A Quantitative Comparison of Disfluencies Types between Native and Non-native English Speakers in Spontaneous Speech

By Jeffrey Wu
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Abstract

Disfluencies, parts of conversation which do not seem to add to the main content of the dialogue, have been studied in vastly different ways in the past few decades. This thesis investigates the occurrence of disfluencies in natural native and non-native English speech, and examines the types of disfluencies used among the two groups of speakers according to 1) the different syntactic positions in which they occur, and 2) the frequency of occurrence of the different types of disfluencies. Non-native and native speakers of English produce disfluencies in every day conversation, and this thesis investigates the hypothesis that it is impossible to distinguish between either group based on numbers and rates of disfluencies simply because all speakers generate comparable numbers of disfluencies of the same types.

The basic method used to substantiate this thesis consists of collecting data through conducting interviews with both non-native and native speakers of English. They participate in conversations ranging in numerous, arbitrary topics, and the data they provide are examined. The frequency of disfluencies are observed, and a few types of disfluency are studied by noting the syntactic properties of these disfluencies that are common to each of the conversations.

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1 I would like to thank Kari Swingle, Ed Kako, and Karla Gilbride for helping me with the process of writing this paper, and getting information for the investigation. I would also like to thank the participants (Yi Max Li, Yijun Crystal Li, Trang Pham, Michael Duffy, Keith Bentrup, and Catherine Clark).
1. Introduction

Disfluencies are not found in formal written language, except as a characterization of normal speech. They occur naturally in spontaneous conversation, and are manifested in utterances such as *um, ah, er*, or in words that may have concrete semantic content such as *like, actually, so*, etc. Other disfluencies include hesitations and pauses in speech, word repetition, and constituent stop and restart (constituents may be phrases or simply one word). According to Levelt 1989, these acts occur for many possible reasons. They may occur when a speaker doesn’t know what to say next, and must think about the following utterances. They may occur due to a grammatical error that a speaker has caught him/herself on too late. They may occur when a speaker wishes to rephrase an utterance for clarity. Disfluencies are commonly produced by all speakers of any language. They aren’t necessarily negative components of speech. As Pawley (2000:171) states, “this name [disfluencies] is unfortunate because it implies that all such incidents are involuntary and disruptive whereas there is reason to think that certain kinds are calculated and enhance the effectiveness of speech.”

There has been some work done on disfluencies in the past, but not much has been determined about syntactic properties of disfluencies. This paper examines the possibility of certain specific syntactic qualities specifically among different disfluencies, and looks to both native and non-native speakers for comparison. Speakers are of college-age, and come from a diversity of backgrounds. They are all students of Swarthmore College, Swarthmore, PA.

The following section details the types of common disfluencies that occur in spontaneous speech, specifically the ones that are examined in my investigation. Section
3 presents the various works that have been written about disfluencies in the past. This section covers findings of the negative aspects of disfluencies as well as the positive aspects. It also provides information on how anxiety has been found to affect disfluencies, and continues to describe work comparing non-native and native English speech. The investigation begins in section 4 where it is explained how data has been collected in this work to examine the differences in disfluencies between non-native versus native speakers of English at Swarthmore College. Section 5 provides the findings and results. The discussion of the major findings is presented in section 6. Problems with the analysis are also examined. Lastly, concluding remarks are found in section 7.

2 Types of disfluencies

There are several different types of disfluencies. filled pauses, unfilled pauses, hesitations, and repairs are the ones this paper will focus on. The next few sections will define and examine these different disfluencies. The descriptions and definitions are combinations of descriptions from several different sources including Schiffren 1987 and Riggenbach 2000.

2.1 Unfilled pauses

Unfilled pauses are simply periods of silence within spontaneous speech. Many pauses are not counted as disfluencies due to the fact that they occur naturally as a result of conversation flow. However, other pauses are disfluent because they occur in the middle of phrases and words. These pauses can be recognized as disfluencies because they confuse the listener or rather do not promote any comprehension or perhaps seem
out of place. The utterances in (1) show pauses in the form of "[]" which are disfluent whereas the data in (2) show pauses which this paper does not consider as disfluencies because they occur between conversational segments, which are generally clauses, and seem to occur naturally among the speaker's thought processes.

(1)  
   a. The [] man was odd
   b. The man [] was odd
   c. The man was [] odd
   d. The man was odd and [] he was snobby

(2)  
   a. [] The man was odd
   b. The man was odd [] he was snobby

2.2 Filled pauses

Filled pauses are any utterance that do not flow within the context of the conversation. The ums, uhs, hmms of spontaneous conversation are included in this set along with like, yeah, and well in certain environments. (3) shows examples of the non-word disfluencies. (4) shows the usage of words as disfluencies.

(3)  
   a. He was um sitting in the corner.
   b. Uh, that was weird.
   c. Where is er the screw?

(4)  
   a. She was sitting like on the bridge.
   b. She was well only a baby.
   c. I wonder if yeah she thinks about me.

The fact that the disfluencies above are indeed disfluencies can be tested by removing them from the sentences and reading them. Since there is no major difference in the information passed to the listener, it can be assumed that the words that have been removed are disfluencies which do not add any semantic content to the point at hand.

There are many times when words that are considered disfluencies are used in a non-disfluent context.
(5)  a. The man was like "hey, don't blame me."
b. Bats are like rats with wings.
c. I dunno why he said that.
d. Yeah, that's bizarre.

In (5a) and (5b), *like* is used in contexts where the semantic meaning comes from the actual lexical item. This is unlike *like* used in (4a) where it is used as a filler between utterances. This can be seen clearly by noting that the sentence makes complete sense when the *like* is removed in (4a), but doesn't make sense when it is removed from (5a). The *like* in (5b) can be replaced with a synonymous *similar to* to show how it is used in the sentence. (5c) and (5d) also show the words relating to the main theme of the sentence as opposed to (4b) and (4c). The *yeah* in (5c) shows agreement with the previous statement, and the *I dunno* in (5d) shows that the speaker is confused or has no idea about what is going on in the following spoken clause.

