PalArch's Journal of Archaeology of Egypt / Egyptology

INTONATIONAL PATTERNS OF THE SPEECH ACT TYPES IN SURA AL-GHASHIYAH: AN AUTOSEGMENTAL-METRICAL ANALYSIS

Zainab Abbodi Ali

College of Medical and Health Techniques, Southern Technical University in Basrah Iraq, Email: zainababudiusm@gmail.com

Zainab Abbodi Ali,Intonational Patterns of the Speech Act Types in Sura Al-Ghashiyah: An Autosegmental-Metrical Analysis-Palarch's Journal Of Archaeology Of Egypt/Egyptology 17(9), ISSN 1567-214x

Abstract

This study investigates the pragmatic function of intonational variations used in the Glorious Qur'an; namely, sura Al-ghashiyah. It aims to reveal and discuss the intonational patterns of different illocutionary forces in sura Al-ghashiyah. This study is significant research as it investigates the intonational variations of the speech acts types used in Glorious Qur'an particularly in sura Al-ghashiyah based on the autosegmental-metrical phonology (AM) model of Pierrehumbert (1980). This study adopts the autosegmental-metrical phonology model of Pierrehumbert (1980). The study fills the gap in literature as it analyses the data using Tones and Break Indices (TOBI) system, which is considered as the most common way of transcribing the intonation in (AM) model (Goldsmith & Hirschberg, 1992:2). The findings of the study revealed that intonation plays an important role and is responsible for changing the interpretation of the verse by its structure into another one which the speaker intends to convey. It is hoped that this study will provide a deeper understanding of the intended meaning of the verses, which can clarify the interpretation of the verses in sura Al-ghashiyah.

Keywords: Intonation and speech act, Autosegmental-Metrical phonology, intonational patterns, sura alghashiyah.

1. Introduction

Speech act is one area of investigation in the study of pragmatics. Itplays an essential role in the intonation since both pragmatics and intonation can contribute mainly todetermining and understanding the intended meaning of the utterance (Leech, 1983:45). In Valievna's words (2013:36) intonation is "the salt of an utterance. Without it, a statement can often be understood, but the message is tasteless and colourless". However, two important factors can determine the pragmatic function of pitch variations in which the first one refers to how different grammatical patterns can transport the same

illocutionary force and the second one to how one grammatical pattern can deliver different illocutionary patternsSearle (1979). In this regard, Grice etal. (2000:10) indicate that intonation plays an important role in distinguishing the illocutionary force of utterances, which in turn, can lead to understandingthe intended meaning of utterances. Therefore, the importance of the present study stems from the importance of showing how the types of the speech acts can vary in their intonational patterns depending on the context of the verse using the TOBI annotation system as a model of analysis, which has been used in AM model of Pierrehumbert (1980).

2. Theoretical Background 2.1 Previous Research

To our knowledge, there are very few studies on the application of AM model of Pierrehumbert (1980) using the TOBI system in investigating the pragmatic function of intonational variations in Arabic, particularly in Glorious Qur'anexcept for Mahadin and Jardat's study (2011). This model has been adapted for use in some of the languages like Dutch, Greek, Spanish, Italian, Japanese, Finnish, Korean, and others (Agarwal & Jain, 2010:2). Therefore, this study is different from other studies in that it adopts the AM model of Pierrehumbert (1980) to analyse the texts in Glorious Qur'an using the TOBI annotation system. However, Vaysi (2004) investigates the pragmatic function of intonation in English and Persian to examine the cross-cultural differences in the content of apologic semantic formulae. The results showed that the intonation problems in EFL learning can be found where the sentence conveys placement of tonics based on the information structure the sentence conveys. Speakers can use pitch range and accentual phrasing to mark intention-based information status in social interactions. In 2010, Agarwal and Jain compared the Indian language with different languages that used the TOBI system. The findings showed that the TOBI model system is useful for developing a labelled prosody system to identify the conversion of emotions in a speech. Besides, it wasfound that there are differences between Hindi and English syntax structure. The Hindi TOBI model requires to be developed so that it can accommodate the features of Hindi language. Research undertaken by Mahadinand Jardat's (2011) study is of interest since it is the only Arabic study, which examines the intonational variations in Arabic; namely, Irbid dialect in terms of AM of Pierrehumbert (1980). Their study focused on investigating the intonational variations in different utterances of Irbid dialect with the directive and commissive illocutionary forces. The main results of his study indicated that intonation plays a role in changing the interpretation of an utterance and it can determine the illocutionary function of an utterance when there is no other illocutionary marker. Another study was carried out by (Gioacchino & Jessop, 2011) to investigate the uptalk or high-rise terminals of female teenagers by measuring the pitch excursions that speakers produce in relation to the overall pitch range of the phrase in which it was produced. The results revealed that the excursions produced in uptalk fall in the mid-range of rises, sleeper than those of other declarative statements, but not as steep as those produced in question intonation.

