EXPLORATORY INVESTIGATION

Question Intonation Patterns in A Real-life Conversation And in Textbook Dialogs
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Introduction
This paper provides a comparison of question intonation patterns in authentic conversations and those taught in textbook dialogs. The analysis shows that intonation patterns can be influenced by the action that the question is performing and what context it occurs in rather than by its syntactic structure alone. The findings can assist teachers in providing students with more functional information about English questions.

The paper aims to answer two main questions:
1. How is intonation used in various kinds of questions in real-life conversation?
2. What are the differences between intonation of questions used in real-life and those taught by dialogs in textbooks?

To answer the above questions, I recorded natural conversations among three participants, a woman and her two nephews in Honolulu, Hawaii in 2011. Their conversations took place during homework time in the dining room and kitchen. The participants are American-Vietnamese; the woman came to the US as an adult and speaks English as a second language while the two boys were born in the US and speak English as native speakers.

I found four types of questions that the participants often used during their conversation: Wh-questions, Yes/No questions, Statement as questions and Open/Closed-choice alternative questions (Or-questions). For example:
(1) **Wh-**question: What’s the hair length behind of my hair?
(2) **Yes/No** question: Can I make up a nick name?
(3) Statement as question: Blick?
(4) Open/Close-choice alternative: Is that a spelling or what?

The analysis of each question is based on the whole sequence that is the context of the question. After identifying the questions in the data, I used Praat (Boersma & Weenink, 2012), a software for phonetic analysis, to trace the intonation contours of those questions. The questions’ intonation patterns are described below.

**Wh-Questions**

Most Wh-questions have the same intonation of rising in the prominent syllable and falling in the final syllable of the utterance (Excerpts 1, 2 and Figures 1, 2).

Excerpt 1. Falling Wh-Question 1
30 R: =what’s the hair’s length >behind of< my hair.
31 (.)
32 C: [huh?]
33 W: [hair]’s length. that’s yours just like. five inches.

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Figure 1. "what's the hair’s length >behind of< my hair.

Excerpt 2. Falling Wh-Question 2
42 C: what do you mean [a nick name.
43 W: [yah? you can make it up?
44 (0.7)

However, I also found Wh QUESTions with rising final intonation. These tend to communicate the speakers’ attitude or emotion. For example, in Excerpt 3, when R asks ‘[(↑>what are you< doing that FOR::?]’, with a high, prolong and rising pitch at the of the question (Figure 3), he was also conveying an angry and accusing attitude toward his brother.

Excerpt 3. Rising Wh-Question 1
11 R: [(↑>what are you< doing that FOR::? and you played outside: 12 and you told >mommy that< you finished.
13 (stare at W and speak with angry voice))
14 (3.0)

Figure 3. ↑>what are you< doing that FOR::?
In another example, the rising intonation of the Wh-question (Figure 4) is a greeting formula that the speaker is recreating to see how the new nickname they found (Raiden) might work (Excerpt 4, line 92).

Excerpt 4. Rising Wh-Question 2
67 (1.0) 68 C: okay. let’s me [see 69 R: [I have NO nick name.= 70 W: =>ya [can< CALL you 71 C: [in:: work sheet:= 72 R: =Blick?= 73 C: =>is it< the one?= 74 W: =uhm huh> (1.7) Rai 75 (0.2) 76 R: what’s the Rai. 77 (0.5) 78 W: no >wa-wait< ↑ΨRaiden ↑ΨRaiden= 79 R: =what’s the word. 80 (). 81 W: Raiden.= 82 R: =>how ya spell< ↑ΨRaiden. 83 (0.2) 84 W: R A I D E N= 85 R: =R what?= 86 W: =A I [d e n 87 R: [A I what?= 88 W: =D E N 89 (0.7) 90 R: d e n 91 (1.5) 92 W: w(hs)hat’s up? Raiden? 93 (1.0) 94 R: so is it? R A I? 95 (0.3) 96 W: Ψyeah r a i 97 (1.8) 98 R: and: okay I’m done 99 (1.3)

Figure 4. “w(hs)hat’s up? Raiden?”

