

constructions. (a) A resumptive *azt* ‘DEM.ACC’ can be added after *tengeri halat* ‘sea fish.ACC’ and/or *lazacot* ‘salmon.ACC’, as shown in (ii) (of which (iia) sounds best, (iib) being slightly more marked, and (iic) the least natural, though still clearly grammatical).

- (ii) a. Tengeri halat, azt lazacot már ettem.
 sea fish.ACC DEM.ACC salmon.ACC already ate.1SG
- b. Tengeri halat, lazacot azt már ettem.
 sea fish.ACC salmon.ACC DEM.ACC already ate.1SG
- c. Tengeri halat, azt lazacot azt már ettem.
 sea fish.ACC DEM.ACC salmon.ACC DEM.ACC already ate.1SG

(b) The subset nominal *lazacot* is also contrastive, unlike the resumptive in CLD. (c) The subset nominal does not have to be interpreted as a topic; it can be interpreted (and accented) as a focus too. If *már* ‘already’ is placed after the verb in (i), the sentence becomes ambiguous: *lazacot* can then be interpreted either as a topic or as a focus. This is different from examples like (46), below, in which the resumptive is a focus. The difference is that in examples like (46), the resumptive can be a focus only if the left-dislocated phrase also functions as a focus (“focus left-dislocation”). (d) Finally, it may also be relevant that this construction is quite restricted in Hungarian, allowing only for a fraction of what Japanese and Chinese allow when it comes to the types of the two nominals, as well as their relation. The nominal in CLD constructions, on the other hand, is rather unrestricted.

- (14)
- | | | | | |
|----|--------------------|--------------------|---|--|
| | P1 | P2 | P3 | |
| a. | Die man, {die/hem} | | zou ik nooit aan Marie voorstellen. | |
| | that man | <i>d</i> -PRON/him | would I never to Marie introduce | |
| b. | Die man, ik | | zou {die/hem} nooit aan Marie voorstellen. | |
| | that man I | | would <i>d</i> -PRON/him never to Marie introduce | |
| c. | Die man, aan Marie | | zou ik {die/hem} nooit voorstellen. | |
| | that man to Marie | would I | <i>d</i> -PRON/him never introduce | |
- All: 'That man, I would never introduce to Marie.'

2.1 Deriving V3 on a Clausal Juxtaposition Approach

Ott capitalizes on the verb-third (V3) problem at several points in his article to motivate the clausal-juxtaposition approach to CLD. His solution for this problem is clausal juxtaposition. Consider (15).

- (15) [_{CP1} die man \overline{FP}], [_{CP2} XP [_{C'} V_{fin} [_{TP} . . .]]]

In CP2 in (15), there is just one constituent to the left of the finite verb; the left-dislocated topic is in an elliptical clause of its own and does not count as the occupant of the initial position in the V2 construction in CP2.⁵

HTLD constructions also exhibit a V3 pattern. So if Ott's biclausal approach to CLD is to be the solution for V3 word order, it is imperative that it carry over to HTLD. If it turned out that the V3 problem for HTLD constructions could or even must be dealt with *without* an appeal to clausal juxtaposition, this would defeat a major portion of Ott's rationale for the clausal-

⁵ An interesting question is whether Ott's analysis opens the door in principle to "verb farther-than-third" patterns in CLD constructions. The TP-ellipsis process involved in the derivation in (15) is structurally similar to sluicing. In a sluicing construction, the identifier of the elliptical TP does not need to be in an adjacent clause; it can be separated by an independent clause in cases such as (i), which consists of a sequence of three clauses, and where TP-ellipsis takes place in the first, under identity with the TP of the last clause. Bearing this in mind, we are led to ask whether the identifier of the elliptical TP in a clausal-juxtaposition structure of the type that Ott takes to underlie CLD could be separated from the ellipsis site by one or more independent clauses. If this is allowed, it should be possible to derive CLD constructions with "verb farther-than-third" word orders. (ii) is an attempt at constructing the relevant kind of example in Dutch. Interestingly, (ii) is acceptable with ellipsis when the material intervening between *hem* and *die* is pronounced with the prosody typical of a parenthetical. For parentheticals, Ott's analysis may thus be a useful tool. But parentheticals of course cannot just occur between a left-dislocate and a resumptive *d*-pronoun. Clausal juxtaposition *cum* ellipsis may very well exist and do good things; but as we argue in this article, it does not seem to be helpful for the analysis of CLD.

- (i) Al weet ik niet meer *wie* (ze hebben vermoord), ik ben er volstrekt zeker van: ze hebben
 though know I not anymore who they have killed I am there totally certain of they have
 iemand vermoord.
 someone killed
 'Though I don't remember who, I am totally convinced: they killed someone.'
- (ii) *Hem* (hebben ze vermoord). Ik ben er volstrekt zeker van: *die* hebben ze vermoord. *Haar*,
 him have they killed I am there totally certain of *d*-PRON have they killed her
die hebben ze beroofd.
d-PRON have they robbed
 'Him, they killed. I am totally convinced: they killed him. Her, they robbed.'

ness), and the finite verb is raised to the head of that projection.⁷ The key difference between CLD and HTLD, on an approach along the lines of (17), lies in whether the topic arrives in Spec,CP via movement (as in Grohmann's analysis for CLD constructions) or is base-generated there (which is what one would want to say for HTLD). The fact that CLD exhibits connectivity effects but HTLD does not can be directly related to the movement vs. base-generation dichotomy.

(17) [_{CP} [TOPIC] [C [_{TopP} XP V_{fin} . . .]]]

For the analysis in (17), solving the V3 problem posed by CLD and HTLD constructions comes down to ensuring that the C-position between the topic and the resumptive must remain silent. Ott rejects a Grohmann-style analysis of CLD precisely because it does not explain why this C must be silent. But it is not tremendously difficult to provide a descriptive perspective on the silence of C in (17) within a wider context. If highest-subject *wh*-questions in English are the result of movement of the subject from Spec,IP to Spec,CP (as is standardly assumed in the literature, even in Chomsky's (1986) discussion of the Vacuous Movement Hypothesis), a generalization covering both *Who left?* vs. **Who did leave?* and the silence of C in (17) can be couched in terms of the contiguity of the extraction and landing sites of movement: whenever what moves to Spec,CP is separated from its lower copy by just the C-head, this head must be silent. This of course is just a descriptive generalization—and one that would have to be tweaked to carry over to HTLD (which involves base-generation of the topic in Spec,CP, in light of the absence of connectivity). But once we establish a link between the silence of C in (17) and the silence of C in highest-subject root *wh*-questions, the fact that CLD constructions exhibit V3 word order does not seem fatal for a Grohmann-style analysis.

If there is indeed at least one position for topics that is not immediately followed by the finite verb in root contexts in the Germanic V2 languages, the V3 problem no longer compels us to embrace an Ott-style clausal-juxtaposition approach to CLD.

3 Resumption and Subordination

In Grohmann's analysis of CLD, the sole purpose of the resumptive element is to salvage the otherwise illegal domain-internal movement of the topic. In this analysis, the surface anaphor is a copy of the left-dislocated constituent, its spell-out being tied directly to the very local movement of the dislocate, within a single prolific domain. Any occurrences of such resumptives in positions that are not local to the dislocate thus stand out as potential problems for the analysis. There are two situations in which such nonlocal resumption could arise, in principle. In the first, we are dealing with a single clause and the resumptive occurs somewhere inside the clause, not in its

⁷ Another possibility for HTLD would be (i), where, as in (5c), the topic is outside the CP that contains the finite verb. Unlike the topic in (5c), however, the topic in (i) is not in an elliptical clause: it is paratactically construed, all by itself, with the CP containing the resumptive pronoun (see Kluck 2011:sec. 7.2 for an argument that paratactic coordination is immune to the law of coordination of likes).

(i) [TOPIC] [_{CP} XP V_{fin} . . .]

left periphery. In the second, we are dealing with biclausal constructions in which the left-dislocate is upstairs and the resumptive is in the left periphery of the embedded clause.

3.1 Root CLD

We have already shown cases of the first type: in the Dutch example (1b') (repeated here as (18)), the *d*-pronominal resumptive does not obviously appear in the Spec,TopP position in (17).

- (18) Die man, ik ken *die* niet. (= (1b'))
 that man I know *d*-PRON not
 'That man, I don't know him.'

But although the resumptive seems to be quite a distance away from the topic, it clearly has scrambled across *niet* 'not'. And since the subject of (18) is itself a topic as well, we could devise an analysis of (18) that is compatible with Grohmann's idea that the resumptive is spelled out for "antilocality" reasons, by placing *ik* and *die* each in the specifier position of its own TopP in the left periphery, and pronouncing the finite verb in the higher of the two Top-heads, as in (19).

- (19) [_{CP} XP=*die* man [_{C₀} [_{TopP1} ik [_{Top+Vfin}=ken [_{TopP2} XP⇒RP [_{Top}
 [_{TP} . . . XP . . .]]]]]]]

Since the copy of XP in Spec,TopP2 is within the same prolific domain as its antecedent, spelling this XP out as a resumptive element is, by the logic of Grohmann's analysis, just as obligatory in (19) as it is in (6b). Linear orders of the type in (18), in which the phrasal material intervening between the topic and the resumptive is itself topical, can thus be accommodated by Grohmann's system.

The trouble with low resumptives becomes more serious, however, when we include sentences of the type in (20) in the discussion.

- (20) a. Zo'n auto, *die* zou zelfs JAN niet kopen.
 such.a car *d*-PRON would even Jan not buy
 b. Zo'n auto, zelfs JAN zou *die* niet kopen.
 such.a car even Jan would *d*-PRON not buy
 Both: 'Such a car, even JAN wouldn't buy.'

In these examples, the subject is a focus (marked by the focus particle *zelfs* 'even' and by focus prosody)—and in (20b), this focal subject linearly intervenes between the left-dislocated topic *zo'n auto* 'such a car' and the resumptive *d*-pronoun *die*. Now we cannot avail ourselves of TopP recursion. We could certainly place the subject of (20b) in a high focus position, and the resumptive in a relatively low topic position. But the facts from a variety of languages whose information-structural left peripheries have been studied in detail (especially Hungarian and Italian) have made it clear that within a single functional domain, FocP is always below TopP (see Puskás 2000, Belletti 2004, Benincà and Poletto 2004, Rizzi 2004, *pace* Rizzi 1997). Though foci can occur

to the left of topics, it is standard in the cartographic literature to take the FocP and TopP in such cases to belong to different structural domains: the FocP occurs outside TP, and the low TopP belongs to the VP's left periphery.

$$(21) [_{CP} \text{ ____ } C [_{TopP} \text{ ____ } Top [_{FocP} \text{ ____ } Foc [_{TP} T (\dots) [_{TopP} \text{ ____ } Top (\dots) [_{VP} V \dots]]]]]]]$$

The structure in (21) could accommodate the linear order of (20b) by placing the left-dislocated topic *zo'n auto* 'such a car' in the specifier position to the left of (silent) C, the focused subject in Spec,FocP, the finite verb in Foc, and the resumptive *d*-pronoun in the lower Spec,TopP. The CP whose specifier is occupied by the left-dislocated topic and the FocP whose specifier is occupied by the focused subject belong to the same functional sequence, and to the same prolific domain. The question for Grohmann's analysis would be whether the TopP where the resumptive is spelled out belongs to this prolific domain as well.