2.2 Autosegmental-Metrical Framework

In 1980, Janet Pierrehumbert presented a model in his thesis, which marked the beginning of a new period in intonational research. The term belongs to Ladd (1996), who coined it as Autosegmental-Metrical (AM)(Gussenhoven, 2002:271–284). This model represents a connection between two sub-systems of phonology required for intonation. It is autosegmental because it has separate tiers for segments (vowels and consonants) and tones (H)igh and (L)ow. It is metrical because it suggests that the elements in these tiers are contained in a hierarchically organized set of phonological constituents to which the tones refer in several ways (Grice & etal., 2000:24). In this model, Pierrehumbert and Hischberg (1990) state that all the tones in a melody contribute compositionally to the pragmatic interpretation of an utterance. Pierrehumbert (1980) uses a new system of notation, which is called Tones and Break Indices (TOBI). TOBI is regarded as the most frequent way to transcribe intonation, which is used for prosodic annotation of speech in American English (Gioacchino & Jessop, 2011:2). In particular, TOBI system is composed of two main categories of prosodic events: the first tone is called the pitch accents, which is related to the stressed or strong syllables in the segmental tier, i.e., the word's relative prominence in the utterance and the second one is called the edge tone, which is related to the edges of a phrase (Mahdin& Jardat, 2011: 243). In general, there are four main tiers in this system:

- 1) A tone tier, which includes the pitch events thatare composed of either monotonal or bitonal tones and they are marked with (*) (e.g., H* or L*). The monotonal tones consist of one H or L tone and the bitonal tones consist of starred pitch accents when they are preceded by a leading tone or followed by a trailing tone. In addition, other diacritics are '-' (e.g., L-) indicates intermediate phrase boundaries (accents), '%' (e.g., H% or L%) indicates a boundary tone and all the unaccented syllables are left without markings (Fletcher, 2004). Pierrehumbert suggests six possible pitch accents: (H*, L*, L*+H, L+H*, H*+L, H+L*) (Ladd, 1996:79).
- 2) An orthographic tiertranscribes all words in the utterance(Gioacchino & Jessop, 2011:6).
- 3)A break-index (BI) tier describes the breaks between boundaries of the words in the utterance by labelling the end of the word for the subjective strength of its association with the next word, i.e., it marks the level of disjuncture between the two words (Jilka etal., 1999: 85). Hirschberg (2006:1) states that break indices define two levels of phrasing which is a minor or intermediate phrase (level 3) and major or intonational phrase (level 4).

Pierrehumbert labels four break indices and he gives a numeric system as follows:

- BI 0. It marks the clitilication and it represents no break between words. The words may carry only one pitch accent.
- B1 1. It marks the normal word boundaries and the words should carry at most one pitch accent each.
- BI 2. It marks the strong disjuncture or a noticed pause between the boundaries of the words. Some labelers find that BI 2 may be used for the mismatch between the boundaries while others describe this index as larger than a 1 but smaller than a 3.

(http://prosodia.upf.edu/sp_tobi/en/index.php:).

- BI 3. It marks the end of the boundaries of the intermediate phrase. The intermediate intonation phrase boundary refers to the single phrase tone from the last pitch accent to the boundary tone.
- BI 4. It marks the end of the boundaries of the intonational phrase.
- 4)A miscellaneous tier. It shows additional events or comments like hesitation, stuttering, etc.