2.3 Units of ritualized speech

(6) shows units of ritualized speech(URSs), words and phrases that are repeated often, which are also considered disfluencies in this paper in certain speech environments. These sequences of words occur frequently together in conversation.

(6)  a. That's kind of strange.
b. I think, I dunno, that's funny
c. The word is I mean that she is loopy.

The phrases *kind of, I dunno,* and *I mean* are all URSs.

2.4 Repairs

Repairs are found in many different forms in spontaneous speech. The repairs analyzed in this work include repetition, false starts, and grammatical corrections.
2.41 Repetition

Repairs include repetition of exact syllables, words, or phrases. (7) provides examples of this phenomenon.

(7)  
  a. the, the people  
  b. they were having, they were having lunch  
  c. have, having

2.42 False starts

False starts are also viewed as repairs. These are due to a decision to rephrase because the speaker believes that the best way to produce the intended meaning was not made to begin with. (8) provides several examples of false starts.

(8)  
  a. I was coming, no, I was going to their house.  
  b. She is one ugly rather unattractive woman.  
  c. What are you how are you going to fix this?

2.43 Grammatical corrections

Grammatical corrections are also included as repairs as shown in (9)

(9)  
  a. his, her dog wants a cookie.  
  b. this these stories are old.  
  c. How can could he?

2.5 Hesitations

Hesitations are when words take more than a natural amount of time to produce as shown in (10). The word initial consonants or vowels are either being extended through time or the latter part of the words are produced later than usual. The slowing down of a syllable, in terms of rate of speech, can also be identified as a hesitation.

(10)  hhhhhhe was go-ing to the p-ark.
2.6 Differences between disfluencies and discourse markers

Discourse markers as defined by Schiffrin 1987 are "sequentially dependent elements which bracket units of talk". Disfluencies could be said to function similarly if they do indeed occur between utterances or clauses in spontaneous speech. How would they be considered different then?

First of all, the types of words that are considered discourse markers and those that are considered disfluencies are not all together the same. Discourse markers include words such as *but, although, well, oh*, etc. They are all words, and always occur in between units of talk. Disfluencies on the other hand, as already established, occur in many other forms. Even with this knowledge, there are still distinguishing factors between the two groups. Discourse markers function as units of cohesion and add structure to discourse. According to Schiffrin 1987, they are used mostly in front of an utterance. They also can contain semantic meaning. Schiffrin (1987) goes into detail about how certain discourse markers have different usages. For example, “well” is a marker of response, whereas “because” is a marker of cause and result. Disfluencies do not have any such regular usage in the contexts where they occur, and could well be removed from the discourse without having any even minor effect on the information being transferred. Therefore the differences between discourse markers and disfluencies are clear, and the disfluencies analyzed below are assuredly not confused with discourse markers.
3. Previous literature

There have been many articles published on disfluencies in the past two decades, not as many books on the subject. They deal with different aspects of disfluencies in speech including the negative versus the positive aspects of disfluencies, the social factors that contribute to disfluent speech, placement of disfluencies, and comparisons of frequency of disfluencies among different groups of people. Below are a few of these works examined briefly.

3.1 Negative aspects of disfluencies

Studies have been done to examine the negative effects of disfluencies in conversation. For example, Brennan 2001 looks at how comprehension is affected due to disfluencies placed in different parts of a set of instructions. Her work shows that there are differences in the degree of listener comprehension due to disfluencies in different syntactic and morphological positions. Disfluencies that occur mid-word, and that are corrected earlier create less comprehension problems than those that occur between words. For example the phrase in (11) causes less confusion than the directions in (12).

(11) pick up the yel-green box
(12) pick up the yellow the green box

3.2 Positive aspects of disfluencies

Other works have been written which point out the positive effects of disfluencies. Darot 1983 points out that hesitations and pauses, although they are often seen as manifestations of incompetence, actually serve an important linguistic purpose.
She claims that they provide time to produce “better lexical output, discourse coherence, and message content,” and should be seen as such and not be further stigmatized.

3.3 Syntax

Other works which relate more closely to this thesis deal with the placement of disfluencies within sentences. For example, Howell 2001 discovered that when speakers are conditioned to lessen the number of pauses with their speech, word repetition would occur on function words, and not at all on content words. The sentence in (13) shows what occurs more often than the sentence in (14).

(13) I was going to the store, and… and, I met Ron.
(14) I was going going to the store, and I met Ron.

Another work, Pawley 2000, states that “complex clauses (consisting of a matrix plus an embedded clause) will contain more core-internal disfluencies than will independent clauses of similar length. Thus an utterance like that in (15) is expected to have more disfluencies over (16) when spoken.

(15) Carla, who you um met the other day, was very anxious this morning.
(16) Carla was anxious this morning. You met her the other day.

Pearl 1980 provides data which gives proof to the claim that complexity affects the amount of disfluencies, at least in nonstuttering preschool children. This work found that overall, 30 children aged 3 and 4 produced many more disfluencies when trying to repeat the examiner on passive sentences than on active sentences.
3.4 Comparisons

There are articles that have been written which have studied the disfluencies among certain groups of people, whether they be a certain age, a specific gender, or native/non-native speakers of the language. Duchin 1986 compares the disfluency and rate characteristics between young adult, middle-aged, and older males. This study did not find differences in levels of disfluencies among each group. However another similar study by Yairi in 1972 found a significant difference in number of disfluencies between the age groups studied. Instead of using middle aged males, preschool children were studied, and no distinction was made in regards to gender. The results showed that the older participants and preschool children had much greater amounts of disfluencies than the young adult group. These differences might have been due to the specific ages of the speakers in each study as well as the fact that different sexes were examined. Even with these features in mind, it is clear that much more work must be done on disfluencies to discover any conclusive properties.