The TopP below T is in a different functional sequence: it belongs to the left periphery of VP, not to that of TP. But this TopP is of the same nature as the functional projection harboring the left-dislocated topic (CP): both are discourse-related projections. As long as membership in a particular prolific domain is based on a projection's nature and not on its position in the clause, we can maintain that CP and the lower TopP in (21) belong to the same prolific domain: the discourse domain (labeled "Ω" by Grohmann) of the root clause.⁸ If movements linking two positions included in the same prolific domain for a particular clause require both members of the chain to be spelled out, even if the positions in question are linearly far apart and do not belong to the same functional sequence,⁹ the obligatory pronunciation of the resumptive in (20b) can be accounted for.

Now, how does Grohmann's approach to CLD fare in cases of *biclausal* sentences in which the left-dislocate appears upstairs and the resumptive is spelled out in the left periphery of the embedded clause? We will explore this question by juxtaposing Ott's and Grohmann's analyses.

⁸ The suggestion in the main text is a refinement of Grohmann's (2003) work, not proposed by Grohmann but fully within the spirit of his approach. It is designed to apply within a single clause, not cross-clausally. Note that assuming the text approach to the makeup of prolific domains will also allow us to simplify the analysis of (18): we will no longer be compelled to treat the subject as occupying a Spec,TopP position in the left periphery; it can simply occupy the structural subject position, Spec,TP, as long as the resumptive is taken to occupy a Spec,TopP position (in the left periphery of the VP).

An alternative to the approach pursued in the main text would be to assume that movement from the sentence-medial Spec,TopP position to Spec,CP must proceed via a clause-medial phase-edge position just outside the lower TopP, possibly Spec,VP (or Spec,AspP), as illustrated in (i). Such an approach features a local movement step from Spec,TopP to the phase-edge position; if these two positions are in the same prolific domain, spell-out of the lower SpecTopP in the form of a resumptive will be required. We will not develop this alternative in any detail here because it is unclear to us at this time whether the lower TopP is indeed local to a clause-medial phase boundary.

$$(i) [_{CP} \text{ ____ } C [_{TopP} \text{ ____ } Top [_{FocP} \text{ ____ } Foc [_{TP} T (\dots) [_{VP} \text{ ____ } v [_{TopP} \text{ ____ } Top (\dots) [_{VP} V \dots]]]]]]]$$

⁹ For Grohmann (2003), questions regarding discontinuous Ω-domains did not arise because he did not countenance the possibility of discourse-related projections between TP and VP.

3.2 *Embedded and Long-Distance CLD*

We begin by constructing an example in which a topicalized element occurs to the left of the subject in an embedded clause. This is much harder in Dutch and German than it is in English—but it can be done, via what has been called “focus scrambling” (Neeleman 1994), as in Dutch constructions of the type in (22). Here the scrambled element is a contrastive topic, just as in CLD constructions.¹⁰

- (22) Ik denk dat *zo'n auto* zelfs JAN niet zou kopen.
 I think that such.a car even Jan not would buy
 ‘I think that such a car even JAN wouldn’t buy.’

The examples in (20) already showed that *zo'n auto* ‘such a car’ can undergo CLD in the presence of a focus. Putting (20) and (22) together, we can now ask (a) whether CLD of *zo'n auto* within the embedded clause to a position to the left of the *d*-pronoun is possible, and (b) whether the topic can be placed in the matrix clause, leaving behind a resumptive *d*-pronoun inside the embedded clause.

The answer to the first question is that with the ordinary verb-final word order of subordinate clauses, the result is ungrammatical, as shown in (23).

- (23) *Ik denk dat *zo'n auto*, *die* zelfs JAN niet zou kopen.
 I think that such.a car *d*-PRON even Jan not would buy

The second question is answered by (24): long-distance left-dislocation of *zo'n auto* is grammatical as long as V3 order obtains in the root clause, as in (24b).¹¹

- (24) a. ??*Zo'n auto* denk ik dat *die* zelfs JAN niet zou kopen.
 such.a car think I that *d*-PRON even Jan not would buy
 b. *Zo'n auto*, ik denk dat *die* zelfs JAN niet zou kopen.
 such.a car I think that *d*-PRON even Jan not would buy

The key contrast is the one between (23) and (24b).

For Ott’s (2014) clausal-juxtaposition-*cum*-ellipsis analysis, accounting for this contrast is quite simple. (23) is underivable, as it would have to involve embedding the juxtaposed CPs

¹⁰ The *focus* part of the term *focus scrambling* thus refers not to the focused nature of the scrambled element but to the fact that the constituent immediately following the scrambled element (which in (22) is the subject) must be a focus.

¹¹ To allay potential concerns about the status of (24b) as a CLD construction (rather than a case of HTLD), we demonstrate in (i) that a pronoun inside the left-dislocated matrix topic can be interpreted as a bound variable linked to a quantified noun phrase in the embedded clause. Since CLD differs from HTLD precisely in that it exhibits binding connectivity, the grammaticality of (ia–b) reliably indicates that we are indeed dealing with long-distance CLD here.

- (i) a. Zijn_i eerste vriendin_i, ik denk dat *die* zelfs een verstokte vrijgezel_i niet gauw zal vergeten.
 his first girlfriend I think that *d*-PRON even a confirmed bachelor not soon will forget
 ‘His first girlfriend, I think that even a confirmed bachelor won’t easily forget.’
 b. Zijn_i babykleertjes_i, ik denk dat *die* zelfs de striktste nudist_i zich liefdevol zal herinneren.
 his baby.clothes I think that *d*-PRON even the strictest nudist REFL lovingly will remember
 ‘His baby clothes, I think that even the strictest nudist will remember lovingly.’

below the complementizer *dat* ‘that’; such ‘‘CP recursion’’ structures are generally impossible with verb-final order.¹² In (24), CP-juxtaposition proceeds in the root clause, with the resumptive *d*-pronoun contained in the second CP, as depicted in (25).

- (25) [_{CP1} [zo’n auto]_i [denk ik dat zelfs Jan _{t_i} niet zou kopen]]
 [_{CP2} ik denk dat die_k zelfs Jan _{t_k} niet zou kopen]

The well-formedness of CP1 is entirely on a par with that of the long-distance topicalization case in (26). The fact that the left-dislocate is followed by the subject of the matrix clause (as in (24b)) rather than by the finite verb (as in (24a)) follows from the fact that CP2 is a subject-initial V2 construction. The placement of the *d*-pronoun to the left of the embedded subject is made possible by focus scrambling.

- (26) Zo’n auto denk ik dat zelfs JAN niet zou kopen.
 such.a car think I that even Jan not would buy
 ‘Such a car, I think even JAN wouldn’t buy.’

¹² It is interesting to note in this connection that (23) can be vastly improved by performing V2 (following the *d*-pronoun) inside the bridge verb complement, as in (i). For (24), by contrast, embedded V2 (eV2) renders both sentences fully ungrammatical (see (ii))—not surprisingly, in light of the fact that extraction from an eV2 clause below a bridge verb is generally impossible in Dutch (**Wat denk je dat zelfs Jan zou niet kopen?* ‘(lit.) what think you that even Jan would not buy’).

- (i) ?Ik denk dat zo’n auto, *die* zou zelfs JAN niet kopen.
 I think that such.a car *d*-PRON would even Jan not buy
 (ii) a. *Zo’n auto denk ik dat *die* zou zelfs JAN niet kopen.
 such.a car think I that *d*-PRON would even Jan not buy
 b. *Zo’n auto, ik denk dat *die* zou zelfs JAN niet kopen.
 such.a car I think that *d*-PRON would even Jan not buy

Ott (2014:sec. 5.4) credits Frey (2004) with the observation that a left-dislocated topic in German can be linked to its resumptive *d*-pronoun across the boundary of an eV2 clause, as in (iii). He argues that his clausal-juxtaposition-*cum*-ellipsis approach provides a simple account of the grammaticality of (iii): in the elliptical CP1, the complement of the verb *glaubt* ‘thinks’ is a verb-final subordinate clause, from which extraction of *seinem Vater* ‘his.DAT father’ proceeds without difficulty; only in the nonelliptical CP2 does *glaubt* combine with an eV2 clause. The structure in (iv) (cf. Ott’s (78)) illustrates.

- (iii) *Seinem_i Vater, Maria glaubt* [_{CP} *jeder_i wird dem Geld leihen*].
 his.DAT father Maria thinks everyone will *d*-PRON.DAT money lend
 ‘Maria thinks that everyone will lend money to his father.’
 (iv) [_{CP1} [*seinem_i Vater*]_k [*glaubt Maria dass jeder_i Geld leihen wird*]] (V-final)
 [_{CP2} *Maria glaubt jeder_i wird dem Geld leihen*] (eV2)

Note, however, that if Ott’s strategy of substituting a V-final clause for an eV2 clause inside the elliptical CP1 were generally available, Dutch (iib) ought to be as good as (24b), from which it differs only with regard to the V2 word order in the subordinate clause.

Ott (2014:298–299n42) himself points out that mixing and matching clauses as in (iv) will not account for all contexts in which long CLD appears to be island-insensitive. Grewendorf (2008) presents cases of CLD featuring the *d*-pronominal resumptive inside a conditional clause. For those, the clausal-juxtaposition analysis cannot produce an island-free environment for fronting of the left-dislocated topic. Ott could capitalize here on the amnestying effect on island violations exerted by ellipsis more generally (as he notes himself). It is likely, however, that no dependency across an island is involved in these cases at all: relevant here is Heck’s (2008:116) discussion of Felix’s (1983) examples of apparent extraction from clause-initial conditionals in Bavarian varieties of German.

For Grohmann's movement approach to CLD, a central question posed by (24b) is where the topic is launched from. Note that (24b) features embedded-clause word order, with the verbs clustered at the end of the string. CLD *within* a subordinate clause is not possible with verb-final order: (23) is ungrammatical. So the embedded clause of (23) cannot underlie that of (24b): we cannot take the topic to be left-dislocated within the embedded clause prior to its left-dislocation in the matrix clause. But a topic position is clearly available to the left of the focused subject of the embedded clause: the resumptive *d*-pronoun is spelled out right there in (24b). So we could in principle launch the left-dislocated constituent from the topic position of the subordinate clause.

Movement of the left-dislocate from the topic position of the lower clause should deliver the pronunciation of a *d*-pronoun in that lower clause.¹³ Under Grohmann's approach, it can do so only if in the course of the derivation of (24b) the left-dislocate undergoes a movement entirely confined to one prolific domain within the embedded clause, prior to being extracted from that clause. On standard assumptions, movement from a finite clause proceeds via the Spec,CP position of that clause, leaving an intermediate copy behind in that specifier position. Movement from Spec,TopP to Spec,CP would certainly be very local. But does it take place within a prolific domain? The answer depends on whether the Spec,CP position in which an intermediate stopover is standardly taken to be made on the way out of an embedded clause counts as belonging to the discourse-related Ω -domain of that clause. If it does, the derivation of (24b) can proceed as in (27), which, by the logic of Grohmann's work, will deliver the obligatory resumptive *d*-pronoun to salvage the movement within a single Ω -domain.¹⁴

(27) [_{DP} zo'n auto] . . . [_{CP} $\overline{\text{DP}}$ [C=dat [_{TopP} $\overline{\text{DP}} \Rightarrow \text{RP} = \text{die}$ [Top [_{TP} . . . $\overline{\text{DP}}$. . .]]]]