2.3 Searle's Classification of Speech Acts

Searle (1979: 14) describes the speech act as actions of speaking by which the speaker sends his message or intention to the hearer. There are three important elements: the first one is the locutionary act factor, which refers to the act of saying something depending on the literal meaning of the context and the second act is the illocutionary act, which reflects the intended meaning of the speaker in his communication to the hearer, while the third one is the perlocutionary act which means the hearer's interpretation of what the speaker says.It is the act of causing a certain effect on hearer and others (Leech, 1993:316). Moreover, Searle (1997) classified the speech act into five categories:

- 1-Representatives refer to the illocutionary acts where the speaker connects between the propositional content of his/her saying and reality: state, believe, conclude, deny, and report.
- 2- Commissives refer to the illocutionary acts where the speaker dedicates himself to action happen in the future: promise, threat, vow, swear, and pledge.

- 3- **Directives** refer to the illocutionary acts where the speaker tries to make the hearer to carry out some action: warn, order, command, insist, dare, request, challenge, and ask.
- 4- **Expressiverefer to the** illocutionary acts in which the speaker expresses his psychological or mental attitude towards a state of affairs: welcome, thank, deplore, congratulate, greet, and apologize.
- 5- **Declaratives refer to the** illocutionary acts where the speaker makes or introduces a state of affairs to change the external reality: marry, name, bless, and arrest.

It is important to mention that this study focuses on investigating all the types of speech act used in sura al-ghashiyah and their tone patterns rather than the break indices.

3. Research Questions

To achieve the objectives, the present study addressed the following two research questions:

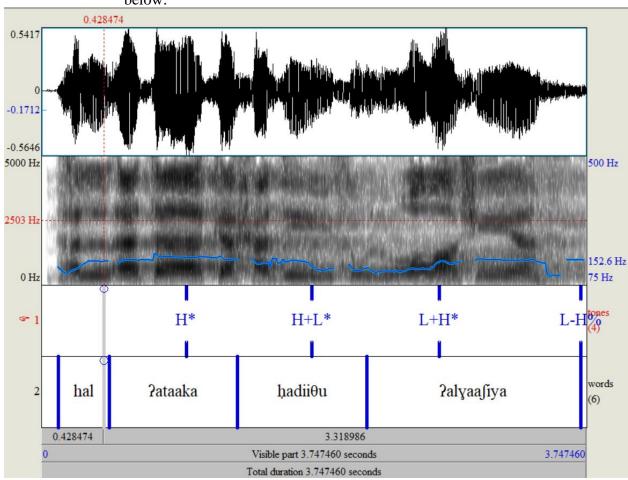
- 1. What are the types of speech acts of the verses with their function that are used in suraal-ghashiyah?
- 2. What are the tone patterns of the speech acts types in sura al-ghashiyah?

4. Methodology

Verses were selected from sura al-ghashiyah. Ten verses wereselected only to avoid repetition and to obtain a variation in the results of the data. Sura al-ghashiyah in this study is recited by sheik Mishary Rashid Alafasy. Hehas a very clear tone, which is clearly observed through analysingthe verses that are recited by him using the Praat programme.

5. Data Analysis

The selected Arabic verses weretranscribed and analyzed using the Praat software program. Praat is a computer software program used to analyze, synthesize, and manipulate speech and other sounds. It can also create graphics with high publication quality (Boersma, 2012: 4). The Praat program was used for acoustic analysis and it is automatically aligning the transcriptions to create Praat text grids with separate word and phoneme tiers. The pitch in this study is a perceptual concept, which is realized as a fundamental frequency (F0). The data were analyzed according to the TOBI annotation system in the AM framework. There are two tiers in which the first tier shows the tone of the stressed syllable in each word and the second tier



transcribes phonetically the stressed word in the verse as shown in Figure 1 below:

Figure 1: Praat analysis of the verse /hal ?ataaka ḥadiiθu ?alyaaʃiya/

5.1 Intonational Patterns of Speech Acts in Sura Al-ghashiyah

This section presents the analysis of the intonational patterns, which are used with all the categories of speech acts in sura al-ghashiyah. Moreover, the main intonational patterns and the pragmatic influence of intonation on these acts are identified. The translation of the verses from Arabic into English is based on Maulawi Sher Ali (Ali, 2004: 732-733). Three types of speech acts were recognized, introduced, and analyzed: representatives, commissives, and directives based on the TOBI system in terms of the AM model.

