Questions in Urdu/Hindi: Moving beyond Movement

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- Concentrate on the **right periphery**.



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 - Not only takes i(nformation)-structure factors seriously
 - ② But is also working within an architecture of grammar that lets one to naturally integrate i-structure information with syntactic, semantic and prosodic analyses (e.g., LFG).
- Examine different kinds of architectural assumptions and resulting perspectives on data.

Structure of Talk

- Brief overview of questions in Urdu/Hindi
- The core data for this talk
- Architectural Issues
- Previous analyses (all movement)
- Alternative analysis
- Conclusion

Urdu/Hindi has traditionally been characterized as a **wh-in-situ** language (but see Bayer 2006 for a differentiated discussion and understanding of the phenomenon).

```
    a. sita=ne d<sup>h</sup>yan=se ram=ko dek<sup>h</sup>-a t<sup>h</sup>-a Sita.F=Erg carefully Ram.M=Acc see-Perf.M.Sg be.Past-M.Sg 'Sita had looked at Ram carefully'
    b. sita=ne d<sup>h</sup>yan=se kıs=ko dek<sup>h</sup>-a t<sup>h</sup>-a? Sita.F=Erg carefully who.Obl=Acc see-Perf.M.Sg be.Past-M.Sg 'Who had Sita looked at carefully?'
```

The default word order in Urdu/Hindi is SOV.



But: **default** position for questions is actually the **preverbal** focus position (for topic/focus analyses of Urdu/Hindi, see Gambhir 1981, Butt and King 1996, 1997, Kidwai 2000).

```
(2) a.
       sita=ne d^hyan=se ram=ko dek^h-a t^h-a
       Sita.F=Erg carefully Ram.M=Acc see-Perf.M.Sg be.Past-M.Sg
       'Sita had looked at Ram carefully'
    h.
                  kaise ram=ko dek<sup>h</sup>-a t<sup>h</sup>-a?
       sita=ne
       Sita.F=Erg how Ram.M=Acc see-Perf.M.Sg be.Past-M.Sg
       'How had Sita managed to see Ram?'
       (expresses some degree of wonder)
    C.
                  ram=ko kaise dek<sup>h</sup>-a
                                                 th-a?
       sita=ne
       Sita.F=Erg Ram.M=Acc how see-Perf.M.Sg be.Past-M.Sg
       'How had Sita looked at Ram?' (default order for a how-question)
```

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 - they have exactly the same kind of scrambling possibilities as normal NPs (Manetta 2012).
 - 2 But: there is a difference in interpretation (cf. (2b) vs. (2c)).
- This has not been the subject of much discussion in the literature.
- For a comprehensive overview over the state-of-the-art around 2003, see Bhatt (2003).

Some things people (e.g., Mahajan 1990, Srivastav 1991, Dayal 1994, 1996, Lahiri 2002, Bhatt and Dayal 2007, Manetta 2010, 2012) have worried about:

- The wh-word cannot take matrix scope if it is in an embedded clause ((3)).
- Analyses of the so-called scope marking ((4)) construction (Dayal in particular has written much on this).
- Why a finite CP-complement must appear post-verbally.

The *wh*-word **cannot** take matrix scope if it is embedded.

(3) ravi jan-ta th-a
Ravi.M.Nom know-Impf.M.Sg be.Past-M.Sg

[ke sita=ne dhyan=se kis=ko dekh-a th-a]
that Sita.F=Erg carefully who.Obl=Acc see-Perf.M.Sg be.Past-M.Sg
'Ravi used to know who Sita had looked at carefully'
*'Who did Ravi used to know Sita had looked at carefully?'

Better in the present tense in English: Who does Ravi know that Sita had looked at carefully?

Why is this fascinating?

 In LF-based approaches, the wh-word is assumed to have to move to a position where it can act as an operator (usually SpecCP) — classic example: English overt wh-movement.

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- Since the wh-word in Urdu/Hindi can stay in situ, LF-based approaches have to assume that the wh-word undergoes covert movement to the appropriate operator position.
- However, if covert movement is in principle possible, then what prevents it from applying in (3)?
- Won't go into this here, see cited articles for various solutions, Mycock (2006) for possible solutions within LFG.

