

# Embedding, Covert Movement, and Intervention in Kathmandu Newari

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**Abstract.** In this paper, we explore the syntax of *wh*-dependencies in Newari (Sino-Tibetan). We examine the patterns of intervention and island effects in *wh-in-situ* configurations, and we find that sensitivity to these constraints often co-occur. We thus argue that Newari permits *wh*-operators to either covertly move to fix their scope, or may take scope *in-situ* via focus alternative composition analysis. Additionally, we argue that clausal complements to verbs (“verbal argument CPs”) may be islands for covert movement in this language.

**Keywords.** Newari; movement; verbal-argument CPs; *wh*-phrases; scope; LF; covert movement

## 1. Introduction.

1.1. THEORETICAL BACKGROUND. In some languages, *wh*-operators in simple interrogatives overtly move, and in others, the *wh*-operator stays *in-situ*. In languages like English, the *wh*-operator moves from the base position to the Spec,CP position to take sentential scope, shown in (1). In languages like Newari, as in (2), the *wh*-operator may take sentential scope *in-situ*.

- (1) *What<sub>i</sub>* did Ram eat *t<sub>i</sub>*? (English)
- (2) Rām-na *chu* na-la?  
Ram-ERG what eat-PST  
‘What did Ram eat?’ (Newari)

Broadly, there are two main analyses of how *in-situ wh*-operators take wide scope without overt movement. One approach posits **covert movement** of the *wh*-operator (Huang 1982, Soh 2005, Yang 2012). This approach suggests that the *wh*-operator stays *in-situ* on the surface syntax as in (3a), but moves to the Spec,CP position at LF, as in (3b).

- (3) a. Surface syntax: [<sub>CP</sub> [<sub>TP</sub> Ram *what* ate]]  
b. LF: [<sub>CP</sub> *what<sub>i</sub>* [<sub>TP</sub> Ram *t<sub>i</sub>* ate]]

Covert movement (CM) analyses *prima facie* predict that *wh-in-situ* configurations should exhibit the same properties as overt movement, e.g., island sensitivity. In fact, island sensitivity is observed in *wh-in-situ* configurations. For example, in Mandarin Chinese, *in-situ wh*-operators display sensitivity to the Complex NP Constraint (Huang 1982, Bayer 2006, Cheng 2009). As shown in (4), the adverbial *wh*-phrase *weishenme* ‘why’ cannot covertly move out the DP, and thus fails to take sentential scope.

- (4) \* Qiaofeng xihuang [<sub>DP</sub> [<sub>CP</sub> Botong *weishenme* xie de] shu]  
Qiaofeng like Botong *why* written DE book  
‘For what reason *x*, Qiaofeng likes the book that Botong wrote for *x*?’  
(Mandarin, Huang 1982)

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Another account of *wh-in-situ* configurations is the focus alternatives composition analysis (FA). On this approach, *wh*-phrases are focus elements, and are interpreted by computing the focus semantic alternatives of the sentence (Beck 2006, Hamblin 1973, Karttunen 1977). On this account, *wh*-phrases have no ordinary semantic value, but instead “shift” the semantic value via (*g*) into a focus tier (*g, h*), until recombining with a morpheme *Q* in the root clause at LF, as in (6). Crucially, this analysis suggests that the interpretation of *wh*-operators does not involve any movement.

- (5) a.  $\llbracket [\text{TP Ram ate } \mathbf{what}] \rrbracket^{g,h} = \text{Ram ate } h(1)$   
 b.  $\llbracket [\text{TP Ram ate } \mathbf{what}] \rrbracket^g = \text{undefined}$
- (6)  $\llbracket [Q_1 [\text{Ram ate } \mathbf{what}_1]] \rrbracket^g = \lambda p \exists x [p = \lambda w. \text{Ram ate } x \text{ in } w].$

One advantage of the FA approach is that it provides a natural explanation for intervention effects, which are observed in many *wh-in-situ* configurations (Beck 2006). Intervention effects are the unacceptability that arises when an *in-situ wh*-operator appears within the scope of a focus-sensitive operator, demonstrated in the sentences in (7) and (8). These sentences are ungrammatical, because the *in-situ wh*-operator appears within the scope of the intervener ‘only’. According to Beck (2006), intervention effects arise because the focus-sensitive operator cannot combine with the constituent containing the *in-situ wh*-operator, since the ordinary semantic value of this constituent is undefined, demonstrated in (9).