5.1.1 Representatives

Representatives are noticed in four verses, which function as a statement and they have declarative grammatical patterns. These four verses are as follows:

1) "Some faces on that day will be downcast" (2) وُجُوهٌ يَوْمَئذٍ خَاشِعَةٌ "

- "They shall enter a burning fire" (4) تَصْلَى نارًا حَامِيَةِ" (2
- "And some faces on that day will be joyful" (8)" "And some faces on that day will be joyful"
- "In a lofty Garden" (10) فِي جَنَّةٍ عالِيَةٍ" (4)

Below an example of acoustic analysis of one representative speech act which shows the intonational pattern of the verse "وُجُوهٌ يَوْمَئِذٍ خَاشِعَةٌ "Some faces on that day will be downcast"as shown in Figure 2:

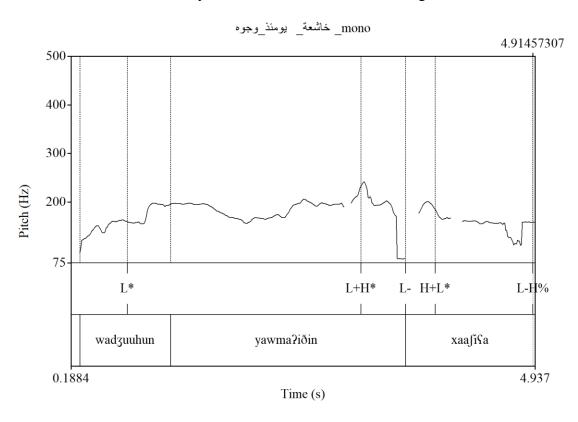


Figure 2: Praat analysis of the verse /wadzuuhun yawma?iðin xaaſisa/

As indicated above, the waveform of the utterance /wadzuuhun yawma?iðin xaaʃiʕa/. This waveform has an (L+H* L-H%) pattern. There are three prosodic words: wadzuuhun, yawma?iðin, and a xaaʃiʕa. The syllable "?ið" is clearly higher and more prominent than other syllables in other words since the pitch value of the syllable "?ið" is 241.58 Hz. The pitch starts low to form a bitonal pitch accent (L+H*)of the syllable "?ið"since the pitch starts from fall to high within the same syllable. Then, the pitch rises again to form a boundary tone (L-H%). The verse has a declarative structure and functions as a statement, which carries a falling-rising tone. Here, Allah wants to highlight that many faces on that day (the overwhelming Day) will be khashi'ah, which means that these faces will look humble. Allah emphasizes those who selected the worldly life and they have labored and toiled for things other than Islam. The high pitch is used to attract the disbelievers whose faces will be full of horror and fear.

5.1.2 Commissives

Commissives were noticed in three verses, which function as threatening and they have the declarative grammatical pattern. These three verses are as follows:

- (23) إِلَّا مَنْ تَوَلَّى وَكَفَرَ" (1 "In a lofty Garden" (24) "Allah will punish him with the greatest" "Allah will punish him with the greatest" punishment"
- رِيّ عَلَيْنا حِسابَهُمْ "Unto us surely is their return, Then," " (25)انَّ إِلَيْنا إِيابَهُمْ (26) ثُمَّ إِنَّ عَلَيْنا حِسابَهُمْ surely, it is for us to call them to account"

Accordingly, below an example of acoustic analysis of one commissive speech act which shows the intonational pattern of the verse "إِلَّا مَنْ تُوَلِّي وَكَفَرَ" (23)""In a lofty Garden"as shown in figure3:

