

Phonological Aspects of Jizani Arabic

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Abstract

There are salient features that distinguish Jizani Arabic such as the deletion and neutralization of particular sounds. Some sounds are specified with others occurring as parts of affixes. The processes of deletion and neutralization of sounds can be explained from morphological and morph syntactic perspectives whose influence rearranges the pronunciation and effects phonological aspects. We studied Jizani Arabic and identified the most important phonological processes in terms of glottal stop deletion, /m/ neutralization in suffix final position, and /m/ insertion in the definite article. These processes are predictable and are thought to be motivated by frequency of usage among speakers.

1. Introduction

Jizani Arabic is one of the spoken dialects in the southern parts of Saudi Arabia and it is spoken by about 1. 3 million speakers. In Jizani Arabic, there are three features that distinguish it from other dialects. It is observed that the glottal stop /ʔ/ is deleted word initially in certain environments and retained word medially and finally. Furthermore, it is observed that the nasal /m/ in suffix final position is realized as [n]. This can be seen when comparing Jizani Arabic with standard Arabic as well as many other dialects where nouns take the suffix (-kum) to indicate possessive (masc/mixed) plural pronoun *your*, while verbs take the suffix (-tum) to indicate second (masc/mixed) plural pronoun. The same applies to the suffix /-hum/which is used to indicate third person possessive (masc/mixed) plural pronoun. Obviously, it is important to mention that not all the patterns we are explaining here are used by all speakers of southern parts of Saudi Arabia. The definite article also exhibits a systematic sound change based on the type of referents. In this paper, I will explain and describe a set of phonological aspects that are common in Jizani Arabic along with the factors and environment or context that govern their distributions.

2. Data

Data was collected and developed partly by the researcher who is a native speaker of Jizani Arabic as. The other part of the data was collected from the researcher's family members. A variety of words were developed with the target sounds /ʔ, n/ in different positions and diverse environments to study their distributions. The lexical representation is presented in the below tables as the starting point to examine the patterns. Table I below shows the data sets developed to study glottal stop deletion.

Table I: glottal stop deletion

Lexical representation	transcription	gloss	Lexical representation	transcription	gloss
ʔasriʕ	sriʕ	hurry	ʔalif	ʔalif	letter A
ʔaydar	ɣdar	green	ʔalam	ʔalam	pain
ʔashab	shab	friends	ʔami:rah	ʔami:rah	princess
ʔaʕla	ʕla	above	ʔalaʔ	ʔalaʔ	name
ʔahsan	hsan	better	ʔaða	ʔaða	harm
ʔaslaʕ	slaʕ	bald	ʔusu:d	ʔusu:d	Lions
ʔahmad	hmad	name	masʔul	masʔul	officer
ʔustad	stad	teacher	suʔal	suʔal	question
ʔuktub	ktub	write	laʔ	laʔ	no
ʔudrus	drus	study (imp)	laʔi:m	laʔim	mean (adj)
ʔiʕlan	ʕlan	advertisement	saʔil	saʔil	liquid
ʔiʕsar	ʕsar	hurricane	maʔtam	maʔtam	funeral
ʔinsan	nsan	human	maʔ	maʔ	water

3. Analysis

The glottal stop has been observed (Watson, 2007) to occur in a wide range of environments in Arabic. We can clearly notice that in the first column of table I /ʔ/ does not occur word initially, while it occurs word medially and finally as in the second column. However, the glottal stop is not deleted word initially in the third column. Here, we can see that in the first column /ʔ/ is followed by a vowel and two consonants, while in the third column it is followed only by a vowel and one consonant. This suggests that /ʔ/ is deleted word initially when followed by two consonants. It is worth mentioning that vowels in Arabic (Kopczynski and Meliani, 1993) never occur word initially. Thus, the vowels that come after the glottal stop are automatically deleted after the glottal stop deletion. The process for deleting /ʔ/ involves two rules captured in the below derivation:

Glottal stop deletion

/ʔ/ is deleted word initially when followed by two consonants with any intervening number of vowels.

Rule 1: [-son, +constrgl] → Ø / # __ [+syll] C2

Vowel deletion

Vowels are deleted word initially.

Rule 2: [+syll] → Ø / # __

Gloss	‘water’	‘officer’	‘hurry’
Lexical representation	/maʔ/	/masʔul/	/ʔasriʕ/
Glottal stop deletion	—	—	asriʕ
Vowel deletion	—	—	sriʕ
Surface form	[maʔ]	[masʔul]	[sriʕ]

4. /m/ neutralization

In Modern standard Arabic /m/ and /n/ are two distinct phonemes and (-kum, -tum -hum) are used as second person suffixes. The final /m/ in these suffixes are realized as [n] in Jizani Arabic. Furthermore, the feminine marker /t/, which is attached to the verb final position in the perfect mood, is realized [n]. Table II shows the distribution of /m, n/ in various environments.

Table II: /m, n/ distribution in jizani Arabic

Lexical representation	transcription-suffixed forms	gloss	Lexical representation	transcription-unsuffixed forms	gloss
antum	antun	you (plu)	lamsah	lamsah	touch
ataytum	ataytun	you came	χamsah	χamsah	five
ʕiriftum	ʕiriftun	you knew	min	min	from
baytakum	baytakun	your house	sum	sum	poison
babakum	babakun	your door	ʕalim	ʕalim	scholar
ʔakalat	ʔakalan	she ate	sali:m	sali:m	intact
safarat	safaran	she travelled	basmah	basmah	smile (n)
kutubukum	kutubukun	your books	ðami:m	ðami:m	ugly
kutubuhum	kutubuhun	their books	nasi:m	nasi:m	breeze

In the first column of table II, /m/ and /t/ are realized [n] in the suffixed forms. In the second column, /m/ occurs in the unsuffixed forms in different environments. The process for realizing /m/ as [n] is captured in the below rule:

/m/ neutralization rule

/m/ is realized [n] word finally preceded by a number of sounds and a stem boundary.