3.5 Anxiety

Another apparent conflict in study results occurred with respect to the effects of anxiety and levels of disfluencies. One study, Lalljee 1975, looks at disfluencies or what he called Units of Ritualized Speech(URSs). The URSs are disfluencies that are words and phrases that are repeated often such as I mean, in fact, sort of, etc. The interviews that were carried out supported the claim that the usage of these words and phrases increases with speaker anxiety. However, another study, Broen 1972, supports the opposite hypothesis that disfluencies occur more in situations of less anxiety. The
interviews conducted in each work were different in setup. Broen 1972 provided
different rooms for the speakers. One room consisted of them sitting alone; the other
consisted of them speaking to an audience through a TV camera and lights. The TV
situation was assumed to be that which the speaker viewed as more important. The
results showed that the speakers “were most disfluent in those situations they rated as
least important”. This conclusion is clearly different from the conclusion of the other
work. At this point, it seems that there are many different factors influencing the
production rates of disfluencies. This information is very important to the setup of my
own interviews. These factors must all be similar so as to not create major flaws in
comparison. However, a question exists as to how these factors are to be controlled for.

3.6 Non-native vs. native speakers

The articles which relate most closely to this paper investigates fluency among
non-native versus native speakers of English. These works are what I will attempt to
build on in my analysis.

Riggenbach 1991 analyzes the speech of fluent and non-fluent non-native English
speakers in hopes of finding specific features of fluent non-native speech. The work
finds a few different properties of fluent speakers versus non-fluent speakers. Non-fluent
speakers chunk disfluencies together more often and produce pauses which occur in
many places other than in between clauses. However quantitative analysis does not show
any significant differences in terms of the number of repairs and hesitations found among
fluent and non-fluent speakers.
Butler-Wall 1986 examines the differences in frequency of disfluencies between native and non-native discourse through interviews with non-native speaker and native speaker dyads. Her study involved many more participants than Riggenbach 1991, using 24 college students versus the 6 in the other study. However, the results also show no significant distinctions in frequency of disfluencies among the different groups of speakers. I attempt to further the arguments found in the works of Riggenbach 1991 and Butler-Wall 1986 by showing that there are no significant differences in the number of disfluencies found between non-native and native English speakers, but also that there are no major differences in the general ratio of the different types of disfluencies between the two groups. Also, by examining the syntactic properties of the disfluencies found in the speech of the native speakers, and comparing them to the speech of the non-native speakers, I hope to show that the usage of disfluencies among the non-native speakers is no different syntactically speaking.

4. The investigation

4.1 Research questions

Data is collected to examine the differences in disfluencies between non-native and native speaker of English, and to examine the syntactic properties of specific disfluencies found among all speakers. The specific questions addressed are as follows:

i. Are there differences with respect to the frequency of disfluencies used between non-native and native speakers of English?
ii. Are the frequencies of the different types of disfluencies found in non-native English speech proportional to the ones found in native English speech? If not, how are the numbers different? Are certain types of disfluencies used more frequently than others with respect to the two groups?

iii. Where, syntactically, do disfluencies occur most frequently in native speech? How does non-native speech compare?

4.2 Hypothesis

I hope to show that there are no generalized differences between the two groups with respect to frequency of disfluencies used. In other words, I expect that there are no common features that pertain to each group in terms of the how often disfluencies are found. I also expect to find that the proportion of each type of disfluency found in each group are similar. For instance, I do not expect to find that the amount of repairs which compose a certain percentage of disfluencies found in native speech differs significantly to the percentage in non-native speech. In terms of syntactic properties, I hypothesize that native speakers and non-native speakers place their disfluencies in similar syntactic positions, which are before phrases.

4.3 Interview set-up

Six people are interviewed in total. The interviews are conducted on both non-native and native speakers, students and alum of Swarthmore College; Three interviewees are native speakers of English and three interviews are non-native speakers. Interviews consist of either one or two interviewees, and the duration of the interviews range
between 20 and 60 minutes. A ten minute portion taken from the latter part of these interviews are then transcribed fully with all disfluencies noted including pauses, hesitations, and word restarts. The latter part of the interviews are examined instead of the other parts because I assume that this is when the interviewees are most comfortable and relaxed.

The topics of the interview vary greatly. There is no intended focus for the interviews except to have the speakers converse in the way they feel most comfortable. Topics range from current events and politics, to life at Swarthmore, to personal aspirations and opinions on life. A warm up session five to ten minutes is conducted to allow the speakers to become more comfortable with the interview setup, and with the other participant if present. This warm up period is not transcribed, as the focus of the interviews is to record naturally occurring conversation, not interview dialogue riddled with anxiety. However, it is impossible to control for anxiety levels. Some people are more anxious than others, and having a microphone around notably makes some people nervous.

4.4 Participants

There are six participants in total. Their names have not been changed, and their permission is given before they are interviewed. Their ages range from eighteen to twenty three. Their native countries include China, Vietnam, and the United States.

Max is a 21 year old student who has come to Swarthmore from Shanghai to study. He has only been in the states for 2 months before his interview. He has made trips to the United States in the past. He plans on staying in the country until he finishes...
graduate school. He started learning English in grade school. He maintains contact with his Chinese friends and family daily.

Crystal is an 18 year old student from Shanghai. This is her first time in the United States, and she has only been here for 2 months. She also plans to stay in the country for 8 years and then return to Shanghai. She started learning English in grade school. Her family and friends are communicated with daily either through the phone or email.

Trang is a 23 year old Vietnamese alum. She graduated from Swarthmore College in the class of 2001. She double majored in Political Science and Economics, and minored in English. She immigrated from Vietnam to Reading, Pennsylvania when she was four years old. She started learning English in kindergarten, and is now fluent in both English and Vietnamese. She still converses with her family in Vietnamese, although code switching occurs frequently in conversations with her brother.

Mike is a 22 year old alum. He has lived in the United States all of his life. He graduated from Swarthmore College with a major in Music. He currently works at WaWa, Inc while he composes music.

Keith is 22 years old and is also a member of Swarthmore College Class of 2001 where he majored in Biochemistry. He was born in Nashville, Tennessee, and currently lives in Wallingford, Pennsylvania where he runs his own computer consulting business. Trang is one of his two roommates.

Cat is a 19 year old student of Swarthmore College. She was born in Utah, and has lived in several areas in the United States. She is currently a sophomore at
Swarthmore and has not decided her major yet. She has been dating Keith for approximately one year.