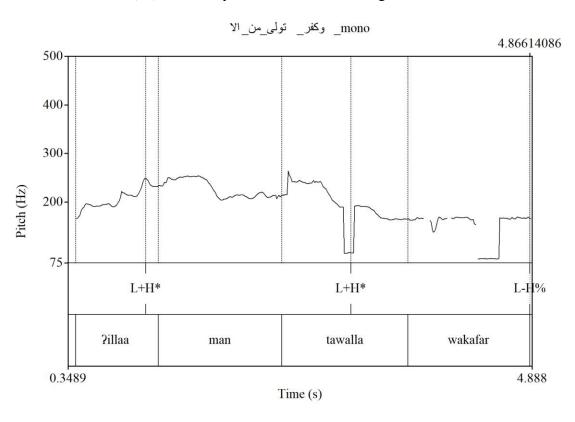


Figure 3: Praat analysis of the verse /?illaa man tawallawakafar/

As indicated above, the waveform of the utterance /?illaa man tawallawakafar/ has an (L+H* L-H%) pattern. There are three prosodic words: ?illaa, tawalla, and wakafar. This verse is declarative, but it functions as a threatening. It is noticed that the most basic pitch accent occurs on the syllable /llaa / in the exceptive particle '?illaa' and 'wakafar' since the pitch value of the syllable /llaa / is 248.84 Hz. All the prosodic words have a bitonal tone which is (L+H*)since the pitch starts from fall to high. Then, the pitch ends with a boundary tone (L-H%). In this verse, Allah addresses his messenger by confirming on disbelievers who deny Allah. The high pitch is used because Allah warns again about the punishment of the hereafter.

5.1.3 Directives

Directives were noticed in three verses, which function as a warningand they have the interrogatives and imperatives grammatical patterns. These three verses are as follows:

- 1) " "عَدِيثُ الْغَاشِيَةِ" (1) "has the story reached thee of the overwhelming (Event)?"
- (21) "In a lofty Garden" فَذَكِّرْ إِنَّمَا أَنْتَ مُذَكِّرٌ"
- "(18)" (18)" "And at the heaven, how the sky is raised high" (أَيُ السَّمَاءِ كَيْفَ رُفِعَت" (3

Below an example of the acoustic analysis of one directive speech act which has the imperative grammatical pattern. The intonational pattern of the verse "has the imperative grammatical pattern. The intonational pattern of the verse" (21)" "In a lofty Garden" is shown in figure 4 below:

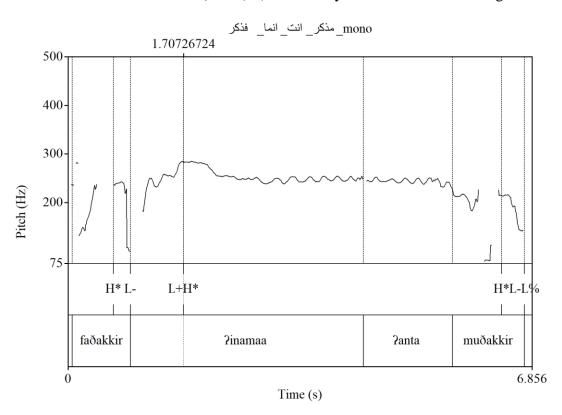


Figure 4: Praat analysis of the verse /faðakkir ʔinamaa ʔanta muðakkir/

As indicated above, the waveform of the utterance /faðakkir ?inamaa ?anta muðakkir/ has an (L+H* L-L%) pattern. There are three prosodic words:

faðakkir, ?inamaa, and a muðakkir. This verse is imperative, but it functions as a warning. The most basic pitch accent is noticed on the 'faðakkir' and '?inamaa', but it is clear that the pitch accent on the syllable '?in' in the word '?inamaa' is higher and more prominent than the syllable 'kir' in the word 'faðakkir' since the pitch value of the syllable '?in' is 285.06 Hz and the syllable 'kir' is 242.14 Hz. The pitch starts high to form a bitonal pitch accent (L+H*)of the syllable '?in' since the pitch starts from fall to high within the same syllable. Then, the pitch rises again to form a boundary tone (L-L%). In this verse, Allah warns Prophet Muhammad (S) only to remind the disbelievers. Allah emphasizes on the messenger that he is only a reminder for those people because he cannot force them to obey Allah. The low pitch is used because Allah addresses the prophet Muhammad (S).