[+nasal, +labial] → [-labial, +coronal] /]stem X __#

Gloss	‘breeze’	‘poison’	‘your door’
Lexical representation	/nasi:m/	/sum/	/baba-kum/
/m/ Neutralization	—	—	babakun
Surface form	[nasi:m]	[sum]	[babakun]

5. /m/ in definite article

Another distinctive aspect of Jizani Arabic is the use of /ʔam/ as a definite article. In Arabic, the definite article (ال) or /ʔal/ is attached to the beginning of the nouns. The use of the definite article (L, Mahmood, and M. Tawfeeq, 2006) is based on the type of reference which can be specific, generic, and unique. In all three types the referents are known to the hearers who will be able to understand the intended meaning. In Jizani Arabic, the /l/ in the definite article /ʔal/ is realized /m/ to indicate definiteness when the referents are specific or unique. However, /m/ does not replace [l] if the referent is generic as shown below in table III. This case is similar to the use of /n, m/ for [l] that has been widely common (Watson, 2011) among south Arabian dialects including Yemeni. However, in Jizani Arabic only /m/ is recognized.

Table III: /m/ insertion in definite article

Lexical representation	transcription	gloss	Lexical representation	transcription	gloss
ʔalmu:l	ʔalmu:l	the mall	ʔas:iarah	ʔamsiarah	the car
ʔasafara	ʔasafara	the embassy	ʔaldʒamal	ʔamdʒamal	the camel
ʔan:as	ʔan:as	people	ʔalkursi	ʔamkursi	the seat
ʔalmata:r	ʔalmata:r	the airport	ʔalbab	ʔambab	the door
ʔalyaman	ʔalyaman	Yemen	ʔar:adi	ʔamradi	the radio
aldʒamiʃah	aldʒamiʃah	the university	ʔalm:aʃ	ʔam:aʃ	the water
ʔalfadʒr	ʔalfadʒr	dawn	ʔan:ar	ʔamnar	the fire
ʔaduhr	ʔaduhr	noon	ʔaʃariʃ	ʔamʃariʃ	the street

6. Discussion

There are two explanations underlying the deletion of glottal stop in Jizani Arabic. The first of which is that the glottal stop is deleted along with the vowel following it word initially and this is explained by two deletion processes as ruled out under 3. The other explanation is that the initial syllable with the glottal stop in a phonological segment is deleted entirely. Here, we can assume that these words [ʔasriʃ, ʔaxdar, ʔustad] are syllabified as [CV]σ [CCVC]σ or [CVC]σ [CVC]σ. After the deletion process, the syllabification is suggested to take this form [CCVC]σ. However, the final consonant (coda) might not be present in some words such as [ʔaʃla] and that still does not affect the syllable structure or the deletion process. The deletion of the glottal stop or the syllable in which it occurs can be motivated by frequency effect and by the fact that glottal stops are perceptually quite weak in some environments.

The /m/ neutralization is restricted to second person suffixes ending in /m/ changing its place of articulation into alveolar. On the other hand, third singular feminine suffix /t/ in perfect mood verbs changes its manner of articulation into nasal. The nasal /m/ and the alveolar /t/ can be found in other words where they do not occur in suffix such as [tahakum] and [bayt] for 'control and house 'with /m, t/ not realized as [n]. In both cases, we can assume that replacing /m, t/ in suffixes is a regular sound change affecting all the words in the specific phonetically conditioning environment as shown by the rule above under 4.

As to the insertion of /m/ in place of [l] in the definite article, it occurs when the speaker and hearer have a mutual or more specific knowledge of the referents. For instance, in a second mention of the noun or with unique referents like the sun or the moon. This can be identified with specific and unique nouns that refer to concepts or objects including common and proper nouns. When referring to generic nouns, /l/ is not realized as /m/ and here it is suggested that the referents, though generally known, but not of higher degree of specificity as with the specific and unique nouns. Frequency of use can partially account for this pattern. This case contradicts Haselwood and Watsons' (2013) study who argue that dialects in southern Saudi Arabia (where Jizani Arabic is one of) and Yemen replace /l/ with /m/ in the definite article in any position. In fact, the word Yemen itself as in table III does not take the definite article /m/ or its variants. Using /m/ in definite article is the norm in southern Saudi Arabian dialects which share a lot of morphological and lexical processes with the neighboring Yemeni dialects. However, the definite article /m/ shows a unique pattern with certain class of words in Jizani Arabic as explained above.

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Conclusions

Jizani Arabic is characterized by the deletion of glottal stop, neutralization of /m/ in particular suffixes, and by using /m/ in place of /l/ in the definite article. These phonological aspects are informed by morphological and morph syntactic factors that explicate them. The motivation behind some phonological patterns can be referred to the frequency of use. These aspects are typical to Jizani Arabic and shared among the majority of speakers. The sound change patterns show regular sound changes that affect all the words in the phonetic environment that condition the changes. Variation is still present among speakers, yet the phonological aspects are distinctive.

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