- (7) \* John-*hi* **kyaa** khariide-gaa?  
 John-only what buy-FUT  
 ‘What will only John buy?’ (Hindi, Malhotra 2009)
- (8) \* Minsu-*man* **nuku**-lûl po-ass-ni?  
 Minsu-only who-ACC see-Pst-Q  
 ‘Who did only Minsu see?’ (Korean, Beck 2006)
- (9) a.  $\llbracket [\text{buy } \mathbf{what}_1] \rrbracket^g = \text{undefined}$   
 b.  $\llbracket [\text{buy } \mathbf{what}_1] \rrbracket^{g,h} = \lambda w. \lambda x x \text{ bought } h(1) \text{ in } w$   
 c. \* $\llbracket [\text{only John}] \rrbracket^g (\llbracket [\text{buy } \mathbf{what}_1] \rrbracket^g)$

1.2. THE PUZZLE IN NEWARI. Generally, the CM and FA approaches are understood as alternative analyses for analyzing the scope of *in-situ wh*-operators. If in some configuration, an *in-situ wh*-operator fails to take sentential scope, this may be understood as arising from (island) constraints on covert movement, or by intervention effects constraining focus composition. However, our Newari data show a different pattern: neither island effects or intervention effects occur in matrix clauses, whereas both occur in certain embedded clauses. We will lay out the puzzle in this section and explain this matter in detail in Section 2 and 3, and suggest an account by combining the two approaches in Section 4.

First, intervention effects are not observed for *in-situ wh*-operators in Newari matrix clauses. In contrast to the Hindi and Korean examples in (7) and (8), Newari *wh*-operators may take sentential scope over a focus-sensitive operator in matrix clauses, demonstrated in (10).

- (10) Rām-na-*caka* **chu** na-u?  
 Ram-ERG-only what eat-PST  
 ‘What did only Ram eat?’

We suggest that the *wh*-operator takes scope through CM in this case, given the lack of intervention effect.

Although we do not observe intervention effects in matrix clauses, we do find them in embedded clauses. In (11a), a *wh*-operator may take either wide or narrow scope in an embedded clause. However, as shown in (11b) the wide-scope reading is blocked when the *wh*-operator is in the scope of another focus operator.

- (11) a. Sitā-m̄ [CP Rām-na **chu** na-u (dhakā)] dhā-u  
 Sita-ERG Ram-ERG what eat.PST that say-PST  
 ‘Sita said what Ram ate.’  
 ‘What did Sita say that Ram ate?’
- b. Sitā-m̄ [CP Rām-na-*caka* **chu** na-u (dhakā)] dhā-u  
 Sita-ERG Ram-ERG-only what eat.PST that say-PST  
 ‘Sita said what only Ram ate.’  
 \*‘What did Sita say that only Ram ate?’

Second, *wh-in-situ* not sensitive to traditional island constraints (e.g., relative clause islands, complex NP islands, comparative clauses, *etc.*), when not embedded in a verbal-argument CP. For example, the sentence in (12) has a relative clause, but the *wh*-operator takes wide scope regardless. Thus, no island effects are observed, which is unexpected on a CM analysis.

- (12) Rām-na [RC **su-na** dā ma] guru nāplā-u?  
 Ram-ERG who-ERG hit CL teacher meet-PST  
 ‘Which person *x*, Ram met the teacher *y* that *x* hit *y*’

By contrast, we find that *wh*-operators embedded in a relative clause in a verbal-argument CP are ungrammatical, as shown in (13).

- (13) \* Ākās-ām̄ [CP Rām-na [RC **su-na** dā ma] guru nāplā-u] dhā-u?  
 Akash-ERG Ram-ERG who-ERG hit CL teacher meet-PST say-PST  
 ‘Who is the person *x*, such that Akash said that Ram met the teacher *x* hit?’

Given that there is no clear focus-sensitive operator in this sentence, we argue that this is an instance of an island violation for covert movement.

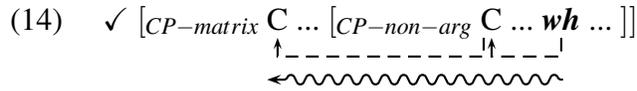
The pattern that we seek to explain is summarized in Table 1. On most accounts of *wh-in-situ* configurations, we do not expect island sensitivity and intervention to co-pattern in this way. In this paper, we investigate the following questions: 1) Why does the distribution of *wh*-phrases determine the constraints that they are sensitive to? 2) Why do we not observe traditional island constraints on covert movement in Newari? 3) Why does Newari exhibit these patterns, but not previously studied languages (Mandarin Chinese, Japanese, Hindi, ...)?

Clausal Type	Structure	Island effect	Intervention effect
Matrix clause	[ <sub>M-CP</sub> [ <sub>Adj-CP</sub> ... <i>wh</i> ... ]]	No	No
V-complement CP	[ <sub>M-CP</sub> V [ <sub>Arg-CP</sub> ... <i>wh</i> ... ]]	Yes	Yes

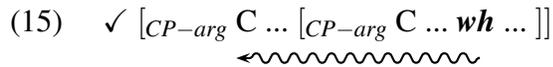
**Table 1** The existence (and non-existence) of the two effects in different clausal types

1.3. OUR PROPOSAL. We propose that Newari permits either covert movement (CM) or focus alternatives composition (FA) to fix the scope of a *wh*-operator in matrix clauses

(non-verbal-argument CPs), as shown in (14). This offers an account for why neither of the effects are observed in matrix clauses. When FA is blocked by an intervener, the *wh*-operator can still take the scope via CM, and *vice versa*. When CM is blocked by an island, FA will become available for the *wh*-operator to take scope.