Interestingly, in the real-life conversation I recorded, people sometimes ask a short wh-question such as “what i- ↑which one.=” (Excerpt 5, lines 8) or only one word “=when.” (Excerpt 6, line 132) with falling pitch at the end (Figures 5 & 6).
Excerpt 5. short Wh-Question 1
1  C: let’s me see. five sentences. w w 5 c: what? >is it.<
2  (0.7)
3  W: where? ↑ y ↓ y let’s me see.<
4  ((W opens his book, turns the pages to find his homework))
5  (4.0)
6  W: five c.
7  (5.0)
8  C: what i. ↑ which one.=
9  W: =five C

Figure 5. what i. ↑ which one.=

Excerpt 6. short Wh-Question 2
126 C: where is the spelling test. uh.=
127 W: =the writing y test?
128 (.)
129 C: ↓ y yeah
130 (0.7)
131 W: she never bring this one yet.=
132 C: =when.

Figure 6. =when.

Or Questions
In the data I collected, two alternative questions have falling intonation at the end (Excerpt 7). The questions at line 12 ‘c? or e:’ and line 24 ‘is that a spelling? or, what.’ have rising pitch for the first choice ‘c?’ , ‘spelling?’ and then falling pitch for the last choice ‘e:.’ , ‘what’ (Figures 7 and 8).
Excerpt 7. Or Question 1
8 C: what i- [which] one.=
9 W: five C
10 ((W shows C his homework))
11 (0.2)
12 C: or: [↑what ↑↓LETTER.
13 W: [↑c c: ↑c c: ↑c c: are ALL there.]

Figure 7. or:

Excerpt 8. Or Question 2
24 C: is that a spelling? or, what.
25 (.)
26 R: my- my note. >supposed all about me<=

Figure 8. is that a spelling? or, what.

Yes/ No Questions
Yes/ no questions frequently take a falling and then rising intonation pattern. However, in the real-life conversation I collected, yes/ no questions are sometimes produced with the falling pitch at the end of the question. The questions in lines 1 (Excerpt 9), 23 (Excerpt 10), and 42 (Excerpt 11) all have falling pitch contour at the end (Figures 9-12). Perhaps the speaker uses the falling intonation in these yes/ no questions because he/ she already knows the answer and wants to check with the recipient. For example, in the question `do ya. have any homework today.' and `do ya< have to sign on that.' speaker C already knows that everyday her nephew has homework and needs an adult’s signature on the paper, so her question is to confirm the information.
Excerpt 9. Yes/ No Question 1
1   C: >do ya.< have any home↑work today.
2   ((stand behind W and ask))
3   (1.0)
4   W: huh?

Figure 9. >do ya.< have any home↑work today.

Excerpt 10. Yes/ No Question 2
18  C: =ok? bring the-the homework and do it.
19   ((R shakes his heads and keep doing his homework)
20   (0.5)
21  W: I study a >couple [of these< more.]
22  R: [don’t tell it. more::hs]
23  C: >do ya< have to sign on that.
24  W: ↑↓yeah
25   (3.0)

Figure 10. >do ya< have to sign on that.

Excerpt 11. Yes/ No Question 3
40  R: [can I? make up. a NICK name?]
41   (1.0)
42  C: what do you mean [a nick name.
43  W: [yah? you can make it up?
44   (0.7)
what do you mean a nick name.

Statement As Questions
Some statements are produced as questions with rising intonation at the end of the sentence. In this kind of question, the intonation plays an important role to help the listener distinguish the difference between a statement and a question. In my data, the utterances in lines 64, 72, 127 (Excerpt 12) all have the rising intonation at the end of the sentence (Figures 13-15).