4.5 Analysis

The recordings of the interviews are transcribed fully including pauses, hesitations, and partial words. Although it is not possible to be positive of what the speakers are attempting to say in terms of partial words, the interviews are transcribed as accurately as humanly possible. Pauses of less than 1.0 seconds in length are omitted unless they have disfluent properties, meaning they occur mid-utterance or detract from the conversation. This process is subjective and therefore may have flaws which are hopefully minimal.

The total number of words, not including disfluencies, are counted for each interview segment. Then the number of disfluencies are divided by the total number of words in the dialogue to determine the disfluency rate for each speaker. All disfluencies are examined more thoroughly as well, and similarities and dissimilarities are noted. The syntactic position of each disfluency, whether they are simple utterances, words, or pauses, are observed and logged. Any striking syntactic properties of all disfluencies are analyzed. The section below shows the results and significance of these results.

There are some cases where disfluencies occur within disfluencies. (16) shows such a case.

(16) I I think, I thought

The repeated "I" occurs in the corrected NP "I think". In these cases where there are clusters of disfluencies, each disfluency is counted separately even though another
study might consider the cluster as one total disfluency. Thus the example in (16) would have a total of 2 disfluencies, one from the repeated “I”, and one from the repaired “I think”.

The fluency of each participant can be analyzed in several ways for the comparison of disfluencies between nonnative and native speakers. The average lengths of fluent speech runs can be calculated. This is done by adding up all the words that occur together without the appearance of any disfluencies. The total number of words is then divided by the number of fluent speech runs found, and this number is the average length of fluent speech segments for the speaker. I opted not to do this not only because it takes a lot of effort, but also because it wouldn’t provide any information about the disfluencies at all.

Another way of determining fluency is by examining the frequency of filled pauses and unfilled pauses separately and together. This also allows us to note any similarities of usage between the unfilled and filled pauses.

The rate of speech for each speaker is not calculated because it was decided that this time consuming task does not seem to add any definitive information about disfluencies.

5. Results

The full transcriptions of the interviews are given in the Appendix. The table in (18) shows the number of disfluencies found for each speaker.
(18) Disfluencies found.

<table>
<thead>
<tr>
<th>DISFLUENCIES</th>
<th>NONNATIVE SPEAKERS</th>
<th>NATIVE SPEAKERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Crystal</td>
<td>Max</td>
</tr>
<tr>
<td>Total Disfluencies</td>
<td>169</td>
<td>65</td>
</tr>
<tr>
<td>Unfilled Pauses</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>Hesitations</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Filled Pauses</td>
<td>105</td>
<td>28</td>
</tr>
<tr>
<td>URSs</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>Repairs</td>
<td>18</td>
<td>31</td>
</tr>
<tr>
<td>Total Words(W)</td>
<td>620</td>
<td>368</td>
</tr>
<tr>
<td>Total D /Total W</td>
<td>27.26</td>
<td>17.66</td>
</tr>
</tbody>
</table>

The table provided in (19) breaks down the total disfluencies according to the percentages used of each type.

(19) Each disfluency type’s percentages

<table>
<thead>
<tr>
<th>DISFLUENCIES</th>
<th>NONNATIVE SPEAKERS</th>
<th>NATIVE SPEAKERS</th>
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</thead>
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<tr>
<td></td>
<td>Crystal</td>
<td>Max</td>
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<tr>
<td>Unfilled Pauses</td>
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<tr>
<td>Filled Pauses</td>
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<td>43.1</td>
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<tr>
<td>URSs</td>
<td>16.6</td>
<td>0.0</td>
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<tr>
<td>Repairs</td>
<td>10.7</td>
<td>47.7</td>
</tr>
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</table>

The table in (20) shows each disfluency and how often they occur in each different syntactic positions in the interviews.

(Note: L = Crystal Li, M = Max Li, P = Trang Pham, D = Mike Duffy, B = Keith Bentrup, C = Cat Clark. The first three columns contain the non-native speaker results whereas the last three columns contain the native speaker results.)
(20) Disfluencies divided into categories of syntactic position

<table>
<thead>
<tr>
<th>Disfluency</th>
<th>Preceding NP</th>
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<th></th>
<th></th>
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<td>Speaker</td>
<td>L</td>
<td>M</td>
<td>P</td>
<td>D</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Uh, um, etc</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>14</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Like</td>
<td>24</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>2</td>
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</tr>
<tr>
<td>I mean</td>
<td>6</td>
<td>0</td>
<td>1</td>
<td>2</td>
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<td>0</td>
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<td>M</td>
<td>P</td>
<td>D</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Uh, um, etc</td>
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<td>10</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<th></th>
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<th>Total</th>
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<td>M</td>
<td>P</td>
<td>D</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
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<td>0</td>
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<tr>
<td>Like</td>
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<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
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</tr>
<tr>
<td>I mean</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
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6. Discussion of the results

6.1 Problems with the results

There are many reasons for why the results might be skewed in some way. After reviewing the aspects of the interview process, several possible problems have been detected. First of all, although I tried to get the interviewees as comfortable as possible, some of the speakers may have been more comfortable than others simply due to my relationship with them and the environment of the interview.

6.11 Interpersonal relationships

I was familiar with all the speakers before the interviews took place. However, I have a closer friendship with Trang, Mike, Keith and Cat than Max and Crystal considering the length of time I have known each of them. The fact that the above four are closer to my age and class year than Max and Crystal, also may have an effect on how comfortable the speakers were with me as their interviewer. Being in college, and America for that matter for only a few months may have been more intimidating for them than I perceived as problematic.

Another issue in terms of interpersonal relationships is the fact that Crystal and Max are more acquaintances with each other than friends. This is unlike the other interview pair who have an intimate relationship with each other. It's generally accepted that people who know each other well tend to communicate better than people who aren't as comfortable or familiar with each other. Then there's the fact that Mike and Trang were interviewed alone which placed more pressure on them to speak then if they had a
partner interviewee to communicate with, bounce ideas off of, or even have some
downtime between periods of talking.

6.12 Environment

The interview settings also could have major repercussions. Crystal and Max, the
two Chinese speakers, were interviewed on an open, but isolated area of McCabe Library
at Swarthmore College, while Mike was interviewed in my dorm room, and Trang and
Keith were interviewed in their apartment in Wallingford. Cat was also interviewed in
Keith's bedroom which she is comfortable and quite familiar with.