While this accounts for the obligatory emergence of the resumptive in (24b), it does not yet explain the contrast between this example and its close counterpart in (24a). This contrast can be understood in light of the fact that the information-structural status of a particular constituent is specified once only in the course of the syntactic derivation. In the derivation in (27), representing (24b), the DP *zo'n auto* 'such a car' is identified as a topic in virtue of its move to the Spec,TopP position of the subordinate clause. Onward movement into the matrix clause must not add information-structural baggage to this DP; so precisely the only position in the matrix clause where *zo'n auto* is welcome to be spelled out is a Spec,CP position that is not given information-structural content, as in (24b). The redundancy of movement of *zo'n auto* from a Spec,TopP

¹³ Nonrealization of the *d*-pronoun turns the contrast in (24a–b) upside down.

- (i) a. Zo'n auto denk ik dat zelfs JAN niet zou kopen. (= (26))
 such.a car think I that even Jan not would buy
 b. *Zo'n auto, ik denk dat zelfs JAN niet zou kopen.
 such.a car I think that even Jan not would buy

¹⁴ Note that in the derivation in (27), the C-head between the copy of *zo'n auto* in the embedded Spec,CP and the resumptive in Spec,TopP is pronounced, as *dat*. In section 2, we noted that Grohmann's approach can capture the V3 problem by assuming that whenever what moves to Spec,CP is separated from its lower copy by just the C-head, this head must be silent. This holds only if what occupies Spec,CP is itself pronounced; in (27), the occupant of the embedded Spec,CP is silent.

position in the embedded clause to a Spec,TopP position in the root clause (which would result in subject–finite verb inversion in the root) could deliver the marginality of (24a), compared to the woefulness of (23). This may reflect well on Grohmann’s analysis of CLD. It is unclear how Ott’s clausal-juxtaposition approach could capture the relative contrast between (23) and (24a): the latter seems radically impossible without resorting to scattered deletion in (25) (preserving *denk ik* in CP1 and eliding *ik denk* in CP2).

To support the idea that prolific-domain-internal movement takes place within the subordinate clause in CLD constructions in which a clause boundary separates the dislocate and the correlate, we turn to Hungarian. First, we need to show that Hungarian has CLD. Example (28) shows this: it features a demonstrative correlate, and connectivity effects for both case and binding, very much as in Germanic. And just like Germanic, Hungarian allows the dislocate and the correlate to be separated by a clause boundary. We see this in (29); here, along with case connectivity, there is also connectivity for definiteness between the left-dislocate (indefinite *rossz diákot* ‘bad students.ACC’) and the predicate of the embedded clause (*vesznek* ‘admit’); see section 5.4 for more discussion.

(28) A legjobb diákját, azt minden tanár szereti.
 the best student.POSS.ACC DEM.ACC every teacher loves.DEF
 ‘His_i best student, every teacher_i loves.’

(29) Rossz diákot úgy hallottam, hogy azt nem vesznek fel.
 bad student.ACC so heard.1SG that DEM.ACC not admit.3PL.INDEF PRT
 ‘I heard that they do not admit bad students.’

The fact that the dislocate and the correlate in (29) are not within the same local domain on the surface can be accommodated within Grohmann’s analysis if in the embedded clause the dislocate moves from TopP to CP (within the same prolific domain), and if it is the (silent) copy of the dislocate in the embedded CP that triggers the PF rule that requires the copy in the embedded TopP to be spelled out. That the dislocate originates within the embedded clause and undergoes syntactic movement from the lower clause into the higher clause is shown by the emergence of island effects of the type in (30a), parallel to what we find under long-distance topicalization (as in (30b)).¹⁵

(30) a. *Jó diákot felmondtam, mert azt nem vettek fel.
 good student.ACC resigned.1SG because DEM.ACC not admitted.3PL PRT
 b. *Jó diákot azt felmondtam, mert nem vettek fel.
 good student.ACC DEM.ACC resigned.1SG because not admitted.3PL PRT
 Both (intended): ‘I resigned because they did not admit any good students.’

¹⁵ Though marginally better than (30b), the CLD construction in (30a) is certainly not grammatical. On island effects in CLD constructions, recall also footnote 12.

That the dislocate is indeed present at some derivational stage in the lower CP (right above the demonstrative in the left periphery of the subordinate clause) in sentences like (29) is also shown by the following pattern in infinitival embedding, where (31b) is the key example:

- (31) a. Legalább két jó diákot azt szeretnék a programba
 at.least two good student.ACC DEM.ACC would.like.1SG.INDEF the program.into
 felvenni.
 PRT.admit.INF
 ‘I would like to admit at least two good students to the program.’
- b. *Legalább két jó diákot szeretnék [azt a programba
 at.least two good student.ACC would.like.1SG.INDEF DEM.ACC the program.into
 felvenni].
 PRT.admit.INF
- (32) A: Mit mondtál a gulyásról?
 what said.2SG the goulash.about
 ‘What did you say about goulash?’
- B: Hogy szeretnék [azt gyakrabban enni].
 that would.like.1SG.INDEF DEM.ACC more.often eat.INF
 ‘That I would like to eat it more often.’
- (33) A: Szeretnél Jánosnak segítséget nyújtani?
 would.like.2SG János.DAT help.ACC provide.INF
 ‘Would you like to give János help?’
- B: Nem, de szeretnék [a feleségének (*annak) tanácsot adni].
 no but would.like.1SG the wife.POSS.DAT DEM.DAT advice.ACC give.INF
- B’: Nem, de a feleségének annak szeretnék tanácsot adni.
 no but the wife.POSS.DAT DEM.DAT would.like.1SG advice.ACC give.INF
 ‘No, but I’d like to give his wife advice.’

Infinitival complement clauses allow in principle for a topic within their bounds—even an anaphoric demonstrative one, as shown in (32). But they do not permit the simultaneous presence of both a dislocate and a correlate in their left periphery. This is demonstrated by (33B). Against this background, the ungrammaticality of (31b) suggests that when the dislocate and its correlate are severed by a clause boundary, the dislocate must topicalize within the lower clause and then move on to the local Spec,CP—which is possible in the finite clause in (29) but not in the infinitival one in (31b) (in light of (32B)), nor in (30a), with an adjunct island.

If all apparent cases of a nonlocal relation between the dislocate and its surface-anaphoric correlate can be accounted for along the lines pursued here, such that the dislocate and the correlate *are* in fact in the same prolific domain at the relevant stage in the derivation (sanctioning the spell-out of the correlate), the ‘antilocality’ approach to surface-anaphoric correlates in CLD constructions, as in Grohmann 2003, will be upheld. For Ott’s (2014) clausal-juxtaposition approach, by contrast, it is not clear how the facts canvassed in this section can all be made to fall

into place. We have already noted the relative contrast between (23) and (24a); the robust contrast between Hungarian (31b) and (31a)/(32B) seems particularly difficult to fit in with Ott’s analysis.

4 Ellipsis?

Ott likens the ellipsis process whereby the clausal chunk following the fronted topic is rendered silent to the ellipsis standardly postulated in the analysis of sluicing and fragment answers. For sluicing and fragment answers, the constituent marked for ellipsis is customarily identified as IP (or TP). Referring to work in progress, Ott (2014:270n2) suggests that ‘‘IP-ellipsis’ is a misnomer and that what undergoes deletion in all relevant cases is in fact the derived sister of the fronted operator’’; he chooses to ‘‘use the noncommittal term *clausal ellipsis* . . . to designate the relevant ellipsis pattern.’’

4.1 Not Like Sluicing

It is by no means easy to perform clausal ellipsis after a fronted topic, however.¹⁶ We will illustrate this on the basis of data from both Dutch and Hungarian, the latter being famously transparent when it comes to the syntax of the left periphery. Consider first the examples in (34) and (35), from Dutch and Hungarian, respectively. Here, clausal ellipsis following the contrastive topic in the second clause is grammatical—thanks to the fact that the topic here contrasts *explicitly* with the topic of the previous clause. The role of explicit contrast is brought out by the contrasts between the (a)- and (b)-examples in (36) and (37). Here, ellipsis after *jou* ‘you’ or *neked* ‘you.DAT’ is impossible. At least one alternative to the contrastive topic must be explicitly provided in the discourse in order for clausal ellipsis to be licensed; in the absence of explicit contrast, the sentence must be pronounced in full, as in the (b)-cases.

- (34) [_{CTop} Mij] heeft de baas opslag gegeven. [_{CTop} Jou]?
 me has the boss raise given you
 ‘The boss gave me a raise. Did he give you one, too?’
- (35) Nekem emelést adott a főnök. [_{CTop} Neked]?
 me.DAT raise.ACC gave the boss you.DAT
 ‘The boss gave me a raise. Did he give you one, too?’

¹⁶ If fronted topics (including contrastive ones) are not operators, then what follows the topic in the structure of CP1 is not the derived sister of a fronted operator—which, by Ott’s own assumptions, should then preclude ellipsis of this constituent. The fronted topic in CP1 in the structure in (5c) is in an \bar{A} -position, certainly; but material in an \bar{A} -position in the left periphery of the clause is not necessarily operator material. As Lasnik and Stowell’s (1991) work on weakest crossover has shown, topicalization in English fails to give rise to weak crossover effects, in contradistinction to unequivocal cases of operator fronting—and this absence of weak crossover effects manifests itself regardless of how the fronted topic is interpreted. Importantly for present purposes, a contrastive reading of the topic (which is brought out by continuing (ib) with something like *Peter, she doesn’t*) supports a coreferential interpretation of *John* and the possessive pronoun just as well as a noncontrastive one.

- (i) a. *Who_i does his_i mother love?
 b. John_i, his_i mother really loves.

- (36) Ik heb gehoord dat de baas wat mensen opslag heeft gegeven.
 I have heard that the boss some people raise has given
 a. *_[CTop] De conciërge?
 the janitor
 b. Heeft hij de conciërge opslag gegeven?
 has he the janitor raise given
 ‘I heard that the boss gave some people a raise. Did he give the janitor a raise?’
- (37) Úgy hallottam, hogy a főnök emelést adott néhány embernek.
 so heard.1SG that the boss raise.ACC gave some people.DAT
 a. *_[CTop] A gondnoknak?
 the janitor.DAT
 b. A gondnoknak emelést adott?
 the janitor.DAT raise.ACC gave
 ‘I heard that the boss gave some people a raise. Did he give the janitor a raise?’

This requirement of explicit contrast imposed on the licensing of clausal ellipsis in topicalization constructions is conspicuously not in effect in CLD constructions. The fronted topic in CLD does not need to be explicitly contrastive: (1b), for instance (repeated as (38)), does not have to be preceded or followed in the discourse by a statement in which *die man* ‘that man’ is contrasted with some other topic. If CLD is to represent the left-dislocate as the topic of an elliptical clause, as in Ott’s analysis, the licensing of ellipsis must be more lenient here than in established cases of clausal ellipsis in contrastive topicalization constructions.