6. Results and Discussion

Table 1 below summarizes the structure of the selected verses with their function, as well as the intended meaning of each one. In addition, the tone pattern of the speech acts types of these tone patterns are also introduced:

Table 1: Analysis of Verses

No	Verses	Type of	Structure	Function	Intention	Tone Pattern
		speech act				
1	wadzuuhun yawma?iðin xaaſiʕa وُجُوهٌ يَوْمَئِذٍ خَاشِعَةٌ	uct	declarative	statement	Allah emphasizes those who selected the worldly life and they have labored and toiled for things other than Islam	L+H* L-H%
2	taṣla naaran ħaamiya تَصْلَى نارًا حامِيَة	Representatives	declarative	statement	Allah continues his talking about those who selected the worldly life and he confirms that they will throw themselves into the fire because of their bad works	L+H* H-L%
3	wadzuuhun yawma?iðin naasima وُجُوهٌ يَوْمَئِذٍ نَاعِمَةً	Rep	declarative	statement	Allah addresses the believers as they will have joyful and softness faces in the day of overwhelming	H* L-L%
4	fii dzanatin Saaliya في جَنَّةٍ عالِيَة		declarative	statement	Allah promises the believers that they will be in a high place in heaven which is called paradise	H* L-L%
5	Pillaa man tawallawakafar إِلَّا مَنْ تَوَلَّى وَكَفَر	commissives	declarative	threatening	Allah addresses his messenger by confirming on disbelievers who deny Allah. The high pitch is used because Allah warns again about the punishment of the hereafter	L+H* L-H%
6	fajuSaðibuhu ?allaahu ?alSaðaaba ?al?akbar فَيُعَزِّبُهُ اللَّهُ الْعَذَابَ الْأَكْبَرَ	S	declarative	threatening	Allah continues his saying from the previous verse that he will punish the disbelievers and he described this punishment as the	H* L-L%

		1				1
					greatest punishment. The low	
					pitch reflects the long-standing	
					struggle of the messenger who	
					kept inviting people to Islam, but	
					they kept turning away it until	
					they reach this point	
7	?inna ?ilaynaa ?ijaabahum		declarative	threatening	Allah continues his saying to the	H*+L L-H%
					disbelievers that there is no doubt	
	أنَّ إِلَيْثا إِيابَهُمْ				that they will return finally to him	H+L* L-L%
					who will be taken the task of their	
	θumma ?inna Salaynaa		declarative	threatening	accounting by himself. In the first	
	ħisaabahum			\mathcal{E}	intonational phrase, the high pitch	
					is used to show Allah 's threat to	
	ثُمَّ إِنَّ عَلَيْنا حِسابَهُمْ				the disbelievers while in the	
	, , , , , ,				second intonational phrase, the	
					low pitch represents the end of the	
					sura as Allah shows the final	
					torture for the disbelievers	
8	has ?ataaka hadiiθu		interrogative	warning		H* L-H%
0	•		mierrogative	warning	1	11 · L-1170
	?alyaaʃiya				· · · · · · · · · · · · · · · · · · ·	
	هَلْ أَتَاكَ حَدِيثُ الْغَاشِيَةِ				awaken people's consciences and	
	هل اناك حدِيث العاسِيةِ				remind them about the greatness	
	C X 11 1 0 1 0 1				of Allah	T TT# T T 0/
9	faðakkir ?inamaa ?anta	Se	imperative	warning	Allah warns the prophet	L+H* L-L%
	muðakkir	Directives			Muhammad (S) to remind the	
	un marie s r. Ost. Marie a marie a	eci			disbelievers. Allah emphasizes on	
	فَذَكِرْ إِنَّما أَنْتَ مُذَكِّرٌ	Dii			the messenger that he is only a	
		. ,			reminder for those people because	
					he cannot force them to obey	
					Allah	
10	wa?ilaa assamaa?i keifa		interrogative	question	Allah wants the people to think to	H+L* L-L%
	rufiSat				keep their attention about the	
	وَإِلَى السَّماءِ كَيْفَ رُفِعَت				creation of the universe. The low	

PJAEE, 17	(9) (2020)
-----------	------------

		pitch is used to make the people wonder how the sky is raised with	
		bright stars and all the beauties	
		that attract everyone's attention	