Excerpt 12. Statement as questions 1
64 C: what is today. the twenty?
65 (.)
66 W: &\textup{yeah}
67 (1.0)

Excerpt 13. Statement as questions 2
69 R: \textup{[I have NO nick name.]}=
70 W: =>ya \textup{[can< CALL you}
71 C: \textup{[in:: work sheet:=}
72 R: =Blick?=
73 C: =>is it< the one?=
74 W: =uhm huh> (1.7) Rai
75 (0.2)
Excerpt 14. Statement as questions 3
126 C: where is the spelling test. uh.=
127 W: =the writing y test?
128 (.)
129 C: ¥yeah
130 (0.7)
131 W: she never bring this one yet.=
132 C: =when.
133 (0.8)
134 W: about this week some may- some from this week
135 (0.7)
136 C: when >are you gonna< have this test again.
137 (0.8)
138 W: this: Friday?

I now turn to the intonation patterns for questions introduced in language textbooks. I examine an English textbook in Vietnam, Tieng Anh 9 [English 9] (2010) adopted by the Vietnamese Ministry of Education and Training, Connect 4 (2004) published by Cambridge University Express and New Interchange 3 (2004) published by Cambridge University Press. There are different types of questions as well as the question intonation patterns that are taught in these textbooks. It is taught that wh-question and or question have the low pitch on the final word. The questions are asked with rising-falling intonation. In contrast, yes/no question and statement as question are produced with high pitch placed on the last syllable, and the questions are produced with falling-rising intonation.
**Wh-questions:**

What are you going to do?  
*Tieng Anh 9* (2010, p. 52)

*How many friends?*  
*Connect 4* (2004, p. 42)

**Or questions:**

Would you like to have the party here, or somewhere else?  
*Connect 4* (2004, p. 42)

**Yes/No questions:**

Can you turn on the volume, Thuy?  
*Tieng Anh 9* (2010, p. 52)

Can I invite some other friends from school to the party, too?  
*Connect 4* (2004, p. 42)

Don’t you think you’ve accomplished quite a bit in the last few years?  
*New Interchange* (2004, p. 2)

**Statement as questions:**

Everyone?  
*Connect 4* (2004, p. 42)

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**Table 1**  
*Question Intonation Patterns in An Authentic Conversation And Textbook*

<table>
<thead>
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<th>Question Intonation Patterns</th>
<th>Authentic Conversation</th>
<th>Textbook</th>
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<td>Rising-Falling</td>
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<td></td>
<td>Falling-rising</td>
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<tr>
<td><em>Or questions</em> intonation patterns</td>
<td>Rising-Falling</td>
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</tr>
<tr>
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<tr>
<td><em>Statement as questions</em> intonation patterns</td>
<td>Terminal rising pitch</td>
<td>Terminal rising pitch</td>
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Table 1 summarizes the similarities and differences in question intonation patterns between the recorded authentic conversation and those taught in textbook dialogs. As the table shows, while the authentic conversation includes all of the intonation patterns presented in the textbook, there are two intonation patterns that are present in the
recorded conversation but are not taught in the textbook. Wh-questions in the real-life conversation may have a falling-rising contour in addition to the rising-falling contour presented in the textbook. Also, Yes/No-questions in the real-life conversation may have a terminal falling pitch contour, a pattern not presented in the textbook either.

Teaching implications
This preliminary analysis shows that there are differences between the question intonation patterns in authentic conversation and textbook materials. Mainly, what I have found is that in a real-life conversation, the intonation pattern can be influenced by what actions the question is performing, or what context it occurs in.

The results of this analysis show that textbook dialogs may not prepare students sufficiently for the wide range of intonational patterns that questions may take in English. Gilmore (2011) stated that students exposed to authentic input developed higher communicative competence compared to those exposed to only textbook materials (p. 23). Consequently, in teaching classroom language, teachers should not only use textbook materials but also provide authentic conversations such as transcripts, audio samples, or video clips to students. It is hoped that with more authentic materials, teachers can more effectively help improve students’ ability in language acquisition and communicative competence.

References

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