- (38) Die man, *die* ken ik niet. (= (1b))
 that man *d*-PRON know I not
 ‘That man, I don’t know.’

The ellipsis problem is compounded by the fact that in (38) there are *two* topics, each of which, in Ott’s analysis, is placed in the left periphery of its own clause: *die man* ‘that man’ in the elliptical CP1, and *die*, its correlate, in CP2. But although the two topics are presumably in the same structural position in their respective clauses, ellipsis is licensed only after the first. In (39), from Dutch, and (40), from Hungarian, the content of the TP is fully recoverable from speaker A’s statement. But despite its recoverability, and even though eliding TP after the topic is possible in a simple topicalization construction (recall (34) and (35)), ellipsis of TP is not allowed after the correlate in (39B’, B’’) and (40B’, B’’), regardless of whether there is ellipsis after the left-dislocate. The ungrammaticality of the utterances by speakers B’ and B’’ presumably has the same source. Under Ott’s assumptions, that source remains unclear.

- (39) A: [_{CTop} Zij_i zoon], *die* leent iedereen_i geld.
 his son *d*-PRON lends everyone money
 ‘His son, everyone lends money.’
 B: En [_{CP} [_{CTop} zij_i kleinzoon] [~~leent iedereen_i geld~~]]?
 and his grandson
 ‘And his grandson?’

- B': *En [CP₁ [CT_{Top} zijn_i kleinzoon] [leent iedereen_T geld]]
 and his grandson
 [CP₂ [CT_{Top} die] [leent iedereen_T geld]]?
d-PRON
- B'': *En [CP₁ [CT_{Top} zijn_i kleinzoon] [leent iedereen_i geld]]
 and his grandson lends everyone money
 [CP₂ [CT_{Top} die] [leent iedereen_T geld]]?
d-PRON
- (40) A: [T_{Top} A fiát] (azt) megdicséri mindenki.
 the son.POSS.ACC DEM.ACC PRT.praises everyone
 'His son, everyone praises.'
- B: És [CP [CT_{Top} az unokáját] [megdicséri mindenki]]?
 and the grandchild.POSS.ACC
 'And his grandchild?'
- B': *És [CP₁ [CT_{Top} az unokáját] [megdicséri mindenki]]
 and the grandchild.POSS.ACC
 [CP₂ [CT_{Top} azt] [megdicséri mindenki]]?
 DEM.ACC
- B'': *És [CP₁ [CT_{Top} az unokáját] [megdicséri mindenki]]
 and the grandchild.POSS.ACC PRT.praises everyone
 [CP₂ [CT_{Top} azt] [megdicséri mindenki]]?
 DEM.ACC

Contrasts between the distribution of sluicing (the standard case of TP-ellipsis) and contrastive left-dislocation abound. The ungrammaticality of ellipsis in (41B) and (42B) shows that in these embedded contexts (clauses embedded under factive verbs and 'if'-clauses), sluicing is disallowed—both after contrastive topics (as shown in (41B)) and after foci (the more typical case of sluicing; see (42B)). But such embedded clauses do allow CLD, as the examples in (43) (corresponding to (41B) and (42B)) show.¹⁷

- (41) A: Tudom, hogy [T_{Top} Pétert] előléptették-e.
 know.1SG that Péter.ACC PRT.promoted.3PL-Q
 'I know whether they promoted Péter.'
- B: És azt is tudod, hogy [CT_{Top} Marit] *(előléptették-e)?
 and that.ACC also know.2SG that Mari.ACC PRT.promoted.3PL-Q
 'And do you also know whether they promoted Mari?'

¹⁷ Hungarian CLD differs in this regard from Germanic CLD. In general, Hungarian is well-known to be more liberal with regard to topicalization in nonbridge complements than most of the Germanic languages are.

- (42) A: Szeretnéd, ha jól sikerülne valakinek a verseny?
 would.like.2SG if well succeed.COND someone.DAT the contest
 ‘Would you like it if someone did well in the contest?’
 B: Szeretném, ha MARINAK *(sikerülne jól).
 would.like.1SG if Mari.DAT succeed.COND well
 ‘I’d like it if MARI did well.’
- (43) a. És azt is tudod, hogy [CTop Marit] azt előléptették-e?
 and that.ACC also know.2SG that Mari.ACC DEM.ACC PRT.promoted.3PL-Q
 b. Szeretném, ha [CTop Marinak] annak jól sikerülne a verseny.
 would.like.1SG if Mari.DAT DEM.DAT well succeed.COND the contest

The following examples make the same point in the opposite direction. Infinitival complements are a structural domain in which a left-dislocated topic cannot occur (as already shown in (33), repeated as (44)); but sluicing (as in (45)) is fine here.¹⁸

- (44) A: Szeretnél Jánosnak segítséget nyújtani?
 would.like.2SG János.DAT help.ACC provide.INF
 ‘Would you like to give János help?’
 B: Nem, de szeretnék [a feleségének (*annak) tanácsot adni].
 no but would.like.1SG the wife.POSS.DAT DEM.DAT advice.ACC give.INF
 B’: Nem, de a feleségének annak szeretnék tanácsot adni.
 no but the wife.POSS.DAT DEM.DAT would.like.1SG advice.ACC give.INF
 ‘No, but I’d like to give his wife advice.’
- (45) Már sok embertől próbáltam tanácsot kérni, és most megpróbálok
 already many people.from tried.1SG advice.ACC ask.INF and now PRT.try.1SG
 Maritól is.
 Mari.from also
 ‘I have already asked many people for advice, and now I’ll try to ask Mari as well.’

It is interesting to note in this connection that left-dislocation of *foci* is grammatical in embedded infinitivals (and is then on a par with sluicing, as in (45)), as illustrated in (46).

- (46) Szeretnék csak JÁNOSNAK, csak ANNAK segítséget nyújtani.
 would.like.1SG only János.DAT only DEM.DAT help.ACC provide.INF
 ‘I’d like to only give JÁNOS help.’

Problematic for Ott’s approach to CLD, therefore, is that it postulates ellipsis in a context in which ellipsis is ordinarily impossible or restricted in ways that do not match the restrictions

¹⁸ Note that embedded infinitivals do license fronted contrastive topics as long as they are not resumed by a correlate demonstrative, so the fronting of the contrastive topic cannot be the problem: compare (44) with (i).

(i) Elmondtam neki pár dolgot, de megpróbáltam [mindent azért nem árulni el].
 PRT.told.1SG her a.few thing.ACC but PRT.tried.1SG everything.ACC CONTR not give.INF away
 ‘I told her a few things, but I tried not to give away everything.’

imposed on CLD constructions. *Explicit* contrast is normally a necessary condition for clausal ellipsis in contrastive topicalization constructions—but no such condition generally holds for CLD. And even when there is explicit contrast, CLD patterns distinctively differently from contrastive topicalization constructions with sluicing. What is needed to make Ott’s analysis fully operational is some explanation for the fact that contrastive topics that have a correlate in a clause that is juxtaposed to it sanction ellipsis of the TP that follows them under circumstances that are systematically different from the circumstances under which clausal ellipsis after contrastive topics is otherwise licensed. In the absence of such an explanation, the ellipsis approach to CLD becomes *sui generis*.

4.2 *Ellipsis and Multiple Remnants*

Also problematic for an ellipsis approach to left-dislocation is that sluicing and fragment answers (the clausal ellipsis phenomena that, by Ott’s own admission, are most directly akin to what is postulated in (2)) behave very differently from CLD when it comes to the possibility of multiple remnants. Once again, we will illustrate with Dutch and Hungarian data. This time, each language presents a different pattern—but importantly, in both languages CLD is consistently different from fragment answers and sluicing constructions, which are the standard cases of clausal ellipsis in the literature.

4.2.1 *Dutch* Consider first the contrast in Dutch between the sluicing and fragment answer examples in (47) (also grammatical in English, as the prose translations show) and the CLD cases in (48).

- (47) a. Ik weet dat er iemand met iemand aan het vechten was, maar ik weet
 I know that there someone with someone at the fight was but I know
 niet wie met wie.
 not who with whom
 ‘I know that someone was fighting with someone, but I don’t know who with whom.’
- b. A: Weet je wie met wie aan het vechten was?
 know you who with who at the fight was
 ‘Do you know who was fighting with whom?’
 B: Ja, Jan met Peter.
 yes Jan with Peter
 ‘Yes, Jan with Peter.’
- (48) a. *Jan met Peter, die met die was aan het vechten.
 Jan with Peter *d*-PRON with *d*-PRON was at the fight
- b. *Jan met Peter, die was met die aan het vechten.
 Jan with Peter *d*-PRON was with *d*-PRON at the fight

Dutch being a V2 language, (48a) is trivially ungrammatical because, in the clause following the comma, the finite verb comes in third place, following the two fronted correlates of the dislocates. But even when we leave the correlate of the PP-dislocate in situ, as in (48b), the result is ungram-

matical. The deviance of (48b) contrasts markedly with the immaculate status of the bona fide ellipsis constructions in (47), where both the subject and the *met*-PP are successfully preserved under ellipsis. The contrast between (47b) and (48) is particularly striking. An ellipsis approach to CLD as in (5c) could account for this contrast only if it found a way to constrain ellipsis in the first CP of CLD constructions more stringently than in the case of question-answer pairs like (47b). It is entirely unclear how this could be achieved.

4.2.2 *Hungarian* Unlike Dutch, Hungarian does allow multiple CLD—in fact, it has two different ways of making multiple CLD constructions, illustrated in (49).

- (49) a. Marit *azt* Julival *azzal* még nem kevertem össze.
 Mari.ACC DEM.ACC Juli.COMIT DEM.COMIT yet not mixed up
 ‘For Mari, it holds that with Juli, I have never yet confused her.’
- b. Marit Julival, *azt* *azzal* még nem kevertem össze.
 Mari.ACC Juli.COMIT DEM.ACC DEM.COMIT yet not mixed up
 ‘For the particular pair of individuals Mari and Juli, it has never yet been the case that I mistook one for the other.’

The two versions differ with respect to the placement of the demonstrative correlate of the first topic vis-à-vis the second topic. The difference in placement of *azt* goes hand in hand with a difference in interpretation of the sentence, which we have tried to bring out in the English paraphrases.¹⁹ (49a) features two independent left-dislocated topics and concomitantly gives rise to a recursive information structure.

- (50) [TOP1 [COMMENT1=[TOP2 [COMMENT2]]]]

So the sentence cannot mean that among pairs of individuals—say, twins—Mari and Juli are a pair of individuals who I have never confused with each other (although perhaps I have already confused another pair of individuals). In (49b), on the other hand, such a nonrecursive information structure, with a single pair of topics, is precisely what we do get.

Under Ott’s approach, (49b) is not difficult to analyze: *Marit Julival* ‘Mari.ACC Juli.COMIT’ can be treated as a pair of topics in the left periphery of the elliptical CP1, and *azt azzal* ‘DEM.ACC DEM.COMIT’ is the corresponding pair of correlates in the nonelliptical CP2.