As shown above, there are generally three types of speech acts, which are representatives, commissives, and directives. These are summarized as follows:

- 1. The representative illocutionary forces used in this study are declaratives which have the function of a statement. The observed tone patterns of the statements are as follows:
- a. L+H* L-H% is bitonal tone which is used to show emphasizing and to address the disbelievers.
- b. L+H* H-L% is bitonal tone which is used to show continuation and confirmation and to address the disbelievers.
- c. H* L-L% is monotonal tone which is used to show promising and satisfaction and it is used to address the believers.
- 2. The commissive illocutionary forces used in this study are declarative, which have the function of threatening. The observed tone patterns of the threatenings are as follows:
- a. L+H* L-H% is a bitonal tone to show a warning and it is used to address the disbelievers.
- b. H* L-L% is a monotonal tone to show invitation and it is used to address the disbelievers.
- c. H*+L L-H% is a bitonal tone which is used to show a warning and to address the disbelievers.
- d. H+L* L-L% is a bitonal tone which is used to show finality and to address the disbelievers.
- 3.The directive illocutionary forces which are used in this study are interrogatives and imperatives. The directive interrogatives have the function of warnings and questions while the directive imperatives have the function of warnings. The tone patterns of the warnings and questions are summarized in (a) and (b), respectively as follows:
- a. H* L-H% is a monotonal tone which is used to show reminding and to address the disbelievers.
- b. H+L* L-L% is a bitonal tone which is used to show wondering and to address the disbelievers.

Moreover, the tone pattern of the directive warning is as follows:

a. L+H* L-L% is a bitonal tone which is used for warning and to address Prophet Muhammad.

It is important to mention that Chahal (1999), El-Hassan (1987), Al'amayreh (1991) and Al-Ghamdi (2007) state that the declarative pattern in Arabic contains a high tonic syllable or nuclear accent which is followed by a low

falling to the bottom or middle of pitch range. This study indicates that declaratives could be used to express different illocutionary forces of representatives or commissivesbecause they co-occur with different intonational patterns and pitch heights to convey several illocutionary forces. The pattern of declarative statement has a high nuclear accentfollowed by either a falling-rising boundary tone or a rising-falling boundary tone. Declarative threatening patterns contain a high and low nuclear tone followed by either falling-rising or falling boundary tone. In addition, the imperative warning pattern has a high pitch range at the leftward tune that falls at the end of the rightward boundary of the tune and this is a very clear notice in the verse "faðakkir ?inamaa ?anta muðakkir""". فَذُكِرْ إِنَّمَا أَنْتَ مُذُكِّرِ إِنَّمَا أَنْتَ مُذُكِّرِ study is in line with Al-'ani (1970:92) who has found that the highest level of command tune occurs on the last stressed syllable which falls then on the bottom of the rightward boundary range. Interrogatives could be used to convey either a warning or a question. The warning has a high nuclear accent followed by a falling-rising tone at the rightward boundary tone. In their study, Mahadin and Jardat (2011:247) state the same thing when they found that the pattern (H*+L L-H%) is used for warning. Finally, the question has a low nuclear pitch accent followed by an(L-L%) boundary tone.

7. Conclusion

Considering the previous discussion, the study has concluded the following major findings:

- 1) The findings revealed that intonation plays an important role and is responsible for changing the interpretation of an utterance, where the speaker intends to convey.
- 2) There are three types of speech act, which are used in sura Al-ghashiyah. The first one is the representatives and the second type is the commissives, while the third one is the directives. It was noticed that the statement and threatening can be attained by declarative and the warning can be attained by interrogative and imperatives, but the question can be attained only by interrogative.
- 3) In general, the most common tone, which is used by the reciter sheik Mishary Rashid Alafasyis the bitonal tone pattern. On one hand, the rising tone is the most common pitch accent tone, which is used in a declarative statement and threatening, as well as interrogative and imperative warning. The rising tone indicates emphasizing, continuation, confirmation, warning, invitation, and reminding. It is used to address the disbelievers. On the other hand, the falling tone is a less common tone, which is used for wondering and finality to particularly addressProphet Muhammad and his believers.