I assume that Cat, Keith, and Trang were in the most convenient and comfortable
location for their interviews, while Mike was less comfortable, being in a relaxed, but
non-possessional territory. Crystal and Max were probably in the least comfortable
location unless of course they view the library as a home(which could possibly be the
case at Swarthmore).

Also, all interviewees held a microphone during their interviews except for Keith
and Cat. I used a different recording instrument which was placed in between them
during their interview. The microphone probably added more tension to the interviews.

It was apparent during the interviews that the non-native speakers all took the
interviews more seriously than the native speakers. The native speakers seemed very
relaxed during the process, and viewed it as a fun experience, whereas I subjectively saw
the non-native speakers as feeling more tense and eager to “do well”.
6.13 The possible effects.

All these factors could possibly have an impact on the results. However, I do not feel that any of these factors should have a serious effect on the types of disfluencies the speakers normally use, and how they use them. The frequency of disfluencies might have changed due to the anxiety, but as noted from the previous literature such as Lalljee 1975 and Broen 1972, it is not certain whether these levels increase or decrease due to anxiety. Therefore, I plan to continue with my discussion disregarding these factors, and their possible erroneous effects.

6.2 Discussion of Disfluency Rates

An examination of the tables (18) and (19) show that there are no significantly discernable differences between the native and non-native speakers. All of the speakers display disfluencies within their speech, and with only one exception have over a 10% disfluency rate in their interviews. Cat is the exception with a rate of only 3.76% disfluencies. However, if we compare the individual speakers, we see that Mike, who is a native speaker of English produced the greatest percentage of disfluencies at 29.67%. Crystal, one of the non-native speakers has a comparable amount at 27.26% which is a little lower, but not by much. Trang, a non-native speaker and Keith, a native speaker have quite similar disfluency rates at 10.20% and 11.70% respectively. The fact that Max, a non-native speaker has a medium level disfluency rate of 17.66, and Cat has a very low disfluency rate, pulls the results towards viewing the native speakers as overall having a lesser frequency of disfluencies within their speech than non-native speakers.
However, the data varies so greatly, that it is impossible to state that one group clearly uses less disfluencies than the other group.

In looking at the specific types of disfluencies, it is clear that most of the disfluencies which occur are either filled pauses or repairs. Hesitations are minimal, and pauses and URSs provide a small proportion of the disfluencies found.

Max has the greatest percentage usage of repairs. Crystal uses the greatest amount of URSs and filled pauses. Mike shows the greatest use of hesitations, and Trang is shown to use the most amount of unfilled pauses. It is interesting to note that the non-native speakers fulfill the greatest usage of each type of disfluency except for the hesitations. What does this say about non-native usage of disfluencies versus native usage? It seems as if the native speakers vary their usage of disfluencies whereas non-native speakers tend to have a disproportionate amount of certain disfluencies of one type as opposed to another. However, this is difficult to say considering the small amount of data due to the number of participants in this investigation. Even harder to figure out is why the proportions fall as they do. I will not delve further into this issue seemingly complex as it is.

6.3 Discussion of Syntactic Properties

The results for the syntactic analysis of the disfluencies are a little more interesting and conclusive than what has been found in terms of disfluency rates. Almost all of the disfluencies occurred between phrases. The data below all come from the transcriptions of the interviews, which can be found in the appendices. (21) through (24)
show the usage of the disfluency *like* preceding different phrase… a noun phrase in (21), a verb phrase in (22), an adjectival phrase in (23), and a prepositional phrase in (24).

(21) I wanna pursue like graduate studies here.
(22) I like spend an hour and a half everyday writing emails with my friends.
(23) It’s like so convenient.
(24) Sometime like during big vacations

The same situation occurs for all the other disfluencies, although some disfluencies such as the URS *you know* occur frequently at the end of utterances instead of preceding phrases. (25) shows this case from Trang’s interview.

(25) It’s not really as bad as before you know?

The only places where disfluencies did not precede a phrase were when the speaker was interrupted by another speaker, which I counted as being an end of an utterance. It is highly interesting to note that spoken disfluencies (as opposed to pauses) never occurred in the interviews between determiners and nouns, maintaining the feature that disfluencies precede phrases and do not occur in the middle of phrases. Although it seems intuitively naturally for someone to utter something like (26), it does not occur often enough to be recorded in the interview sessions for 6 different individuals.

(26) The um birds flew over the house.

All the speakers, both non-native and native shared the feature of placing their disfluencies in similar places preceding phrases.
8. Conclusion

The investigation of the frequency of disfluencies in non-native and native speakers has shown that there are no clear demarcations between the two groups. If we view each of the individuals who were interviewed as typical non-native and native speakers, and the frequency of their disfluencies as representative of the entire population of non-native and native speakers, it would be apparent that there are no features that one group shares which the other group does not. Each individual produced markedly different frequencies of disfluencies and had different proportions of each disfluency type. Therefore, no significant distinction can be determined between the groups.

Syntactically speaking, the groups shared the common feature of producing disfluencies in the beginning of phrases whether they are noun phrases, verb phrases, prepositional phrases, etc. This commonality was only disturbed when the speakers were interrupted, which points to some general pattern of placement of disfluencies in spontaneous speech.

Many possible reasons for why disfluencies occur in specific positions are available. It may be due to the internal thought processes of the speaker before the words are spoken, or how it makes sense to break up parts of discourse into separate units at the exact time of utterance. The enumerations of the possible frameworks, however, are not within the scope of this paper.

It might seem odd that non-native speakers of English have similar frequencies of disfluencies as native speakers. However, I should note that none of the non-native speakers were in the process of learning the language at either a beginning level or intermediate level. All of them were quite comfortable with using the language, so there
was no issue of processing time, whereas in other cases where the non-native speakers might be at a beginning learning level, more significant differences might have been found.