We also propose that Newari only allows the FA strategy for *in-situ wh*-operators in verbal-argument CPs, as in (15). We will show some evidence to support this analysis in the next two sections, and then discuss a complex case of a non-verbal-argument CP embedding in a verbal-argument CP, where both FA and CM may be deployed.



**2. Non Verbal-Argument CPs.** In this section, we examine the behavior of *in-situ wh*-operators in matrix clauses, and embedded clauses that are not arguments to verbs. We demonstrate that both FA and CM strategies may be used in these contexts.

As described above, Newari is typically a *wh-in-situ* language, i.e., *wh*-operators appear in their canonical position and take sentential scope, as demonstrated in (16a) and (16b). *Wh*-operators are homophonous with indefinite pronouns, although they may be assigned a higher tone when interpreted as a *wh*-operator. Additionally, *wh*-operators may scramble to the beginning of the clause, as demonstrated in (17a). This is improved if the *wh*-operator is D-linked, shown in (17b).

- (16) a. Rām-na **chu** na-la  
 Ram-ERG what eat-PST  
 ‘Ram ate something.’  
 ‘What did Ram eat?’
- b. **su-na** aṃ na-la  
 Who-ERG mango.ABS eat-PST  
 ‘Someone ate mangos.’  
 ‘Who ate mangos?’
- (17) a. (?) **chu** Rām-na — na-la?  
 what Ram.ERG eat-PST  
 ‘What did Ram eat?’
- b. **gupati aṃ** Rām-na — na-la?  
 which mango Ram-ERG eat-PST  
 ‘Which mango did Ram eat?’

As mentioned in the previous section, we propose that *wh*-operators in matrix clauses may either use FA or CM strategies. First, we do not observe intervention effects, either for argument *wh*-operators, as demonstrated in (10), or for adjunct *wh*-operators, demonstrated in (18). In these sentences, the *wh*-operators are c-commanded by the focus operator *caka* ‘only’. If the *wh*-operator was interpreted with sentential scope through an FA strategy, then these sentences would be predicted to be ungrammatical. Therefore, we propose that the CM strategy is necessary for these configurations.

- (18) Rām-na-*caka* **chæ** am na-u?  
 Ram-ERG-only why mango.ABS eat-PST  
 ‘Why did only Ram eat a mango?’

Next, we turn our attention to adjunct clauses adjoined in matrix clauses. We investigate island sensitivity for *in-situ wh*-operators. Huang (1982) argues that *in-situ* adjunct *wh*-operators are typically ungrammatical in traditional island configurations – relative clauses, adjunct clauses, comparative clauses, *etc.* As the example shows in (19), the *wh*-operator *weishenme* (‘why’) is sensitive to the complex NP constraints. However, there is an asymmetry between *wh*-adjuncts and *wh*-arguments in Mandarin Chinese. *Wh*-arguments are not sensitive to island constructions, demonstrated in (20).

- (19) \* Qiaofeng xihuan [<sub>CP</sub> Botong **weishenme** xie de] shu?  
 Qiaofeng like Botong why write de book  
 ‘For what reason *x*, such that Qiaofeng like the book that Botong wrote for *x*?’  
 (Mandarin, Huang 1982)

- (20) Qiaofeng xihuan [<sub>CP</sub> Botong gei **shui** xie de] shu?  
 Qiaofeng like Botong give who write de book  
 ‘For which person *x*, such that Qiaofeng like the book that Botong wrote to *x*?’

In Newari, we find no sensitivity to traditional islands for *in-situ wh*-operators. We find that both argument *wh*-operators, as in (21) and (22), and adjunct *wh*-operators, as in (23), may take wide scope from relative clauses, comparative clauses, and adjunct clauses.

- (21) Rām-na [<sub>NP</sub> [<sub>RC</sub> **su-na** dā ma] guru] nāplā-u?  
 Ram-ERG who-ERG hit CL teacher met-PST  
 ‘For which person *x*, Ram met the teacher *y*, *x* hit *y*?’
- (22) Rām-a [<sub>CP</sub> **su-na** bwæm wani-u shyā yaku] swimming ya-i.  
 Ram-ERG who-ERG run go-PST than more swimming do-NonPst  
 ‘For which person *x*, Ram swims more than *x* runs?’
- (23) [<sub>ADJ</sub> Rām-a Sitā-ta **gena** pāy-u liṃ], wi-to mhiphusi swama?  
 Ram-ERG Sita-DAT how blame-PST because, 3.SG-Dat sad PROG  
 ‘For which way *x*, because Ram blamed Sita in *x* way, she feels sad?’