Scope Marking Constructions

There are ways of getting matrix scope for embedded wh-words:

- Wh-word appears in matrix clause ("movement")
- So-called scope marking construction ((4))
- (4) ravi kya jan-ta t^h-a
 Ravi.M.Nom what.Nom know-Impf.M.Sg be.Past-M.Sg

 [ke sita=ne d^hyan=se kıs=ko dek^h-a t^h-a]
 that Sita.F=Erg carefully who.Obl=Acc see-Perf.M.Sg be.Past-M.Sg
 'Who did Ravi used to know Sita had looked at carefully?'
 Lit.: 'What did Ravi used to know, who had Sita looked at carefully?'

Scope Marking Constructions

More natural sounding type of example that is usually cited:

(5) ravi kya jan-ta hε Ravi.M.Nom what.Nom know-Impf.M.Sg be.Pres.3.Sg [ke sita kıs=ko pasand kar-ti hε] that Sita.F who.Obl=Acc liking do-Impf.F.Sg be.Pres.3.Sg 'Who does Ravi know Sita likes?' Lit.: 'What does Ravi know, who does Sita like?'

Again, I will not deal with this construction any further, see already cited literature for various approaches and Mycock (2006) for a related analysis within LEG.

Core Data and Taking Stock

The core set of data for this talk is in (6).

```
(6) a.
        sita=ne d<sup>h</sup>yan=se kıs=ko dek<sup>h</sup>-a t<sup>h</sup>-a?
        Sita.F=Erg carefully who.Obl=Acc see-Perf.M.Sg be.Past-M.Sg
        'Who had Sita looked at carefully?'
     h.
        sita=ne d<sup>h</sup>van=se dek<sup>h</sup>-a t<sup>h</sup>-a kıs=ko?
        Sita.F=Erg carefully see-Perf.M.Sg be.Past-M.Sg who.Obl=Acc
        'Sita had looked at carefully at who?'
                                                                         (echo question)
     c.
        sita=ne d<sup>h</sup>yan=se dek<sup>h</sup>-a kıs=ko t<sup>h</sup>-a?
        Sita.F=Erg carefully see-Perf.M.Sg who.Obl=Acc be.Past-M.Sg
        Reading 1: 'Who had Sita really looked at carefully?' (rhetorical question)
        (i.e., she had not looked at anybody carefully)
```

Note: (6c) can also be an information-seeking question, though with different emphasis in comparison to (6a) (R. Bhatt, p.c. May 2012)

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Core Data and Taking Stock

The data is not new:

- The echo question interpretation was first noticed by Mahajan (1997).
- The order in (6c) was first noticed by Bhatt and Dayal (2007), though not its rhetorical question meaning (due to Ghulam Raza, p.c. May 2012).
- Recent analyses include Bhatt and Dayal (2007), Manetta (2012).

Core Data and Taking Stock

But the analyses proposed for the data so far have **movement** on the brain.

- I think this is because the overall treatment of wh-questions is so movement-oriented (cf. the assumed interaction of covert movment at LF and matrix wh-scope, examples (4)–(5)).
- This overshadows the fact that there is a clear pragmatic component that is playing a role in determining the interpretation of the wh-words in the different positions in a clause.

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- If one has looked at how i-structure works in Urdu/Hindi, it seems blindingly obvious that i-structure considerations play a large role.
- A theory like LFG, where different types of linguistic information are represented by means of different mutually constraining projections, has the advantage of removing movement as a distracting factor on the way to an insightful explanation.
- For example, the information-structural component is explicitly noted by Manetta (2012), but she draws different (and to me surprising) architectural consequences, which for her naturally have to involve movement.

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- Remind everybody how nice and complex LFG architecture has become.
- Work through the previous movement-based analyses of the core data to show how much work has been done to clear away theoretical distractions created by assumptions about movement.
- Present the state-of-the-art (Manetta 2012): basically encoding movement and question interpretation triggers in the lexicon (this means that a wh-word becomes multiply ambiguous).
- Present alternative analysis integrating Butt and King's (1997) i-structure analysis of Urdu/Hindi.