As a final note, a fascinating work, Cargile 1997, examines how non-native accents may hamper the comprehension of the listeners due to the attitude of the listener. The fact that my investigation as well as other works reviewed above, Butler-Walls 1986 and Riggenbach 1991, on non-native and native speaker have shown that there are no significant differences in frequency of disfluencies between the two groups add strength to Cargile’s claim that the issue of disfluency among non-native speakers is not the reason why listener comprehension is lower, but rather because the listener fails to put as much effort into the comprehension task as he/she would if the speaker did not have an accent. At least it can be said that frequencies of disfluencies among non-native speakers do not play a factor in causing lower listener comprehension.
Appendix A

(Note: disfluencies found have been underlined. They are linked to other non-disfluent words in order to make the process of word counting less difficult. The names of the participants are used in the transcriptions. However, I have changed the names of anyone referred to by the participants.)

Transcription of interview with Yi Max Li ’05 and Yijun Crystal Li ‘05:

F: UhI wanna pursue like graduate studies here[ ] and after that I prefer to work in Shanghai cuz I really like the city and the environment you know? well it's kind of still blossoming cuz the city is progressing and that you are progressing[ ] I feel that US is kind of in a boosting environment which is kind of inspiring. [ ] cuz here everything is so developed it's like[ ] yeah.

M: well I don't know ... so

F: And close to home

M: I also go to graduate school but when I come. When I go back. [ ] I’m not sure I will work in Shanghai all the times. If I don’t think it’s very good for a person to always stay in one city for during their whole life.

F: Well it’s for guys you know? like Well there’s a kind of Asian Chinese saying that good guys should like travel. I mean well they can they should like establish their own business or I mean future or whatever, but for girls they tend to stay close to home.

F: That is true. Well for me it’s a good thing. I definitely wanna like be. Cuz[ ] we are like the only child right and like I definitely wanna stay close to my parents and like
M: I'm also concerned about my family, I wish I could stay close to them but you cannot always move out and living out of shanghai for sometimes and then go back and then move.

F: But like for me, like 8 years is quite a long time to be away from home and, I guess there should be enough time for me to get used to the language and get used to independence totally independence life so I think that's probably enough for me. I mean cause it is adventurous to come here well, yeah, umhum.

M: um, it's not a good for this old people to move to a new place.

F: well, for them like . . . yeah.

M: they have the friends, China is different from united states. Here I have relatives they just moved from Boston to Houston . . . but like in China it's different.

F: yeah, it's like families are kind of far apart so like we are very traditional and like on those festivals we have well it's a kinda tradition to get together so it wouldn't be convenient if like my parents and I just lived far apart and whatever.

M: young people will move for the job. Just like in Shanghai there's a lot of people from outside of the province and the family their parents will move to Shanghai.

F: well, actually a problem is like people from other areas are kind of flooding into Shanghai seeking for job opportunities but seldom native Shanghai people go outside to other places.

F: well, yeah it is.

no, no actually. Cause it's like, well I keep track of things going on back at home everyday, so it, I don't feel too like I'm too separated and then I spend like an hour and a half everyday writing emails with my friends and family and in other way, I stay
in my Chinese world for like one hour and a half everyday so I don't think that I’ll be too

I mean changed too much too dramatical.

M: the way we think really different from the people who always in China. that's
why I should I decide to come back I just wanted new eye-opener.

F: yeah umm hm

F: whoa! . . . about what?

M: about sports.

F: what?

M: the sports

F: are you talking about the world cup? It's very important issue. 2002 Japan and
Korea.

M: yeah because they the first

F: i mean it's different issue

M: the world cup is soccer.

F: yeah, in Japan and Korea. it's jointly hosted by the two country. actually I am not
but like I do care. well I care for like

M: that's the only news she can grab from the web

F: no it is not but like this year cause of like very inspiring like the Chinese soccer team like
enter the world cup you know they've never done that before and they've been like
competing there over and over again for like . . . 44 years

M: Can you recognize all the players on the team?

F: I cannot recognize the player. I only care for the results. well it is game

M: she only she don't care about the game. she only care about the result
F: well to me all American people look the same.

M: actually here one thing I cannot stand is just I cannot watch the soccer game. There's no TV program about soccer.

F: yeah it's like everybody.

M: uh, to see the results is not enough. It doesn't mean anything. I want to see the game even the team lost, I will be satisfied. But ESPN reports soccer game but it's not in their own.

F: yeah it's like, uh, we have so many televised live matches about this going in Europe, so I mean before I came here I thought that US would be the center of information and communication and that actually the case here.

M: I think you wouldn't like if you were if you wouldn't like really.

F: well, I mean I probably wouldn't like the environment but I do miss city life.

M: That's because you are a foreigner. You are grow up in city.

F: I live in downtown area in Shanghai so it's so convenient and like 9 o'clock 10 o'clock it's the time when nightlife begins and here it's like five o'clock and everything is closed. Well it's like you can go shopping you can go to movies.

M: and the stores close at ten.

F: ten or ten thirty and sometimes during big vacations they kind of stay up till eleven thirty.

M: they will go to cafe.

F: yeah, never been there. I've never been abroad before I came here yeah. I mean yeah.
M: but you can't you haven't been to Virginia I've been San Francisco. 

uh yeah I think San Francisco is better than Philadelphia.

F: well San Francisco is kind of I mean people from everywhere it's like small world and I heard that you don't even have to use yeah.

M: but you know all the Chinese and actually um I think I decide to go to San Francisco before I went to Swarthmore because I want to practice my English. I think I have five days to practice my English but actually I speak Shanghainese for all the times in San Francisco. um yeah and all the TV program.