To account for these facts, we could suggest that the *wh*-operator takes sentential scope through an FA strategy. If so, we predict no island sensitivity, as observed above. However, we then predict that we should find intervention effects for these configurations. Surprisingly, as we show below, this prediction is not borne out. Thus, the *wh*-operator must take scope through a CM strategy, and we conclude that relative clauses, comparative clauses, and adjunct clauses are not islands for covert movement of *wh*-operators.

Importantly, we find no intervention effects for *wh*-operators in these positions. In (24), we find that *suna* ‘who.ERG’ takes wide scope, even though it is interpreted in the scope of *caka* ‘only’. This implies that *suna* does not take sentential scope through an FA strategy. Instead, we infer that it fixes its scope through the CM strategy. Similar findings are demonstrated in (25).

- (24) Rām-na-*caka* [<sub>NP</sub> [<sub>CP</sub> **su-na** dā ma] guru] nāplā-u?  
 Ram.ERG-only who-ERG hit CL teacher meet-PST

‘For which person *x*, Ram met the teacher *y*, *x* hit *y*?’

- (25) Rām-a-*caka* [CP **su-na** bwæṃ wani-u shyā yaku] swimming ya-i.  
 Ram-ERG-only who-ERG run go-PST than more swimming do-NonPst  
 ‘For which person *x*, Ram swims more than *x* runs?’

In this section, we argued that *wh*-operators must covertly move in Newari, given that there are no intervention effects observed for matrix *wh*-in-situ configurations. Furthermore, we found no evidence of island effects for covert movement, in many traditional island configurations, specifically, relative clauses, comparative clauses, and adjunct clauses.

**3. Verbal-Argument CPs.** Next, we turn our attention to the verbal-argument CP structures. In this section, we examine whether island effects or intervention effects are observed in verbal-argument CPs, and whether argument *wh*-operators or adjunct *wh*-operators show different profiles.

3.1. INTERVENTION EFFECTS IN VERBAL-ARGUMENT CPs. Generally, argument *wh*-operators may take sentential scope from a verbal-argument CP:

- (26) Sitā-na [CP **su-na** aṃ na-u dhāyā] si-la?  
 Sita-ERG who-ERG mango.ABS eat-PST that know-NONPST  
 ‘Who did Sita know ate the mango?’

However, unlike matrix clauses or non-argument embedded clauses, we do observe intervention effects in verbal-argument CPs. In (27), we find that the sentential scope interpretation of *chu* ‘what’ is blocked. Instead, *chu* ‘what’ must be interpreted with embedded scope. Similar findings are demonstrated with (27b) for the adjunct *wh*-operator *chæ* ‘why’. We attribute this obligatory low-scope induced by the addition of the focus operator *caka* ‘only’ to an intervention effect.

- (27) a. Sitā-ṃ [CP Rām-a-*caka* **chu** na-u (dhakā)] dhā-u  
 Sita-ERG Ram-ERG-only what eat.PST that say-PST  
 ‘Sita said what only Ram ate.’  
 \* ‘What did Sita say that only Ram ate?’  
 b. Sitā-ṃ [CP Rām-a-*caka* **chæ** aṃ na-u (dhakā)] dhā-u  
 Sita-ERG Ram-ERG-only why mango.ABS eat.PST that say-PST  
 ‘Sita said why only Ram ate mango.’  
 \* ‘Why did Sita say that only Ram ate mango?’

We also find that a sentential scope interpretation is available if the *wh*-operator overtly scrambles above the focus-operator, as in (28). This supports our analysis, since overt movement has been independently shown to ameliorate intervention effects (Beck 2006).<sup>1</sup>

- (28) a. Sitā-ṃ [CP **chu** Rām-a-*caka* \_\_\_ na-u (dhakā)] dhā-u  
 Sita-ERG what Ram-ERG-only eat.PST that say-PST  
 #‘Sita said what only Ram ate.’  
 ‘What did Sita say that only Ram ate?’

<sup>1</sup> Overtly scrambling the *wh*-operator makes embedded scope interpretations much more difficult to access. We do not account for this fact here. However, this may be related to the fact that, in general, scrambling *wh*-operators strongly prefer sentential scope.

- b. Sitā-ṃ [CP **chæ** Rām-a-*caka* — am na-u (dhakā)] dhā-u  
 Sita-ERG why Ram-ERG-only mango.ABS eat.PST that say-PST  
 #‘Sita said why only Ram ate mango.’  
 ‘Why did Sita say that only Ram ate mango?’

Furthermore, verbal-argument CPs can be fronted. If so, the *wh*-operator can take sentential scope, as in (29). Moving a verbal-argument CP over an intervener can ameliorate an intervention effect. In (30a), we find obligatory embedded scope for *chu* ‘what’, which we attribute to an intervention effect induced by *caka* ‘only’. However, moving the CP to the front of the clause permits both sentential and embedded scope, as shown in (30b).