- (51) [_{CP1} Marit_i Julival_k [még nem kevertem össze *t_i* *t_k*]] [_{CP2} *azt*_j *azzal*_l [még nem kevertem össze *t_j* *t_l*]]

The question is how the recursive information structure of (49a) can be accounted for, with the left-dislocated topics in different CPs (as they must be, on Ott’s assumptions). Ott’s analysis could treat (49a) in either of two ways. In the first, illustrated in (52a), each of the four constituents

¹⁹ This difference in interpretation corresponds to a difference in the number of rises in the prosodic contour for the sentences. While it is natural to realize (49a) prosodically with one rising contour on each of the left-dislocated phrases, (49b) is produced with only a single rise, realized on the second dislocated phrase.

preceding *még* ‘yet’ is in a CP of its own, with CP1 and CP2 forming one pair of juxtaposed clauses and CP3 and CP4 another; ellipsis targets the IPs of all but the last of the four CPs. In the alternative, schematized in (52b), *Marit* is in an elliptical clause juxtaposed to a second clause featuring *azt* and *Julival* in the topic field and ellipsis following *Julival*, and that second clause in turn is juxtaposed to a third that has *azzal* in its left periphery, followed by the comment *még nem kevertem össze* ‘never yet confused’. Neither of these analyses delivers the information structure that (49a) has (as given in (50)).

- (52) a. [_{PAIR1} [_{CP1} Marit_i [~~még nem kevertem össze t₁ Julival~~]] [_{CP2} azt_j [~~még nem kevertem össze t_j Julival~~]]] [_{PAIR2} [_{CP3} Julival_k [~~még nem kevertem össze Marit t_k~~]] [_{CP4} azzal_l [~~még nem kevertem össze pro_i t_l~~]]]
 b. [_{CP1} Marit_i [~~még nem kevertem össze t₁ Julival~~]] [_{CP2} azt_j Julival_k [~~még nem kevertem össze t_j t_k~~]] [_{CP3} azzal_l [~~még nem kevertem össze pro_i t_l~~]]

There are additional problems as well. For (52a), one concern is that the CP1+CP2 clausal-juxtaposition pair features ellipsis of the TP in both clauses, something that is otherwise impossible, as shown earlier: recall (40B’). And as (40B’) and (40B’’) taken together show, TP-ellipsis following a correlate demonstrative in a CLD construction fails generally. So the fact that *azt* ‘DEM.ACC’ in (52a) is followed by an ellipsis site is doubly problematic for this analysis. What hobbles both (52a) and (52b) is that the elliptical clauses are not (all) identical to one another or to the nonelliptical clause. And the forced postulation of an object-*pro* (coreferential with the topic of CP1 and the correlate pronoun in CP2) in the nonelliptical clause is problematic as well: Hungarian third person object-*pro* is limited to singulars (see Farkas 1987), but CLD constructions of the type in (49a) are grammatical with a plural left-dislocated object, as in (53).

- (53) Az én szüleimet azokat a te szüleiddel azokkal sosem kevertem
 the I parents.ACC DEM.PL.ACC the you parents.COMIT DEM.PL.COMIT never mixed
 össze.
 up
 ‘I have never confused my parents with your parents.’

The contrast between Dutch (48) and Hungarian (49) shows that languages clearly differ with respect to the availability of multiple CLD. We have not investigated this beyond the Dutch/Hungarian contrast, but it seems to us likely that this variation is correlated with the availability of multiple (ordinary) topics: Hungarian allows these; Dutch does not. If indeed multiple CLD turns out crosslinguistically to imply multiple topicalization, Grohmann’s approach allows us to understand this: for his analysis to exclude (48) and rule in (49), one only needs to assume whatever one’s favorite syntactic mechanism is to model single/multiple fronting parameters in general. But Ott’s approach to CLD harbors little hope of capturing such an implicational relation: multiple topicalization is multiple fronting to the left periphery within one clause, but multiple CLD would, in this approach, involve multiple clausal juxtaposition.

The problems with ellipsis we have identified in this section undermine one of the pillars of Ott’s clausal-juxtaposition-*cum*-ellipsis analysis of CLD. Though Ott’s approach may very

well be conceptually attractive, its appeal to clausal ellipsis would have to be fine-tuned very carefully in order for it to successfully model the syntax of CLD—and we doubt that it can be fine-tuned entirely satisfactorily.

5 Clausal Juxtaposition? On the Nature of the Resumptive Element

The other pillar that Ott's analysis rests on is the postulation of clausal juxtaposition. Ott explicitly seeks a parallel between CLD and clausal coordination: the two CPs that together constitute the CLD construction are in a relationship of asyndetic coordination (parataxis). This parallel breaks down in at least two contexts. The lack of parallelism between CLD and coordination reveals in mutually reinforcing ways that the *d*-pronominal resumptive in CLD constructions is a surface anaphor (in the sense of Hankamer and Sag 1976) while its counterpart in coordination constructions is a deep anaphor.

5.1 Modal Readings

Ott (2014:275) states that CLD of their complements disambiguates modals toward a deontic reading in German. We doubt that this is a general fact about CLD of the complement of a modal: in Dutch (54), the epistemic reading (made salient by *haast wel* 'pretty much') is easily available. But in the coordination examples in (55), involving a *d*-pronoun in the second conjunct but no CLD, the epistemic reading is very hard to get. Since the use of *haast wel* gives the modal a salient epistemic reading in the first conjunct, the unavailability of that reading in the second conjunct renders (55a–b) very awkward (regardless of whether the *d*-pronoun is topicalized in the second conjunct, as in (55a) (on a par with (54)), or not).

(54) Verliefd op haar zijn, *dat* moet hij haast wel.
 in.love on her be *d*-PRON must he just AFF
 'He's pretty much got to be in love with her.'

(55) a. ??Jan moet haast wel verliefd op haar zijn, en *dat* moet Piet vast ook.
 Jan must just AFF in.love on her be and *d*-PRON must Piet firm also
 b. ??Jan moet haast wel verliefd op haar zijn, en Piet moet *dat* vast ook.
 Jan must just AFF in.love on her be and Piet must *d*-PRON firm also
 'Jan's pretty much got to be in love with her, and Piet must surely be, too.'

That (55a–b) are awkward is not difficult to understand: *dat* in the second conjunct can only be a deep anaphor (in the sense of Hankamer and Sag 1976), and when a deep anaphor represents the complement of a modal in Dutch, the modal's interpretation is always deontic. Speaker B's responses to A's statement in (56) are absurd since we cannot plausibly give the weather an order or attribute a deontic ability to it.

(56) A: Het weer_i gaat denk ik gauw veranderen.
 the weather goes think I soon change
 'I think the weather is going to change soon.'

B: #Ja, *dat* {moet/kan} het; inderdaad.
 yes that must/can it indeed

The interesting thing is that (54) is not impossible. This is the first of a number of indications that the *d*-pronoun in CLD constructions is a surface anaphor. On Ott’s analysis of CLD, in which the *d*-pronoun and its associate are in different conjuncts, the fact that the *d*-pronoun can be anything other than a deep anaphor is highly surprising.

5.2 *Floating*

Ott (2014:292) claims that floating of argumental material under contrastive left-dislocation is impossible, supporting his case with a German example involving a clausal complement. But Dutch clearly allows argumental material of the fronted verb to be floated in the matrix clause, as in (57).²⁰ Hungarian CLD does, too: the Hungarian equivalent of (57a), given in (57a’), is grammatical as well.²¹

- (57) a. *Lezen, dat zal zij dat boek nooit.*
 read *d*-PRON will she that book never
- a’. *Elolvasni, azt nem fogja a könyvet.*
 PRT.read.INF DEM.ACC not will.3SG the book.ACC
- b. *Gezien, dat heb ik ’m niet.*
 seen *d*-PRON have I him not

²⁰ Example (57e), similar to the German example given by Ott, is not brilliant, probably for prosodic reasons: the floated argument is heavy and must be extraposed, which gives the left-dislocation construction as a whole a prosodic contour that renders it hard to produce without an intonation break before the floated clausal complement. But with nonclausal arguments, which surface in clause-internal position, such floating is unproblematic: all of (57a–d) are fine.

²¹ Hungarian also presents a type of ‘‘doubling’’ in its CLD constructions: verbal modifiers that belong to the contrastively topicalized verb may appear in addition in the clause containing the correlate (as seen in (i))—even though in question-answer pairs, for instance, such association of a verbal modifier with a modal like *kell* ‘must’ in the absence of the lexical verb is entirely impossible, as shown in (ii). Note that in this context, there is no parallelism between CLD and right-dislocation (just as in the case of P-stranding; see footnote 27): (iii) contrasts with (ia).

- (i) a. [Megfelelne neki] *azt meg kell.*
 PRT.suit.INF her DEM.ACC PRT must
- b. [Ráérezni] *azt rá kell.*
 PRT.pick.up.on.INF DEM.ACC PRT must
- (ii) a. A: *Meg kell felelni neki?*
 PRT must suit.INF her
- B: **Azt meg kell.*
 DEM.ACC PRT must
- b. A: *Rá kell érezni?*
 PRT must pick.up.INF
- B: **Azt rá kell.*
 DEM.ACC PRT must
- (iii) **Azt meg kell, megfelelni.*
 DEM.ACC PRT must PRT.suit.INF

- c. Gemogen, *dat* heb ik 'm nooit.
 liked *d-PRON* have I him never
- d. Weggooien, *dat* mag je die boeken niet.
 away.throw *d-PRON* may you those books not
- e. ?Toegeven, *dat* zal 'ie nooit, dat 'ie gelogen heeft.
 admit *d-PRON* will he never that he lied has

As Dutch (58a) and its Hungarian counterpart in (58b) clearly demonstrate, it is entirely impossible to have internal arguments floating around demonstrative pro-predicate *dat/azt* in coordination constructions, which Ott argues throughout his article to be the closest relatives to contrastive left-dislocation constructions.

- (58) a. Jan wilde Piets boeken weggooien en Piet wilde *dat* (*Jans boeken)
 Jan wanted Piet's books away.throw and Piet wanted *d-PRON* Jan's books
 ook.
 also
- b. János ki akarta dobni Péter könyveit, és *azt* akarta Péter is
 János out wanted throw.INF Péter book.POSS.PL.ACC and DEM.ACC wanted Péter too
 (*János könyveit).
 János book.POSS.PL.ACC
 Both: 'John wanted to throw away Peter's books and Peter wanted to do so, too.'

In allowing argument float, CLD is very different not just from coordination but also from both HTLD and right-dislocation (RD): as (59a) and (60a) show, HTLD and RD both resist floating. (The (b)-examples are included to show that *without* argument float these HTLD and RD constructions are fine.)²²

- (59) a. *Lezen, zij zal *het* dat boek nooit (doen).
 read she will it that book never do
- b. Dat boek lezen, zij zal *het* nooit (doen).
 that book read she will it never do
 'Read that book, she never will.'
- (60) a. *Zij zal *het* dat boek nooit doen, lezen.
 she will it that book never do read
- b. Zij zal *het* nooit doen, dat boek lezen.
 she will it never do that book read
 'She will never do it, read that book.'

²² In Dutch, right-dislocation of a verbal constituent requires the use of the dummy verb *doen* 'do' in the main clause; HTLD prefers this but does not strictly demand it when an auxiliary is present. (CLD of verbal material neither requires nor prefers the use of dummy *doen*.) The distribution of *doen* will not be addressed here. Important in the present context is that (59a) and (60a) are unacceptable regardless of whether or not *doen* is supplied.