LFG's Projections

Over the years, more projections than the original core c-structure, f-structure and s(emantic)-structure have been argued for:

- a(rgument)-structure: place for thematic roles and information about predicate composition (complex predicates)
- i(nformation)-structure: place for information structural components (inspired mainly by Vallduví 1992).
- p(rosodic)-structure: place for intonational and prosodic information (Butt and King 1998, Mycock 2006).

Grammar Interfaces

- The precise relationship of the various projections to one another is still the subject of debate.
- Example: The prosody-syntax interface (Mycock 2006, Bögel et al. 2009, 2010, Dalrymple and Mycock 2011).
- This is good since it leads to a willingness to explore the interaction of information along the various dimensions of grammar.
- An understanding of the various dimensions of grammar is imperative for an understanding of how questions work.

Movement Analyses — Mahajan

- Mahajan (1990) was concerned with scrambling in Hindi.
- Wh-movement (or the lack of it) was one of various topics covered, but it was all about wh-words moving to the left.
- Mahajan (1997) took up wh-words found on the right ((7)).

Movement Analyses — Mahajan 1997

- Mahajan assumes an anti-symmetric approach to Hindi (Kayne 1994).
- This means that the basic underlying word order for Hindi/Urdu is taken to be SVO (and not SOV).
- This in turn means that Mahajan has to assume massive leftward movement to get a *wh*-word on the right periphery as in (7).
- This is illustrated on the next slide (based on Bhatt and Dayal 2007:296).

(8) a. Start with: [V DO]

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- (10) a. Start with: [V DO]
 - b. DO moves to specifier of $Arg_o \longrightarrow [DO_j [t_j V]]$
 - c. Subject (S), then Aux are merged \longrightarrow [Aux [S [DO_i [t_i V]]]]

- (11) a. Start with: [V DO]
 - b. DO moves to specifier of $\operatorname{Arg}_o \longrightarrow [\operatorname{DO}_j[\operatorname{t}_j \operatorname{V}]]$
 - c. Subject (S), then Aux are merged \longrightarrow [Aux [S [DO $_j$ [t $_j$ V]]]]
 - d. Subject moves to Spec,Aux \longrightarrow [S_i Aux [t_i [DO_i [t_i V]]]]

- (12) a. Start with: [V DO]
 - b. DO moves to specifier of $Arg_o \longrightarrow [DO_j [t_j V]]$
 - c. Subject (S), then Aux are merged \longrightarrow [Aux [S [DO_j [t_j V]]]]
 - d. Subject moves to Spec,Aux \longrightarrow [S_i Aux [t_i [DO_i [t_i V]]]]
 - e. DO moves to a position above the subject \longrightarrow [DO; [S; Aux [t; [t; V]]]]]

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 - d. Subject moves to Spec, Aux \longrightarrow [S_i Aux [t_i [DO_j [t_j V]]]]
 - e. DO moves to a position above the subject \longrightarrow [DO; [S; Aux [t; [t; V]]]]]
 - f. Aux moves to a higher head \longrightarrow [Aux_k [DO_i [S_i t_k [t_i [t_i [t_i V]]]]]]

- (14) a. Start with: [V DO]
 - b. DO moves to specifier of $Arg_o \longrightarrow [DO_j [t_j V]]$
 - c. Subject (S), then Aux are merged \longrightarrow [Aux [S [DO_j [t_j V]]]]
 - d. Subject moves to Spec, Aux \longrightarrow [S_i Aux [t_i [DO_j [t_j V]]]]
 - e. DO moves to a position above the subject \longrightarrow [DO_i [S_i Aux [t_i [t_j [t_j V]]]]]
 - f. Aux moves to a higher head \longrightarrow [Aux_k [DO_i [S_i t_k [t_i [t_i V]]]]]]
 - g. The bold-faced remnant is fronted \longrightarrow
 - $[[\mathbf{S}_i \ \mathbf{t}_k \ [\mathbf{t}_i \ [\mathbf{t}_j \ [\mathbf{t}_j \ \mathbf{V}]]]]][\mathsf{Aux}_k \ [\mathsf{DO}_j \]]$