- (29) [CP Rām-a chu na-u (dhakā)] Sitā-ṃ dhā-u  
 Ram-ERG what eat.PST that Sita-ERG say-PST  
 ‘Sita said what Ram ate.’  
 ‘What did Sita say that Ram ate?’
- (30) a. [CP Rām-a-*caka* **chu** na-u (dhakā)] Sitā-ṃ dhā-u  
 Ram-ERG-only what eat.PST that Sita-ERG say-PST  
 ‘Sita said what only Ram ate.’  
 \*‘What did Sita say that only Ram ate?’
- b. [CP **Chu** Rām-a-*caka* — na-u (dhakā)] Sitā-ṃ dhā-u  
 what Ram-ERG-only eat.PST that Sita-ERG say-PST  
 ‘Sita said what only Ram ate.’  
 ‘What did Sita say that only Ram ate?’

We find the same result for adjunct *wh*-operators, shown in (31). An intervener forces the *wh*-operator *chæ* ‘why’ to take embedded scope. However, moving the verbal-argument CP to the front of the clause permits sentential scope.

- (31) a. [CP Rām-a-*caka* **chæ** om na-u (dhakā)] Sitā-ṃ dhā-u  
 Ram-ERG-only why mango.ABS eat.PST that Sita-ERG say-PST  
 ‘Sita said why only Ram ate mango.’  
 \*‘Why did Sita say that only Ram ate mango?’
- b. [CP **Chæ** Rām-a-*caka* — om na-u (dhakā)] Sitā-ṃ dhā-u  
 why Ram-ERG-only mango.ABS eat.PST Sita-ERG that say-PST  
 ‘Sita said why Ram ate mango.’  
 ‘Why did Sita say that Ram ate mango?’

So far, we have only examined sentences in which the intervener is in the same clause as the *wh*-operator. Similar patterns obtain when the intervener is in the matrix clause. In (32), the addition of an intervener results in an ungrammatical sentence.

- (32) a. Rām-a [CP [CP Sitā-ṃ **chu** na-u] sāyl-am dhā-u] swace yā-u  
 Ram-ERG Sita-ERG what eat.PST Sayal-ERG say-PST think do.PST  
 ‘What did Ram think that Sayal said that Sita ate?’<sup>2</sup>
- b. \* Rām-a-*caka* [CP [CP Sitā-ṃ **chu** na-u] sāyl-am dhāu] swace yā-u  
 Ram-ERG-only Sita-ERG what eat.PST Sayal-ERG say.PST think do.PST

<sup>2</sup> We do not have an explanation for why double center-embedding does not yield narrow scope in this sentence, or in (33)

‘What did only Ram think that Sayal said that Sita ate?’

If this results from an intervention effect, then we again predict that moving the clause above the intervener should result in the availability of sentential scope, due to amelioration of the intervention effect. This prediction is confirmed in (33). Moving the most deeply embedded clause (*Sitām chu nau* Sita-ERG what eat.PST ‘Sita ate what’) to the front of the sentence yields sentential scope.

(33) [CP<sub>i</sub> [CP Sitā-m **chu** na-u] sāyl-am dhāu] Rām-a-*caka* CP<sub>7</sub> swace yā-u  
 Sita-ERG what eat.PST Sayal-ERG say.PST Ram-ERG-only think do.PST  
 ‘What did only Ram think that Sayal said that Sita ate?’

To summarize, we demonstrate that we consistently get intervention effects for *wh*-operators embedded in verbal-argument CPs, as sketched in (34), unlike matrix clauses or in other embedded CPs. On a CM analysis, these findings are surprising, since covert movement should ameliorate intervention effects in the LF representation. In this paper, we argue that, in general, Newari employs both FA and CM strategies for *in-situ wh*-operators, and verbal-argument CPs must be islands for covert movement in Newari.

(34) Intervention Effects in FA of argument CPs, account for Sentence (27) and (32b):

- a. \* [M-CP C [arg-CP C ... [arg-CP C ... FOCUS ... *wh* ... ]]]  

- b. \* [M-CP C [arg-CP C ... FOCUS ... [arg-CP C ... *wh* ... ]]]  


However, there are some apparent counterexamples to our proposal. On our analysis, *wh*-operators embedded in verbal-argument CPs must rely on an FA strategy to be interpreted with sentential scope. This is because covert movement out of verbal-argument CPs is blocked. If so, then we predict that there should be no sensitivity to traditional island configurations, since only (covert) movement is sensitive to island constraints, by hypothesis, and because we have argued that traditional island constraints do not apply to covert movement in Newari. However, as demonstrated in (35) and (36), it is ungrammatical to have a *wh*-operator in a relative clause embedded in a verbal-argument CP. This might be interpreted as an island violation, given that relative clauses and adjunct clauses are typically islands. If so, then this appears to contradict our proposal that relative clauses and adjunct clauses are not islands in Newari, and that only the FA strategy is employed for *wh*-operators embedded in verbal-argument CPs, as sketched in (37). Since Newari employs both FA and CM strategies, it is unclear why they may not be applied on after the other (CM after FA) for the *wh*-operator to take sentential scope, as suggested for English by (Kotek & Hackl 2013), sketched in (38). Such a derivation appears to be unavailable for Newari *wh*-in-situ.