REFERENCES

Al- Amayreh, M. (1991). A Study of the Basic Intonational Patterns in Standard and Jordanian Arabic. Unpublished MA Thesis. The University of Jordan. Amman: Jordan.

Al-Ani, S. H. (1970). *Arabic phonology: An acoustical and physiological Investigation*. The Hague: Mouton.

Al-Ghamdi, A. (2006). *A Preliminary Analysis of the Intonation of Riyadh Saudi Arabic*. Rutgers University. Retrieved May 10, 2009, from http://www.roa. Rutgers. edu/ files/.

Ali, M.S. (2004). *The Holy Qur'an: Arabic Text and English Translation*. UK: Islam International Publications Limited.

Agarwal, A. and Jain, A. (2010). "Tones and break indices for speech processing-A review". In *Proceedings of the 4th National Conference: Computing for Nation Development*. Vol. 25-26. pp: 319-324. New Delhi.

Boersma, P. (2012). "The use of Praat in corpus research". In *Handbook of corpus phonology*. Edited by J. Durand, U. Gut, & G. Kristofferson. Oxford: Oxford University Press. pp: 1–26.

Chahal, D. (1999). "A Preliminary Analysis of Lebanese Arabic Intonation". *In Proceedings of the conference of the Australian Linguistic Society*. p.p: 1-17. Australia. Retrieved June 5, 2009, from http://www. Linguistics. uwa.edu.au.

Gussenhoven, C. (2002). "Phonology of Intonation". *Glot International*. Vol. 6. No. 9/10. p.p: 271-284. USA.

El-Hassan, S. (1987). "The Intonation of Questions in English and Arabic". *Abhath Al-Yarmouk*. No. 22. pp: 97-108. Jordan: Irbid.

Fletcher, J. (2004). *E-Tobi Intonational Annotation*. Retrieved January 20, 2015 from www. Alta.asn.au/events/altss2004/course_notes/ ALTSS-FletcherProsody. Pdf.

Gioacchino, M. and Jessop, L. (2011). "Uptalk: Towards A Quantitative Analysis". *Toronto Working Papers in Linguistics*. No.33. pp:1-16.

Goldsmith, J. and Hirschberg, P. (1992). Autosegmental and Metrical Phonology. *Journal of Phonetics*. pp: 20:2-6. USA.

Grice, M., Ladd, R. D., and Arvaniti, A. (2000). On the place of phrase accents in intonational phonology. *Phonology*. No.17, pp. 143–185.

Hirschberg, J. (2006). "Pragmatics and intonation". In *Handbook of Pragmatics*. Edited by Horn, L.R, and Gregory. UK: Blackwell Publishing. pp. 515-537.

Jilka, M., Möhler, G. and G. Dogil. (1999): Rules for the generation of TOBI-based American English intonation. In *Speech Communication*. No.28. pp. 83 - 108.

Ladd, R. (1996). *Intonational Phonology*. UK. Cambridge: Cambridge University Press.

Leech, G.N. (1983). *Principles of Pragmatics*. Cambridge: Cambridge University Press.

Mahadin, R. and Jardat, A. (2011). "The Pragmatic Function of Intonation in Irbid Dialect Acoustic Analysis of Some Speech Acts". *International Journal of Humanities and Social Science*. No. 9. Pp. 243-251. Jordan:Amman.

Pierrehumbert, J. (1980). *The Phonology and Phonetics of English Intonation*. Unpublished Thesis. Massachusetts Institute of Technology.

Ryding, K. (2005). *Modern Standard Arabic*. Cambridge: Cambridge University Press.

Searle, J. (1979). Expression and Meaning: Studies in the Theory of Speech Acts. UK: Cambridge University

Valievna, M. Kh. (2013). *Intonation of Interrogative Sentences in the English and Uzbek*. Unpublished thesis. Uzbekistan State University of World Languages.

Vaysi, E. (2004). "A Comparative Study on Intonation Patterns and Illocutionary Interface in Real Samples of Speech in English and Persian: Apology Speech Act Set". *International Journal of Language Learning and Applied Linguistics World.* Vol. 7(2). Iran.