Here again, the difference between deep and surface anaphors rears its head. When *dat* and *azt* ‘that’ are used as deep anaphors, they do not allow internal arguments to float around them.

(61) Context: Someone is on the verge of throwing away a pile of books.

- a. Dat mag (je) niet!
that may you not
- b. *Dat mag je die niet!
that may you those not
- a'. (Neked) azt nem szabad!
you.DAT that not allowed
- b'. *Azt nem szabad azokat!
that not allowed those

5.3 A Definiteness Mismatch

There is something morphologically peculiar about the demonstrative correlates of indefinite dislocates in Hungarian CLD constructions that suggests once again that these are surface anaphors. In (62a), the inflection on the verb in the clause containing the correlate demonstrative is *indefinite*: *ismerek* rather than *ismerem*. In the absence of an indefinite left-dislocated topic, the demonstrative *azt* always brings about definite inflection on the verb. In the CLD construction in (62b), whose left-dislocated object is definite, we find definite inflection on the verb in the correlate clause. And in the simple example in (62c), the definite inflection is again a straightforward reflection of the demonstrative’s inherent definiteness. So it is precisely in CLD constructions whose contrastive topic is *indefinite* that we see *azt* combine with indefinite inflection. The choice of inflectional form of the verb in the correlate clause is apparently a function of the definiteness not of the correlate demonstrative itself but of its associate (i.e., the topic).²³

²³ The definiteness mismatch in conjugation also obtains with anaphoric *azt* in some other contexts, as for example in (i).

- (i) A: Ismersz tehetséges diákokat?
know.2SG.INDEF talented student.PL.ACC
- B: Azokat ismerek.
DEM.PL.ACC know.1SG.INDEF
- B': *Ismerek azokat.
know.1SG.INDEF DEM.PL.ACC

(iB) involves left-dislocation, with the demonstrative as a surface anaphor and the dislocate unpronounced—the latter much as in topic drop constructions, such as Dutch (iiB) (usable alongside (iiB’), involving CLD). This analysis is confirmed by the fact that *azokat* ‘DEM.PL.ACC’ must be in the left periphery: placing it in postverbal position, as in (iB’), results in ungrammaticality (unlike in cases in which the demonstrative triggers definite inflection: in reply to a question like *Ismered a beírandó jelszavakat?* ‘Do you know the passwords to be entered?’, the answer *Ismerem azokat* ‘know.1SG.DEF DEM.PL.ACC’ is well-formed).

- (ii) A: Mag ik u dit boek aanbieden?
may I you this book offer
- B: Heb ik al gelezen.
have I already read
- B': Dat boek (, dat) heb ik al gelezen.
that book d-PRON have I already read

- (62) a. Tehetséges diákot, azt nem ismerek.
 talented student.ACC DEM.ACC not know.1SG.INDEF
 ‘A talented student, I don’t know.’
- b. Azt a diákot, azt nem ismerem.
 that the student.ACC DEM.ACC not know.1SG.DEF
 ‘That student, I don’t know.’
- c. Azt nem ismerem.
 DEM.ACC not know.1SG.DEF
 ‘That/Him/Her, I don’t know.’

For Ott’s analysis of the CLD construction, this presents a conundrum. In this analysis, the demonstrative correlate is a deep anaphor, just as it is in clausal coordination constructions. But in coordination constructions, the demonstrative behaves differently: in (63), *azt* can assert its definiteness in the familiar way in the form of the verb.²⁴

- (63) Én ismerek egy tehetséges diákot, és azt a kollégáim is
 I know.1SG.INDEF a talented student and DEM.ACC the colleagues.my also
 {ismerik/ismernek}.
 know.3PL.DEF/INDEF
 ‘I know a talented student, and my colleagues do, too.’

Ott’s clausal-juxtaposition-*cum*-ellipsis approach could assign (62a) the structure in (64).

- (64) [_{CP1} tehetséges diákot nem ismerek] [_{CP2} *azt* nem ismerem]

But to get from (64) to the desired surface result in (62a), one would need nothing short of a miracle: the verb of the sluiced TP in CP1 (*ismerek* ‘know’) would need to be preserved and copied over to the right, replacing the verb of CP2. It seems clear that the clausal-juxtaposition-*cum*-ellipsis approach cannot handle (62a).

²⁴ In other contexts in which the Hungarian demonstrative *azt* is anaphoric to a nonspecific indefinite, such as the conditional in (i), it also does not permit indefinite conjugation (in these cases, it behaves like an ordinary anaphoric pronoun).

- (i) Ha (ők) ismernének tehetséges diákot, (akkor) azt (ők) felvennék/*felvennének.
 if they know.COND.3PL.INDEF talented student.ACC then DEM.ACC they PRT.admit.COND.3PL.DEF/*INDEF

Note that (63) actually offers the language user a choice of verb inflections. The choice of definite or indefinite inflection has interpretive consequences: with definite *ismerik* we have strict identity, while with indefinite *ismernek* we have a sloppy identity reading. If the example is constructed in such a way that the strict identity reading is unavailable or highly implausible, the indefinite conjugation emerges as the only well-formed option.

- (ii) Nem ismerek (egy) tehetséges diákot (sem), és azt a kollégáim sem
 not know.1SG.INDEF a talented student.ACC neither and DEM.ACC the colleagues.my neither
 ismernek/*ismerik.
 know.3PL.INDEF/*DEF

5.4 Back to Grohmann 2003

The facts reviewed above are understandable if (a) the left-dislocated topic really is a constituent of the correlate clause at some level of analysis, and (b) the demonstrative proform in CLD constructions is a *surface* anaphor—an element that is not part of the numeration of the clause in which the correlate is spelled out but instead a piece of morphophonological matter that makes its first appearance in the PF component, after vocabulary insertion. If (a) and (b) are both met, what we get in the underlying representation of CLD constructions is effectively the same structure as that underlying topicalization constructions whose topic is moved from a clause-internal position into the left periphery.

Grohmann's analysis of CLD directly embodies the treatment of the demonstrative correlate as a surface anaphor. On his approach, the difference between CLD and ordinary topicalization (TOP) lies in the fact that in CLD but not in TOP constructions, the topic moves from the topic position into a higher position in the left periphery. Floating of arguments, as in (65a), is then on a par with what has long been known to be possible in VP-topicalization constructions (see Den Besten and Webelhuth's (1987, 1990) discussion of remnant topicalization); see (65b).

- (65) a. Gelezen, *dat* heb ik dat boek niet.
 read *d-PRON* have I that book not
 b. Gelezen heb ik dat boek niet.
 read have I that book not

And the facts in section 5.3 fall out because the morphosyntax derivation and its continuation into LF do not have a demonstrative proform in them at all.

6 P-Stranding

One property of CLD that stands out as potentially problematic for a movement analysis is P-stranding. In the present section, we will show that P-stranding actually poses problems for both of the major approaches to CLD represented by (5b) (instantiated by Grohmann's proposal) and (5c) (Ott's analysis), but that while (5b) stands a decent chance of overcoming this hurdle, the ellipsis approach has no way out for CLD—although it actually makes exactly the right predictions for *right*-dislocation.

6.1 The P-Stranding Generalization

Ott (2014:sec. 4.2) states that the ellipsis-based approach to CLD correctly predicts that Merchant's (2001) P-stranding generalization, reproduced in (66), holds also for CLD.

- (66) A language *L* will allow preposition stranding under sluicing if and only if *L* allows preposition stranding under regular *wh*-movement.

But while apparently obeyed by CLD in several other Germanic languages (Ott gives examples from German, Icelandic, Norwegian, and Swedish), the P-stranding generalization is not obeyed

by Dutch CLD: (67a) is perfectly grammatical even though, in Ott's ellipsis approach, P-stranding movement would be involved in the derivation of the first CP (see (67b)).

- (67) a. Peter, *daar* wil ik niet mee praten.
 Peter *d*-PRON_[+R] want I not with talk
 'I don't want to talk to Peter.'
 b. [_{CP1} [Peter]_i [~~wil ik niet met/mee *t*_i praten~~]] [_{CP2} *daar*_k wil ik niet mee *t*_k praten]

Ott (2014:286n29) is aware of this, and downplays the problem with a two-pronged approach: (a) he points out that P-stranding in Dutch, while generally poor with anything other than Van Riemsdijk's (1978) R-pronouns (like *daar* 'there' in (67a)), is relatively good with non-R material in topicalization contexts; and (b) he notes that because proper names do not inflect for case in Dutch, *Peter* could, for all we know, be a default nominative, which would make (67a) a case of HTLD, not CLD.

With respect to the first point, we certainly agree that the ordinary topicalization variant of (67a), given in (68a), is relatively acceptable. But this misses the point: (67a) is not just relatively acceptable, it is perfect. So CP1 in (67b), the Ott-style derivation of (67a), still behaves markedly differently from a case of ordinary topicalization of a proper name with P-stranding. The plot thickens when we substitute a pronoun for the proper name in (68a), as in (68b): while topicalization of a proper name with P-stranding is relatively good, pronouns do not allow this at all. This makes a derivation of (68c) qua CLD along the lines of (67b) problematic: after all, the nonelliptical version of CP1 for (68c) is ungrammatical (cf. (68b)). Moreover, in (68c), the only option is the explicitly case-marked form *hem*; the (default) nominative *hij* is impossible. This casts doubt on an alternative analysis of (68c) in terms of HTLD: (68d), an unmistakable case of HTLD (with the associate in situ), is fine with a nominative topic pronoun.²⁵

- (68) a. (?)Peter wil ik niet mee praten.
 Peter want I not with talk
 b. *Hem wil ik niet mee praten.
 him want I not with talk
 c. {Hem/*Hij}, *daar* wil ik niet mee praten.
 him/he there want I not with talk
 d. Hij, ik wil niet met hem praten.
 he I want not with him talk

For Grohmann's movement analysis of CLD, deriving (67a) is not strictly speaking impossible, but doing so will require a PF-based approach to the distribution of R-pronouns: *Peter* can

²⁵ More generally, trying to identify (67a) as a case of HTLD amounts to an evasion of the problem—one that could seriously undermine one of Ott's strongest motives for presenting a clausal-juxtaposition-*cum*-ellipsis approach to CLD: his account of the V3 problem. We discussed this in section 2.1.

extract from PP in syntax as long as, at PF (the earliest point at which the surface anaphor *daar* emerges), the immediate antecedent of the PP-internal trace is an R-pronoun. One could herald as an achievement of a surface-anaphor analysis of CLD the fact that it forces such a PF-centric account of R-extraction—an account that would fit in well with a late-lexical-insertion approach.²⁶

6.2 R-Words as Ellipsis Remnants

In CLD constructions, R-words can serve as contrastive topics in P-stranding contexts, as shown in (69).

- (69) Daar, daar zit het waarschijnlijk niet in; hier in misschien wel.
 there there sits it probably not in here in perhaps AFF
 ‘It probably isn’t in there; maybe it’s in here.’

For a Grohmann-style movement-*cum*-surface-anaphora approach to CLD, the grammaticality of (69) is unremarkable. On an Ott-style analysis, by contrast, (69) presents a major conundrum.