(35) \* Ākās-ām [CP Rām-a [NP [RC **su-na** dā ma] guru] nāplā-u] dhā-u?  
 Akash-ERG Ram-ERG who-ERG hit CL teacher meet-PST say-PST  
 ‘For which person *x*, Akash said that Ram met the teacher *y* that *x* hit *y*?’

(36) \* Rām-a [CP [ADJ jī-m **gana** ma waṃ-u liṃ], jī fel ju-la]  
 Ram-ERG 1.SG-ERG where NEG go-PST because, 1.SG. fail happen-PST  
 dhā-u  
 say-PST  
 ‘For which place *x*, Ram said that, because I didn’t go to *x*, I failed?’

(37) Fail to covertly move *wh*-operator out of the argument CP boundary:

\*  $[M-CP\ C\ [arg-CP\ C\ \dots\ [adj-CP\ C\ \dots\ \mathbf{wh}\ \dots\ ]]]$   
 $\uparrow\ \text{-----}\ \uparrow\ \text{-----}\ \uparrow$

(38) Model of English multi-*wh*-questions:

✓  $[M-CP\ \mathbf{wh}\ \dots\ C\ [arg-CP\ C\ \dots\ [adj-CP\ C\ \dots\ \mathbf{wh}\ \dots\ ]]]$   
 $\leftarrow\ \text{~~~~~}\ \uparrow\ \text{-----}\ \uparrow\ \text{-----}\ \uparrow$

#### 4. Towards to an Account: A combination of Covert Movement and Focus Alternatives in Newari.

In this paper, we proposed that, in Newari, (1) the mechanism for fixing *wh*-scope depends on the configuration that the *wh*-operator surfaces in, and (2) verbal-argument CPs are islands for covert movement, but not relative clauses, comparative clauses, or adjunct clauses. Given the absence of intervention effects in matrix clauses, we proposed that *wh*-operators covertly move in Newari. However, in principle, FA may also be available. Thus, the sentence in (39) may be syntactically ambiguous as in (40a) and (40b). We propose that Universal Grammar permits *wh*-operators to take scope either by either the CM or FA strategies.

(39) Rām-na *chu* na-la?  
 Ram-ERG what eat-PST  
 ‘What did Ram eat?’

(40) a. Covert movement LF:  
 $[CP\ C\ Rām-na\ \mathbf{chu}\ na-la\ ]$ .  
 $\uparrow\ \text{-----}\ \uparrow$

b. Focus alternatives composition LF:  
 $[CP\ Q\ Rām-na\ \mathbf{chu}\ na-la\ ]$ .  
 $\leftarrow\ \text{~~~~~}\ \uparrow$

If so, we reasoned that the presence of intervention effects for *wh*-operators in verbal-argument CPs must arise because the CM strategy is blocked, i.e., verbal-arguments are islands for covert movement. At this point, we do not have a clear explanation for why this should be the case in Newari, but not in many other well-studied languages, such as Mandarin, Japanese, or Hindi. One possibility is that these constraints follow from the syntax of evidentiality in Newari. Newari uses a “conjunct/disjunct” agreement system, in which the verb agreement is determined by whether the subject is coreferential with the perspective-holder (Zu 2015, Coppock & Wechsler 2016). Following Zu (2015), we assume verbal agreement is controlled by a null pronoun in Spec,CP that is coindexed with the perspective holder. Conjunct agreement occurs when the grammatical subject and this pronoun are co-indexed, and disjunct agreement occurs when they are contra-indexed:

(41) a. Wo-ṃ<sub>i</sub> [CP *pro*<sub>i</sub> [TP lā na-e dhakā]] dhāl-a  
 He.ERG meat eat-CONJ C said  
 ‘He<sub>i</sub> said that he<sub>i</sub> will eat meat.’

b. Wo-ṃ<sub>i</sub> [CP *pro*<sub>j</sub> [TP lā na-i dhakā]] dhāl-a  
 He.ERG meat eat-DISJ C said  
 ‘He<sub>i</sub> said that he<sub>j</sub> will eat meat.’

Newari (Hargreaves 1991)

If this account is on the right track, then it may be that this perspective-taker pronoun in Spec,CP may block the Spec,CP escape hatch. In other words, the availability of conjunct/disjunct agreement in Newari may induce a subjacency violation for covert movement from the

verbal-argument CP. This appears to contradict the findings from Huang (1982), however, and thus needs to be examined in more detail in future research.