- (15) a. Start with: [V DO]
 - b. DO moves to specifier of $Arg_o \longrightarrow [DO_i [t_i V]]$
 - c. Subject (S), then Aux are merged \longrightarrow [Aux [S [DO_j [t_j V]]]]
 - d. Subject moves to Spec,Aux \longrightarrow [S_i Aux [t_i [DO_i [t_i V]]]]
 - e. DO moves to a position above the subject \longrightarrow [DO; [S; Aux [t; [t; V]]]]]
 - f. Aux moves to a higher head \longrightarrow

$$[\mathsf{Aux}_k \; [\mathsf{DO}_j \; [\mathbf{S}_i \; \mathbf{t}_k \; [\mathbf{t}_i \; [\mathbf{t}_j \; [\mathbf{t}_j \; \mathbf{V}]]]]]]$$

g. The bold-faced remnant is fronted \longrightarrow

$$[[S_i t_k [t_i [t_j [t_j V]]]]][Aux_k [DO_j]]$$

 h. "(certain traces and many functional heads are suppressed for readability)" (Bhatt and Dayal 2007:296)

- Bhatt and Dayal argue that Mahajan's (1997) analysis does not produce the right results in terms of scope of the *wh*-word.
- There is no explanation for why the post-verbal *wh*-word is not interpretable as a normal question.
- Furthermore, unnatural assumptions need to made to allow for the placement of the *wh*-word between the verb and the auxiliary.

(i.e., she had not looked at anybody carefully)

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- Leftward movement of DPs is allowed to specifier or adjoined positions.
- Verbs can optionally move to an aspectual head.
- Rightward movement is restricted to verbal projections (VPs).
- Question formation in Hindi/Urdu involves covert movement at LF but can only move if in relevant domain.

Explanation for Echo-Question Effect:

Normal WH Interpretation:

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- Hindi/Urdu is back to being an SOV language.
- There are many less movements involved in the analysis.
- The scope facts appear to fall out of independently motivated constraints/movements.

• (25) in fact does not have a normal question interpretation, contrary to what is assumed by BD.

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- (26) in fact does not have a normal question interpretation, contrary to what is assumed by BD.
- Some of the movements appear unmotivated. I.e., "short distance left-ward topicalization of the verb" used to get [Subj V DO-wh Aux].

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- (27) in fact does not have a normal question interpretation, contrary to what is assumed by BD.
- Some of the movements appear unmotivated. I.e., "short distance left-ward topicalization of the verb" used to get [Subj V DO-wh Aux].
- Despite using topicalization as a reason for movement, no awareness that
 i-structural information may play a role in general and should be integrated
 into the analysis.

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- The Remnant-VP approach does not cover enough empirical ground.
- Instead, one should return to a notion of scrambling.
- Scrambling can be both leftwards and rightwards.
- Reasons for scrambling:
 - probe-goal relationships (i.e., certain features motivate scrambling)
 - Some features that can trigger scrambling: EPP, Q(uestion), wh, E(cho)

- Manetta refers to some existing work on information structure of Urdu/Hindi (Gambhir 1981, Butt and King 1996, Dayal 2003) and concludes:
 - Topic/Focus result of leftward scrambling
 - Backgrounded/Old Information result of rightward scrambling
- Integrates this into her analysis via features on lexical items.
 - An echo reading is taken to be connected to old information status of the wh-word.
 - So wh-word in postverbal position carries an E(cho) feature.

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- The differing feature specifications (u(ninterpretable) or i(nterpretable)) lead to different movements (via probe-goal relations).

Regular <i>wh</i> -word	Echo <i>wh</i> -word
[<i>i</i> wh]	[<i>i</i> wh]
[uQ]	[<i>u</i> E]

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• The echo interpretation is assumed to be provided by a C head which introduces an *echo operator* as defined in Dayal (1996:125) via the feature [*i*E].

- Scrambling has been reintroduced as a useful notion, simplifying overall assumptions about movement.
- Information-structural considerations are explicitly recognized as playing a systematic role.