F: 30% I guess even a larger proportion. I heard that native Americans are sort of like minorities there.
Appendix B

Transcription of interview with Michael Duffy ’01:

yeah I dunno if you really want that on tape.

yeah he answered the door and uh he was in umargh I can't not think about it.

ok he was in[see now ] I’m holding the mike I’m hold the mike, and it's getting me[alright.

yeah he came to the door, and he was wearing a towel, and his hair was wet,

so it seemed like I thought he had just gotten out of the shower. naturally, souh, I was

just like um what are you you know what's going on. he's like oh you know, Jeff and

Trang went to Jeff’s suh you know we'll meet you there in a few minutes.

wellyeah see my first thought was he was giving this smile and he was like yeah we'll uh we'll meet you guys there in a little bit. and I thought he by we at first

I thought he meant him and Pedro. so I didn't uh make the connection. if I had known he

had meant him and cat I would have pretty much immediately realized what was going

on, but like I thought he meant him and Pedro, so I was standing there like an

idiot like going like oh oh they want me to go over there and then you guys will like

come over and meet us? I don't get it ok and you're in the shower? alright and then like, but

he keeps saying he kept saying yeah you know we'll meet you later. and so I was like wait a

minute, are he and Pedro messing around or something? and then I then I realized oh cat

must be over yeah yeah.

yeah yeah I read all four actually yeah

na, the four the the the like like the first one was pretty good and I really I really like the fourth one a lot. yeah like the fourth one like I was like really getting like wrapped up in
it like uh it was like my heart racing and stu- well not like racing like really like racing the other week but [yeah it was like really good stuff but] dunno I dunno know if it's like gonna bring back traumatic uh traumatic whatever [but] it's not like the movie really got me [worked upright, but maybe just like being reminded of the whole experience] no, uh I think it's being upright I dunno I dunno know if it's gonna bring back traumatic uh whatever [but] it's not like the movie really got me worked upright. but maybe just like being reminded of the whole experience [no, uh I think it's being upright I dunno I dunno know what uh I dunno I dunno what triggers it] no, uh I think it's being upright I dunno I dunno what triggers it. haven't seen the psychiatrist yet so I'd be interested in seeing what he says but the doctor said you know what triggers it and what causes it could be like completely subconscious and like [mean] there wasn't anything that I was immediately aware of that was causing it. yeah well I think that maybe there was a build of anxiety due to my sss messed up schedule. or you know being not seeing ehh yeah it's dunno it's just a real different lifestyle and maybe that was] yeah the summer was still like wild and crazy coll like I mean cuz I worked I worked in the day and I worked with all the people that I was hangin out with so it's like it was a real social environment and we would always get together at night and party and stuff so, but now it's like you know sleep during the day work at night never really see friends except for on my days off kind of it's a real real change. yeah it really does suck, that's why I'm quitting. yeah III think I you know as soon as possible if I get settled in another job and hand and everything I think I'll also wanna move into an apartment too. yeah heh that's not that may not happen II the person I was gonna live with I haven't really heard from them soum I'm wait I'm gonna wait maybe another week or two to see about that and then I'll probably just go ahead and start looking for apartments around here. I also no dunno who else is looking for apartments I know Armani was looking for Trang has an apartment. really? I could take Trang's spot. Ierare Pedro and Keith
looking for uh a third person? 266 that's not bad, especially since it's a nice space and all

quality apartment why? uh yeah no.
Appendix C

Transcription of interview with Trang Pham ‘01

um means that I suppose when I had signed my contract to work with Accenture at the end of last year I was told that my job would start in August and then I was told that it would start in November and now it's kind of pushed back to July 2002 and so that means for the while I'm a college graduated bum.

umi 've been spending a lot of time with my boyfriend. um also hanging out with my friends a lot. catching up on reading i said i'd always do but never did, mostly you know readings that were assigned in my college classes um and looking for a job in a nonprofit organization. and probably taking classes next semester too, business school courses in Philadelphia at Wharton.

um well I thought you know it wouldn't be a bad idea in the long run because I'm thinking of going and getting my MBA and if I choose to go into the corporate world it'll certainly be a plus. if I choose not to go into the corporate world and go to the nonprofit world, it'll still be a plus um because business school apparently now has very much geared towards people going into the public sector also um yeah.

In the short run or the long run?

um probably. i think so. i'd like to you know head an organization or be a major player in a very important organization

well that's why i'm making my money now. no seriously um i think some nonprofit positions pay well too and it just depends on what you do and where you go and i assume that if i choose to take a position that isn't paying too well, it'll have other
benefits, and at the very least I'll have a little bit of money stashed away from the time that I was a consultant and stuff.

Right now I'm living in Wallingford, it's right next to Swarthmore and I'm in an apartment with two of my friends next year, starting probably in February or so. I'm trying to move into Philadelphia and maybe just get a roommate apartment with one roommate and then I'll start my job in the summer and probably work there for at least a year in the Philadelphia area and perhaps they'll assign me to some crazy project in France or Hawaii or something. We hope.

Oh, I really liked life during Swarthmore, I think I'm ready to be out of Swarthmore and my life after Swarthmore right now is very chill, and I think it's probably mostly just because I don't have any pressing or urgent need to work or do anything in particular. Everything that I'm interested in doing I am doing now, and I'm being paid not to work so....

Well, I think the last movie I saw was that really bad one by Jet Li, and I was all excited to see the Jet Li movie, unfortunately it wasn't one of his best. The plot was a little thin, the action fighting was great, it was just sort of like a Nintendo game, and I wasn't really interested. It was very lighthearted and didn't require too much thinking.

I have been watching Sex and the City a lot. It's because my roommate Keith has been downloading a lot of the episodes off from Morpheus and yeah. It's really fun. Well, they're cute characters, they dress well, they're talking about topics that are relevant to our everyday life or at least our personal life. They're not always things that I would agree with but at least they're being brought forth. Well, sex is an important part of
everybody's life more or less [umyouknowtherearethings] it's nice to see[] comments that my friends would make being made on tv and it's it's much more real than a lot of[] characters [] that were written in the past about women, youknowcarrie and her friends are going through a lot of the same choices that my friends have been going through or are going through um and it's just nice to see those issues being discussed in a public forum i could tell you about the movie that i [] am being forced to see tonight. harry potter. so apparently my friend duffy really wants to see harry potter because he's read all the books, me on the other hand i've read none of them and while i would like to read[] some of the books, and also probably see the movie in the far future, i'm told it's a much better movie being seen after the book was read, so i probably won't understand it very much but being a good friend who's promised to go, i suppose i have to. i should. it's well i don't physically have to but i promised to the roommate situation sucks! well, it's not really as bad as before um[iouknowi'm living with two roommates and we have different ideas on what[] cleanliness should be and how much we can share. it was sortofstupid because in the beginning we had decided thatwewerenoneofthat we were not going to share our food or share[] youknow the[] grocery bill or anything like that and[] apparently some people have decided they can still sample[] and that that's ok.
Appendix D

Transcription of interview with Keith Bentrup ’01 and Catherine Clark ’04:

F: yeah, i watched that french movie amele

M: i saw shallow hal

F: fuck you

M: it was ok. i feel prompted[] to tell you more. well well now

F: why don't you wanna hear about the movie i watched?