Relatedly, we are forced to say that traditional islands (CNPC, relative clauses, adjunct clauses) are not islands for covert movement in Newari, although verbal-argument CPs are. However, overt movement (e.g., relativization) appears to pattern in the expected ways – extraction from traditional islands is unacceptable, and extraction from embedded clauses, as showing in (42a) and (42b), while (43) seems to be better than the former ones.

- (42) a. \*Rām-na [NP [RC [NP [RC  $t_i$  kham-u ma] masā] Nepali kha ma] **guru<sub>i</sub>**] nāplā-u  
 Ram-ERG see-PST CL child Nepali COP CL teacher meet-PST  
 ‘Ram met the teacher  $x$  that the child  $y$  that saw  $x$  was Nepali.’  
 b. \*Ji-m̄ [NP [CP [A<sub>adj</sub> wa  $t_i$  wa-la liṃ] Nepal-bhāsā bwani-u] skul<sub>i</sub>] wa-na  
 I-also 3.SG went because Newari-language study-CL school went  
 ‘I also went to the school  $x$  that Ram studied Newari because he went to  $x$ .’
- (43) Ram [CP-adj Sita-m̄ [CP-arg w-ito  $t_i$  ya dhāka] dhā-ma] **guru<sub>i</sub>**] nāplā-u  
 Ram Sita-ERG she-DAT like C say-CL teacher meet-PST  
 ‘Ram met the teacher that Sita said that she liked.’

Finally, this approach over-generates. Recall that *wh*-operators in an adjunct clause embedded in a verbal-argument CP cannot take sentential scope, which we diagnosed as an island effect. However, if a focus alternative analysis is always available in principle, this sentence is predicted to be grammatical. Thus, we need some way of blocking focus alternatives in these contexts, even though it seems necessary in other contexts, as (44) shows:

- (44) \*ākās-ām̄ [CP Rām-a [NP [RC **su-na** dā ma] guru] nāplā-u] dhā-u?  
 Akash-ERG Ram-ERG who-ERG hit CL teacher meet-PST say-PST  
 ‘For which person  $x$ , Akash said that Ram met the teacher  $y$  that  $x$  met  $y$ .’

Despite these shortcomings, the evidence in Newari suggests that covert movement and focus alternatives are both available, each with their own locality constraints. We argue that the findings that we’ve described follow as a conspiracy from these constraints, plus independently-motivated grammatical properties (i.e., conjunct/disjunct agreement).

**5. Conclusion** In this paper, we demonstrated that Newari non-argument CPs (matrix clauses and adjunct clauses) do not show intervention effects or island effects, while intervention effects are observed in the verbal-argument CPs, and island effects appear when adjunct clauses are embedded inside of the verbal-argument CPs. We propose both covert movement and focus alternative analysis account for the array of scopal interpretations for *in-situ wh*-configurations. For future work, we will investigate the issue with other interveners in this language. Additionally, we plan to investigate when interveners result in ungrammaticality in Newari, as opposed to obligatorily embedded scope. Finally, we seek to clarify why verbal-argument CPs are islands for covert movement, and why the patterns observed in Newari are not found in better-studied languages.

**A. Extra Data.** *Examples of wh-in-situ exhibiting no island effects of complex NP construction in non-argument CP clause. In (45) and (46), ‘chu’ and ‘guble’ take wide scope, and they are grammatical.*

- (45) Rām-na [NP [CP Sitā-na **chu** ne-i dhayu] tathaya] sy-u?  
 Ram-ERG Sita-ERG what eat-NON-PST that news know-PST  
 ‘For which thing  $x$ , such that Ram know the news that Sita will eat  $x$ ?’
- (46) Rām-a [NP [CP Sitā-ṁ **guble** aṁ na-u] (wa) halā] shy-u?  
 Ram-ERG Sita-ERG when mango.ABS eat-PST that rumor know-PST  
 ‘For which time  $x$ , such that Ram know the rumor that Sita ate mango at  $x$  time?’

*Examples of wh-in-situ exhibiting island effects of complex NP construction in argument CP clause. In (47) and (48), ‘chu’ and ‘guble’ cannot take wide scope, and they are ungrammatical.*

- (47) # Sāyāl-āṁ [CP Rām-na [NP [CP Sitā-na **chu** ne-i dhayu] tathaya]  
 Sayal-ERG Ram-ERG Sita-ERG what eat-NON-PST C news  
 sy-u] dhā-u  
 know-PST say-PST  
 Intended: ‘For which thing  $x$ , such that Sayal said that Ram know the news that Sita will eat?’<sup>3</sup>
- (48) \* ākās-āṁ [CP Rām-a [CP Sitā-ṁ **guble** aṁ na-u] (wa) halā  
 Akash-ERG Ram-ERG Sita-ERG when mango.ABS eat-PST that rumor  
 shy-u] swace yato?  
 know-PST think do.PST  
 Intended: ‘When did Akash think Ram know the rumor that Sita ate mango?’