Under Ott’s approach, the derivation of (69) would be represented as in (70), with the R-word *daar* as an ellipsis remnant in a P-stranding environment.

- (70) [_{CP1} [daar]_i [~~zit het waarschijnlijk niet in t_i]~~] [_{CP2} daar_k zit het waarschijnlijk niet in t_k]

But in well-established TP-ellipsis contexts, it is surprisingly difficult to preserve R-words as remnants when the elliptical constituent contains a stranded P; see (71) and (72).

²⁶ More recalcitrant, for both Grohmann’s and Ott’s approaches, is the Hungarian CLD example in (ia), where *Bill Gateshez* ‘to Bill Gates’ would have to subextract from *Bill Gateshez képest* ‘in comparison to Bill Gates’, stranding the postposition, which is otherwise completely impossible—not just under regular \bar{A} -movement (see (ia)) but also under sluicing (see (ic)). We hasten to add, however, that P-stranding under CLD is by no means unrestricted in Hungarian: it works with postpositions like *képest*, which themselves take case-marked complements; but postpositions like *előtt* ‘before’, which take a bare, caseless complement, cannot strand even in CLD constructions (see (ii)). This restriction may have morphosyntactic roots: uncased nominal complements of P cannot be spelled out unless P is locally spelled out as well. See Dékány 2009 for relevant discussion.

- (i) a. Bill Gateshez [_{PP} *ahhoz képest*] mindenki szegény.
 Bill Gates.to DEM.to in.comparison everyone poor
 ‘Bill Gates, in comparison to him everyone is poor.’
 b. Bill Gateshez (képest) mindenki szegény (*képest).
 Bill Gates.to in.comparison everyone poor in.comparison
 ‘In comparison to Bill Gates, everyone is poor.’
 c. János azt mondta, hogy Bill Gates valakihez képest szegény, de nem emlékszem, hogy
 János it said that Bill Gates someone.to in.comparison poor but not remember.1sg that
 kihez *(képest).
 who.to in.comparison
 ‘János said that Bill Gates is poor in comparison to someone, but I don’t remember who.’
- (ii) *A háború [_{PP} az előtt] minden más volt.
 the war DEM before everything different was
 ‘The war, before that everything was different.’

- (71) a. Het moet ergens zijn, maar ik weet niet waar het is.
 it must somewhere be but I know not where it is
 ‘It must be somewhere but I don’t know where.’
- b. *Het moet ergens in zitten, maar ik weet niet waar het in zit.
 it must somewhere in sit but I know not where it in sits
- c. Het moet ergens in zitten, maar ik weet niet waar in het zit.
 it must somewhere in sit but I know not where in it sits
 ‘It must be in something but I don’t know (in) what.’
- (72) a. A: Het moet ergens in zitten.
 it must somewhere in sit
 ‘It must be in something.’
 B: Ja, daar *(in). / Ja, maar waar *(in)?
 yes there in yes but where in
 ‘Yes, in that.’ / ‘Yes, but in what?’
- b. A: Waar zit het in?
 where sits it in
 ‘What is it in?’
 B: Daar *(in).
 there in
 ‘In that.’

Locative *waar* is a legitimate remnant of sluicing in sentences of the type in (71a); but when the R-word strands a preposition in the elliptical clause, as in (71b) and B’s utterances in (72), the result is sharply deviant. To make these ellipsis cases grammatical, the preposition must be pied-piped and thereby spared under clausal ellipsis. The contrast between (71b) and (71c) (for which the ellipsis literature to date has not found an explanation; see Van Craenenbroeck 2013 for discussion) is all the more striking because when no ellipsis takes place, P-stranding is preferred to pied-piping: the nonelliptical version of (71b) is *better* than that of (71c).

On Ott’s approach to CLD, the left-dislocate in (69) is the R-word remnant of an elliptical clause that contains a stranded preposition, as in (70). This structure is the same as that of the ungrammatical sluicing construction in (71b) and of the P-less versions of B’s utterances in (72). The fact that (69) is good while (71b) and P-less (72) are not is entirely unexpected on an Ott-style approach to CLD.

6.3 P-Stranding: Left- vs. Right-Dislocation

As Ott (2014:283n25) suggests in passing and as Ott and De Vries (2016) argue explicitly, the clausal-juxtaposition-*cum*-ellipsis analysis can be applied to *right*-dislocation (RD): for a sentence like (73a), the right-dislocated element can be analyzed as the remnant of clausal ellipsis in a clause juxtaposed (this time on the right-hand side) to the clause containing the correlate pronoun, as shown in (73b).

- (73) a. Ik mag hem niet, Peter.
 I like him not Peter
 ‘I don’t like him, Peter.’
 b. [_{CP1} ik mag hem niet] [_{CP2} [Peter]_i] [~~mag ik niet t_i~~]

Ott and De Vries point out that RD observes the P-stranding generalization in many languages. Indeed, in Dutch, RD robustly reveals the kinds of restrictions that well-established ellipsis cases impose on P-stranding in the language: (74a) (cf. (67a)) and (74b) (cf. (69)) are both ungrammatical without the preposition repeated in front of the right-dislocated constituent.

- (74) a. Ik wil niet met hem praten, *(met) Peter.
 I want not with him talk with Peter
 ‘I don’t want to talk to him, Peter.’
 b. Het zit er waarschijnlijk niet in, daar *(in).
 it sits there probably not in there in
 ‘It probably isn’t in there.’

In this respect, RD in Dutch is robustly different from both CLD and HTLD: as shown earlier in this section, neither CLD nor HTLD resists a P-less constituent in sentence-initial position in the presence of a P-dependent correlate.²⁷

The sharp unacceptability of the P-less versions of (74a–b) and the consistency with which other languages obey the P-stranding generalization in their RD constructions is a strong selling point for a clausal-juxtaposition-*cum*-ellipsis approach to RD, such as that of Ott and De Vries. This analysis ties RD together with several other constructions involving forward ellipsis (with the ellipsis site following the antecedent), including sluicing and Den Dikken, Meinunger, and Wilder’s (2000) Type A specificational pseudoclefts.²⁸

- (75) a. He was eating something but I don’t know what ~~he was eating~~.
 b. What nobody was eating was ~~nobody was eating~~ any pasta.
 (76) a. I don’t know what ~~he was eating~~, but he was eating something.
 b. *~~Nobody was eating~~ any pasta was what nobody was eating.

²⁷ In Hungarian as well, RD is very different from CLD in this regard: stranding *képest* ‘in comparison’, while fine under CLD (recall (ia) in footnote 26), is ungrammatical.

(i) Hozzá képest mindenki szegény, Bill Gateshez *(képest).
 to.him in.comparison everyone poor Bill Gates.to in.comparison

²⁸ Den Dikken, Meinunger, and Wilder (2000) argue that specificational pseudoclefts such as *What nobody ate was any of the pasta*, with an NPI as the postcopular focus, must involve a syntax in which the NPI is licensed within an elliptical clause. They identify a wide range of restrictions on NPIs as foci of specificational pseudoclefts that follow from the clausal ellipsis approach.

Some forward ellipsis cases can be reversed (i.e., turned into backward ellipsis constructions): (76a) is grammatical alongside (75a). But not all of them can. While (76b) may be acceptable without ellipsis (as a copular amalgam sentence; see O’Neill 2015 for in-depth discussion of these kinds of sentences), eliding *Nobody was eating* makes it entirely impossible.

The contrast between (75b) and (76b) is by no means specific to English: as far as we are aware, in all languages that allow negative-polarity-item (NPI) connectivity in specificational pseudoclefts, this is subject to a strict word-order restriction. Backward ellipsis of clausal material²⁹ thus seems more restricted than forward ellipsis of such material—especially so if the constituent spared by ellipsis is not [+wh]. Since in CLD constructions the left-dislocated constituent is [–wh], a backward clausal-ellipsis approach to CLD would seem difficult to maintain in light of the problems encountered with backward clausal ellipsis with [–wh] remnants elsewhere.

For RD, this discussion has no adverse consequences for an Ott-style analysis because it involves forward ellipsis. But for CLD it casts significant doubt on the feasibility of an ellipsis approach. Since RD and CLD (as well as HTLD) also behave sharply differently with respect to the effects of the P-stranding generalization, this raises the suspicion that CLD presumably is not optimally analyzed in terms of clausal ellipsis.

7 Concluding Remarks

7.1 *The Hypothesis Space Revisited*

At this point, let us take stock. We started in section 1 by laying out the hypothesis space (repeated below) for the syntax of CLD and closely related phenomena. Throughout this article, we have looked at two detailed analyses of CLD—Grohmann’s (2003) movement-*cum*-surface-anaphora analysis along the lines of (5b), and the clausal-juxtaposition-*cum*-ellipsis approach put forth by Ott (2014), representing (5c). We have shown that clausal juxtaposition, while quite plausible as an approach to *right*-dislocation, faces a variety of challenges, which the movement-*cum*-surface-anaphora analysis has little or no trouble with. Are there any empirical or conceptual considerations that would lead us to conclude that (5c) is necessary, as a member of the spectrum of analyses for CLD?

(5) *The hypothesis space*

- | | |
|--|---|
| a. External Merge | [_{CP} TOPIC _i . . . (RES) . . . <i>ec</i> ≠ <i>t_i</i> . . .] |
| b. Internal Merge | [_{CP} TOPIC _i . . . (RES) . . . <i>ec</i> = <i>t_i</i> . . .] |
| c. Clausal juxtaposition <i>cum</i> ellipsis | [_{CP1} TOPIC Δ] [_{CP2} . . . (RES) . . .] |

²⁹ In Wilder’s (1997) approach to ellipsis of the type in (75b) and (76b), contiguous strings are marked for ellipsis all the way down to the focus, regardless of whether they correspond to syntactic constituents or not. Since these strings in (75b) and (76b) include the structural subject and the finite verb, T must minimally be contained in the elliptical sequence, which is sufficient to make these examples qualify as instances of clausal ellipsis. Alternatively, one could reanalyze (75b) and (76b) as cases of full TP-ellipsis, in which case *any pasta* will need to be placed in a position outside TP. This raises questions concerning the licensing of the NPI—questions we do not go into here for reasons of space.

7.2 *A Reassessment of Ott's Approach to CLD*

Empirically, the answer to the previous question seems to us to be negative. For clausal juxtaposition, we have been unable to find explicit and incontrovertible evidence in CLD. The V3 problem, which Ott advances prominently as an argument for it, turns out upon closer inspection not to be a major obstacle for (5b): it is possible, at least on a descriptive level, to account for the silence of the C-head between the left-dislocate and the demonstrative correlate by capitalizing on the contiguity of the two referentially linked constituents. The account of the silence of C seems principled enough, which suggests to us that the fact that CLD constructions exhibit V3 word order is not a decisive empirical argument for clausal juxtaposition as an ingredient of the syntax of CLD. As for the ellipsis operation that (5c) would need to resort to, we have shown that it would have properties that make it (and the analysis employing it) *sui generis*.