M: nobody likes the french

F: fine, nobody likes you.

F: no i don't wanna tell you about it, ask him about the movie he saw.

M: it was the farrelly brothers, and uhit was kindacurious how they were doing it because uh so you know the premise right?

F: wait you get all that from the title.

M: he's hypnotized by uhanthony robbins[] to uh see the inner beautyum and uh he starts. right, so when he starts seeing this[]this one woman, he perceives her tobeliketo look like gweneth paltrow although she's really[ ] not and unattractive. right so at the end of the movie, heuhhe's un[]hypnotized and uhso you'rekindof wondering like uh oh how is he going to perceive. no it's curious becausesthey normally show her as cameron diaz and so

F: gweneth paltrow!

M: whatever.

F: he said that, he called me, he's like i saw this great movie[] with cameron diaz in it

M: they're the same person.
F: and i was like isn't gweneth paltrow in that movie and he kept calling her cameron diaz
M: whatever they're the exact same person.
F: no gweneth paltrow has more class.
M: cameron diaz has much more pep.
F: you just like her cuz she's shorter
M: how do you know she's shorter?
M: so anyways, you're you're kind of wondering if.
M: oh you don't wanna know the ending?
F: are you really gonna see it?
M: it's worth watching as long as you don't pay full price.
F: like you did?
M: well, we didn't want to wait in line for tickets and apparently they're still ticket checking they're now checking for child's tickets.
F: how did you hear that, who told you that?
M: uh pedro he said that they were checking
F: wha-what happened?
M: i don't know what happened.
F: well apparently he wasn't arrested so
M: well apparently not but like idunno, maybe he went back and they made him buy some more.
F: you don't wanna hear about my movie. i don't wanna talk about it.
F: no, i saw it at home, umi know it's playing in philly, it's not playing out here. it's about this french girl who is very antisocial. like she has this weird family it's kind of weird.

F: uhit's the guy who did delicatessen, delicatessen i don't know how to say it um and some other movies some pretty like famous movies for a french director you know um.

M: who wrote the script?

F: i have no idea. it was good. it was funny.

F: that's because i'm in a bad mood cuz he hates me. he started tickling me and then he wouldn't stop and then he sat on me. i couldn't breathe i almost died

M: i sat on you? i don't think i sat on you.

F: you laid on me and it was practically the same thing. but i coulda died.

M: so what upset you? the fact that you almost died?

F: no when i was a child my cat sat on me once and i got very scared cuz you reminded me of my cat

M: you have chocolate.

F: it's not chocolate, i'm not sloppy

F: we haven't broken up for a long time

M: yeah

F: it's better than pedro and suzy cuz we only fake break up they actually break up

F: that means we could be having even better sex? is that possible? we should ask pedro about that. no, well i say hi. he says hi. it's all good.

M: well.

F: there's the facilitator of this fabulous reconciliation.
M: what have i done? i haven't really done anything.

F: yeah that's why.

F: did you hear duffy might move in? when trang moves out, wait is trang really moving out?

F: where is she moving to?

M: the ville? why?

F: that's pathetic.

F: there's that advertisement on the board by ted goundie's office. have you seen that? there's an advertisement for someone to share an apartment with next semester but then keep the lease over the summer. i'm sure she could find someone to take it over the summer

M: wait so what's the difference between the ville and here?

M: so why are you trying to convince her to live at...

F: so then why doesn't she just stay here? does she not like you guys? it is pretty uncleanly. i think i'm gonna stop showering in your bathroom. it's kind of gross. the floor of your shower is gross. i'm not cleaning your apartment for you.

M: cat sheds.

F: i always shed

M: you're so messy.

F: it's just a small pile. look at your mess.

M: wait, what about that girl at that pub night?

F: when did you hook up with a girl at pub night keith?

M: oh boy.
F: is this the story i've already heard. well i dunno, it depends on what story it is. which what year is it? bc? then i've heard that story.

M: what about that time with jeff? recently, two months ago.

F: i never hooked up with jeff. that was his little brother. i did not. your little brother doesn't talk to me.

M: jeff and i went out to pub night.

F: who did he talk to? did he talk to rugby girls? i don't like rugby girls they they tend to grab his ------.

F: my friend mark madehisgirlfriend-the only way he would have sex with his girlfriend was if she promised that she wouldn't have an abortion if she got pregnant. this is mark ro-. no he doesn't believe in abortion. this is matt rothko who went home over break and smoked opium for two days with his friends.

F: (on abortion) well, i've had four.

M: i've had three.

F: it was a little uncomfortable, but yeah it went pretty well.

F: uh seventh. it's illegal in most states but my life was in danger all four times.

F: i like odd numbers. because seven's the next number that's all straight lines.

M: all straight lines?

F: i think they're luckier.

F: that's not-in my book, seven's straight. cuz i don't want people to think i'm gay by having an abortion on the 3rd or the 5th. cuz they're not straight.

F: i'm very homophobic.
M: *uhit'sait* it's an issue between us

F: he's gay. but at least we can agree on things like attractive guys* who we'd cheat on 
the other person with

M: *ireally*-i really don't find guys attractive necessarily. i really feel like i'm-a lesbian 
trapped in a man's body. therefore i'm attracted to women.

F: that's so overdone. that line has been used so many times. you're so unoriginal.

F: would you find it cheating if i started seeing another woman?

M: could i watch?

F: maybe. how much money could we get?

M: none.

F: then no.

M: what if i slept with another woman

F: that would be cheating

M: oh.

F: do you remember the time you had-*uh* that rugby girl massage your -----? that was 
cheating.

M: no it wasn't cuz *it'snot*-it's not intentional. i-i would call it massaging so much as 
grabbing.

F: it was unintentional.

M: this was[] the girl *that*-that mike hooked up with[] that night.
Bibliography