*Examples of wh-in-situ exhibiting no island effects of relative clauses inside of non-argument CP clause, as in (49), the wh-operator ‘chu’ takes wide scope, while exhibiting island effects in inside of argument CP clause, as it does not take wide scope in (50).*

- (49) Rām-a [NP [RC **su-na** dā ma] guru] nāplā-u?  
 Ram-ERG who-ERG hit CL teacher meet-PST  
 ‘For which person  $x$ , such that Ram met the teacher who  $x$  hit?’
- (50) \* Ākās-āṁ [CP Rām-a [NP [RC **su-na** dā ma] guru] nāplā-u] dhā-u?  
 Akash-ERG Ram-ERG who-ERG hit CL teacher meet-PST say-PST  
 ‘For which person  $x$ , such that Akash said that Ram met the teacher who  $x$  hit?’

*Examples of wh-in-situ exhibiting no island effects of comparative clause inside of non-argument CP clause, as in (51), the wh-operator ‘su-na’ takes wide scope, while exhibiting island effects in inside of argument CP clause, as it does not take wide scope in (52).*

- (51) Rām-a [CP **su-na** bwæṁ wani-u shyā yaku] swimming ya-i.  
 Ram-ERG who-ERG run go-PST than more swimming do-NonPst.  
 ‘For which person  $x$ , such that Ram swims more than  $x$  runs?’

<sup>3</sup> Our language consultant came back forth with the judgments with this pattern

- (52) \* ākās-āṃ [CP Rām-a [THAN **su-na** bwæṃ wani-u shyā yaku] swimming  
 Akash-ERG Ram-ERG who-ERG run go-PST than more swimming  
 ya-i] dhā-u?  
 do-NONPST say-PST.  
 Intended: ‘For which person  $x$ , such that Akash said Ram swims more than  $x$  runs?’

*Examples of wh-in-situ exhibiting no island effects of ‘because’-clause inside of non-argument CP clause, as in (53), the wh-operator ‘gana’ takes wide scope, while exhibiting island effects in inside of argument CP clause, as it does not take wide scope in (54).*

- (53) [ADJ jī-ṃ **gana** ma waṃ-u liṃ], jī fel ju-la.  
 1.SG-ERG where NEG go-PST because, 1.SG. fail happen-PST  
 ‘For which place  $x$ , such that because I didn’t go  $x$ , I failed (the test)?’
- (54) \* Rām-a [CP [ADJ jī-ṃ **gana** ma waṃ-u liṃ], jī fel ju-la]  
 Ram-ERG 1.SG-ERG where NEG go-PST because, 1.SG. fail happen-PST  
 dhā-u  
 say-PST  
 ‘For which place  $x$ , such that Ram said because I didn’t go  $x$ , I failed (the test)?’

*Examples of wh-in-situ exhibiting no island effects of ‘before/after’-clause inside of non-argument CP clause, as in (55), the wh-operator ‘chu’ takes wide scope, while exhibiting island effects in inside of argument CP clause, as it does not take wide scope in (56).*

- (55) [ADJ Sāyāl-āṃ **chu** he-i nym/damkā] Sitā pasal-e wan-i.  
 Sayal-ERG what bring-NONPST before/after Sita store-LOC go-NONPST  
 ‘For which thing  $x$ , such that before Sayal brings  $x$ , Sita will go to the store.’
- (56) Rām-na [CP [ADJ Sāyāl-āṃ **chu** he-i nym/damkā] Sitā pasal-e  
 Ram-ERG Sayal-ERG what bring-NONPST before/after Sita store-LOC  
 wan-i] dha-u.  
 go-NONPST say-PST  
 ‘For which thing  $x$ , such that Ram said that before Sayal brings  $x$ , Sita will go to the store.’

*Examples of wh-in-situ exhibiting no island effects of ‘wh’-clause inside of non-argument CP clause, as in (57), the wh-operator ‘suito’ takes wide scope, while exhibiting island effects in inside of argument CP clause, as it does not take wide scope in (58).*

- (57) Rām-a [CP Sāyāl-āṃ **su-ito** dā-lā dhaya] bihchar yāna-swana?  
 Ram-ERG Sayal-ERG who.DAT hit-Q that] wonder do.PST-PROG  
 ‘Ram is wondering whether Sita hit whom?’
- (58) Sitā-na [CP Rām-a [CP Sāyāl-āṃ **su-ito** dā-lā dhaya] bihchar yāna-swana]  
 Sita-ERG Ram-ERG Sayal-ERG who.DAT hit-Q that] wonder do.PST-PROG  
 dhā-u?  
 say-PST  
 ‘Sita said Ram is wondering whether Sita hit whom?’

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