Conceptually, (5c) is eminently sensible as an approach to dislocation phenomena. There is no doubt that clausal juxtaposition (analyzable as asyndetic coordination) and clausal ellipsis exist. The general building blocks of Ott's analysis of CLD are so uncontroversial that it would seem impossible to radically block a derivation of at least some dislocation constructions along Ott's lines. And indeed, clausal juxtaposition *cum* ellipsis may work for *right*-dislocation. But although clausal ellipsis indubitably exists, it has become clear that it is not available precisely in the context in which Ott's analysis of CLD needs it to be: after contrastive but not necessarily *explicitly* contrastive topics. The circumstances under which clausal ellipsis would have to be sanctioned in (5c) seem to be systematically different from the circumstances under which clausal ellipsis after contrastive topics is otherwise licensed.

Nothing in the data seems to unequivocally recommend the approach in (5c). What (5c) does well can also be handled by (5b); the movement-*cum*-surface-anaphora approach manages to handle important facts that (5c) cannot deal with, and it does not make the kinds of incorrect predictions that (5c) gives rise to.

7.3 *External Merge and Connectivity*

What is left to discuss is whether the syntax of CLD constructions needs to avail itself in any way of (5a), an analysis in which the topic is base-generated in the left periphery, linked to a deep anaphor lower in the structure. An analysis along these lines is the gold standard for HTLD. It accounts naturally for the absence in this construction of connectivity for morphological features and binding dependencies. These connectivity effects are commonly taken to define the distinction between CLD and HTLD: whenever we find obligatory connectivity for morphology and binding, HTLD cannot be involved. In our view, it remains an open question whether any and all left-dislocation constructions that fail to exhibit morphological connectivity are necessarily *not* cases of CLD, and must instead involve HTLD. We will present one brief case study in closing, to illustrate why we think it will be good to keep an open mind: the (lack of) morphological connectivity in CLD constructions involving a left-dislocated verb phrase.

Referring to Danish facts brought to light by Mikkelsen (2011) (which we will not repeat here for reasons of space), Ott (2014:sec. 4.3) claims that the morphology of a contrastively left-

dislocated VP must show connectivity with the selector of the correlate proform: when the correlate is selected by an auxiliary of the perfect, the verb heading the dislocated VP must have past-participial morphology. But it would be false to claim, and therefore wrong to try to derive, a general morphological connectivity constraint on left-dislocated VPs. In Dutch cases of fronting of the complement of verbs like *proberen* ‘try’, which normally select only *te*-infinitives, the infinitival marker *te* can be dropped, as in (77b) (Zwart 1993:263; for some speakers, the first author of this article included, dropping *te* is the preferred option). This is true both in ordinary VP-topicalization and in cases of left-dislocation with a *d*-word as the correlate.

- (77) a. Ik heb nog nooit geprobeerd dat boek *(*te*) lezen.
 I have yet never tried that book to read
 ‘I have never tried to read that book.’
- b. Dat boek (*te*) lezen (, dat) heb ik nog nooit geprobeerd.
 that book to read *d*-PRON have I yet never tried
 ‘To read that book, I have never tried.’

The grammaticality of (77b) without *te* would be difficult to account for if we took an approach to it along the lines of (5b) or (5c). The legitimacy of the absence of *te* in (77b) strongly suggests that it is possible to base-generate a VP in the left periphery, with the bare infinitive being the citation form of the verb. The selectional mismatch that would arise if the *te*-less infinitive originated clause-internally is averted by base-generation of the bare-infinitival VP in the left periphery, associated with a *d*-word proform, which *proberen* can independently select (*Ik heb dat nog nooit geprobeerd* ‘I have never tried that yet’). That no overt correlate pronoun is necessary when the topicalized verbal constituent lacks the infinitival marker *te* (i.e., *dat* in (77b) is optional) suggests that the proform to which the base-generated topic is linked can itself be silent.

In the *te*-less infinitival topicalization/dislocation example in (77b), the proform (silent or overt) is not a surface anaphor: since the constituent in the high left periphery was base-generated there (and thanks to this, manages to escape the selectional restrictions imposed by the matrix verb), it cannot have left a surface anaphor behind further downstream. The proform that the clause-initial VP is associated with must hence be a deep anaphor—in other words, we must be dealing here with (5a).³⁰ Does this mean that the *te*-less version of (77b) *must* be treated as a case of HTLD?³¹

³⁰ Though the deep anaphor (*dat* or its silent counterpart) can, qua pro-predicate, thematically license the external argument of (77b), it cannot assign an internal θ -role, because deep anaphors lack internal structure. It is predicted, therefore, that Dutch *te*-less infinitival topicalization/dislocation cases like (77b) should not be amenable to argument floating of the type discussed in section 5.2: it should not be possible to place an internal argument of the bare infinitive in the correlate clause because that argument could not be thematically licensed by the deep-anaphoric pro-predicate. This prediction is roundly confirmed: (ia) (modeled closely on (77b)) is impossible without *te*, and so are the parallel cases (ib–c).

7.4 HTLD vs. CLD, and the Division of Labor between Deep and Surface Anaphora

An HTLD approach would surely be problematic for the *te*-less version of (77b) that lacks the proform *dat*: it would open the door to HTLD derivations for “ordinary” topicalization, which would have all sorts of undesired consequences. A more cautious approach would be to brand (77b) as a case of CLD and to treat the proform as a deep anaphor, as in (5a). But this raises the question of how CLD with deep anaphora can be distinguished from HTLD. Also, if indeed CLD can avail itself of deep anaphora under certain conditions, the division of labor between (5a) and (5b) becomes a prominent item on the research agenda.

- (i) a. **(Te)* lezen (, dat) probeert men deze boeken maar zelden.
to read *d*-PRON tries one these books but seldom
'One rarely tries to read these books.'
- b. **(Te)* kussen (, dat) zou ik haar nooit durven proberen.
to kiss *d*-PRON would I her never dare try
'I would never try to kiss her.'
- c. Rauw **(te)* eten (, dat) kun je dat vlees maar beter niet proberen.
raw to eat *d*-PRON can you that meat but better not try
'You had better not try to eat that meat raw.'

The presence or absence of the demonstrative correlate *dat* is immaterial, as before, but the presence or absence of the infinitival marker *te* makes an important difference: floating is possible just in case the selectional requirement imposed by *proberen* ‘try’ (viz., that it wants a *te*-infinitive as its complement) is satisfied, that is, just in case *te* is included. The argument float facts discussed in section 5.2 showed that the overt demonstrative correlate of a left-dislocate in Dutch can have surface anaphor traits: it is often possible to use an overt proform in VP-fronting constructions in which the bearer of the internal θ -role is “left behind” in clause-internal position. But in the Dutch *te*-less infinitival topicalization/dislocation construction in (77b), the proform cannot be a surface anaphor. Since deep anaphors lack internal structure, they cannot assign an internal θ -role to the floated objects in (i). This is why, when the topicalized infinitive is “bare” (i.e., lacks the infinitival marker *te*) in constructions in which the matrix verb’s selectional restrictions demand a *te*-infinitive, internal argument float is impossible.

³¹ On standard assumptions, one should be able to tell by examining the binding connectivity data for (77b). The problem is that it is extremely difficult to get crisp judgments on the relevant data. The predictions of a theory that takes all binding connectivity to necessarily involve *reconstruction* (i.e., the presence of a silent copy of a moved constituent harboring the bindee in the c-command domain of the binder) are clear: (ia) (which shows morphological connectivity, and is therefore compatible with a surface anaphor derivation) should be grammatical while (ib) should not; the latter should be on a par with (ic), which unambiguously involves HTLD. To the first author’s ear, while (ia) is indeed clearly grammatical and (ic) clearly is not, the status of (ib) is unsettled (whence the ‘□’): it certainly does not seem nearly as unacceptable as (ic); it might in fact come close to (ia) in acceptability (on the intended bound variable reading). If it should turn out that (ib), which lacks morphological connectivity, does in fact allow binding connectivity, this would show (on the assumption that absence of morphological connectivity *necessarily* diagnoses deep anaphora, in the manner of (5a)) that binding connectivity can be arrived at in ways that do not involve syntactic reconstruction. Such a result would jibe with work by Jacobson (1994) and Sharvit (1999) showing that, especially in specificational copular sentences, binding connectivity effects arise in contexts in which reconstruction of the container of the bindee into a position c-commanded by the binder is strictly impossible (see, e.g., *His car is every man’s pride and joy*, which supports a bound variable construal for *his* but cannot deliver it via reconstruction of *his car* below the predicate, *every man’s pride and joy*).

- (i) a. Zijn; dissertatie ongewijzigd *te* publiceren, *dat* heeft vrijwel niemand; gepresteerd.
his dissertation unaltered to publish *d*-PRON has virtually nobody managed
- b. □Zijn; dissertatie ongewijzigd publiceren, *dat* heeft vrijwel niemand; gepresteerd.
his dissertation unaltered publish *d*-PRON has virtually nobody managed
- c. *Zijn; dissertatie ongewijzigd *te* publiceren, vrijwel niemand; heeft *het* gepresteerd.
his dissertation unaltered to publish virtually nobody has it managed
All: ‘Virtually nobody has managed to publish his dissertation unrevised.’

Since (5a) and (5b) have different numerations (the former features a deep proform, which is part of its numeration, while the latter does not), the two derivations will only be competitors in terms of economy of derivation if the competition is based on interpretive equivalence (as in Fox 1999, Reinhart 2006). If they are in competition, (5a) might be thought preferable to (5b) because the latter involves a domain-internal movement step whereas the former eschews this movement. But there are strong indications that (5b), exploiting only movement, represents the default option, and that the coindexation/coreference mechanism that (5a) relies on is a last resort.

The second approach would be a less radical departure from the standard view, according to which what appear to be core cases of CLD are indeed bona fide cases of CLD (involving movement), and it is only in special cases that a special construal may be unavoidable. The conceptual appeal of this second possibility is that it would resemble Reinhart's (1983) Rule I ('NP A cannot corefer with NP B if replacing A with C, C a variable A-bound by B, yields an indistinguishable interpretation'). It would be more closely analogous to Reuland's (2001) economy hierarchy, according to which syntactic encoding of coreference takes precedence over variable binding (which in turn takes precedence over discourse coreference). Taking (5b) to be the default would also be in line with the classic picture of resumptive pronouns in relative clause islands in English, according to which the resumptive (base-generation) strategy is only available when the movement strategy is not (see last-resort approaches like those proposed in Shlonsky 1992, Pesetsky 1998 (in the Optimality Theory framework), or Aoun, Choueiri, and Hornstein 2001). Sichel (2014) adds an interpretive dimension to the last-resort type of approach to resumption: a resumptive pronoun can be interpreted like a gap only when a gap (instead of a pronoun) would be ungrammatical. This goes along with Grohmann's account of CLD, in which the resumptive (as a surface pronoun) apparently allows for reconstruction (the resumptive behaves as if the dislocated phrase occupied its position). The requirement (noted by Sichel) that this should be possible only when the gap is ungrammatical is met in Grohmann's derivation, since the gap would violate his antilocality restriction on domain-internal movements.

To those whom this line of argument strikes as convincing or even compelling, it will be a reason to believe that surface anaphora, as in (5b), is the default, and that (5a) is to be resorted to only when the facts force it upon us: when there are reasons to treat the proform as a deep anaphor. We present this line of thinking here as a topic for further investigation in the syntax of left-dislocation phenomena.

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