- Movement (including scrambling) is now feature-driven.
- Features are specified on lexical items and on nodes in the syntactic tree.

- Manetta's approach would seem to locate the variation in pragmatic readings squarely in the lexicon.
- This is bound to lead to massive lexical ambiguity.
- Something that is a syntactic/positional effect is being encoded via features attached to lexical items.
- There is no truly systematic incorporation of the insight that information-structural factors play a role in the placement and interpretation of wh-words.

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- Particular analysis of i-structure proposed in Butt and King (1997).
- LFG architecture which assumes that information at c-structure, i-structure, p-structure and s-structure interacts.
 - That is, questions are a quintessential **interface** phenomenon.
 - Any analysis concentrating almost exclusively on a syntactic analysis will fail to do justice to the full range of facts and possibilities.

Urdu/Hindi Information Structure

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- The correlation of a rhetorical question interpretation with the placement of a wh-word within the verbal complex is more interesting:
 - BK's theory of Urdu/Hindi information structure has nothing to say about positions within the verbal complex
 - The structure of the Urdu/Hindi verbal complex itself is not as yet well-understood (by anybody).

The Echo Question

- At c-structure NPs can be placed freely anywhere in the clause (leading to the effect of Urdu/Hindi as a free word order language).
- However, certain positions/areas (cf. German's topological fields)
 correlate with certain i-structural notions (see table on previous slide).
- Postverbal NPs tend to be unstressed and have falling intonation the position is correlated with known/old information that is not prominent.

Analysis of Postverbal Echo Question:

When a *wh*-word appears post-verbally, it cannot be interpreted as a typical information-seeking question, but receives an echo-question interpretation.

The Rhetorical Question

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- (29) is apparently ambiguous between a rhetorical (did she really actually look at anybody?) and an information-seeking meaning.
- However, (29) differs in pragmatic import from the version where the wh-word is in preverbal focus position.
- It is also correlated with contrastive type stress on the wh-word.
- In the information-seeking reading, it is a more emphatic question (but tell me now, WHO did she look at carefully?)

The Rhetorical Question

- Understand intonational patterns in relation with different types of questions.
- Understand the pragmatics of the construction more deeply.

Proposal:

In addition to the preverbal focus position, there is another postverbal focus position within the verbal complex which is used for contrastive focus (cf. the situation in Romance; Zubizarreta 1998, Samek-Lodovici 2005).

Wh-words and the Urdu Verbal Complex

- fairly templatic in nature
- difficult to comprehend because different kinds of complex predicates interact with each other, with the passive auxiliary and with different kinds of aspectual and temporal auxiliaries.

Wh-words and the Urdu Verbal Complex

- The Answer seems to be no.
- In (30) the only felicitous place for the *wh*-word is right after the main verb.

Proposal:

In addition to the preverbal focus position, there is another focus position which is to the right of the verb (main or light) and which is used for contrastive focus (cf. the situation in Romance; Zubizarreta 1998, Samek-Lodovici 2005).

Discussion

 The analysis of the echo question presented here is essentially along the lines of Manetta.

• Differences:

- Manetta locates the trigger for echo question interpretation in the lexicon.
- Presumably she would have to do the same for the rhetorical question (right now she treats it as a normal information-seeking question).
- Even for a lexicalist theory like LFG, this would appear to be the wrong appraoch.
- The analysis here instead makes use of a general structural understanding of how information-structure is encoded positionally.
- Given this, one can begin to understand how information structure interacts with question semantics to result in various different pragmatic interpretations.

Conclusion

- There is a lot more to be understood about how questions work in "wh-in-situ" "free word order" languages like Urdu/Hindi.
- Working within theories that assume movement alerts one to issues of scope and island effects.
- However, it also seems to have precluded a systematic investigation and integration of information-structural properties into the analyses.
- The assumption of a modular architecture of grammar in which syntax, semantics, pragmatics and intonation all interact in a well-defined manner would seem to have the following advantages:
 - Awareness of the various modules of grammar.
 - Less chance of giving short shrift to one module over another.
 - Clearer understanding of phenomenon at hand.
 - Simpler overall analysis.



Acknowledgements

References I

References II