CORPUS BASED ANALYSIS OF INDEFINITE ARTICLE USE BY SAUDI ESL LEARNERS

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- Arabic has a morphophonological feature that is often present on indefinite nouns. This feature is called <u>nunation</u>.
- Articles in Arabic:
 - Definite article "al" is prefixed to the noun
 - Nunation is suffixed to the noun (Debated!!)

1-

a. ∫tarait-u
Buy.PAST-I
b. ∫tarait-u
Buv.PAST-I
book-ACC-N

- There is a debate over the role of nunation in Arabic literature as an indefinite article:
 - As an indefinite article: nunation's complementary distribution with the definite article (E. Schulz 2004, K. Versteegh 2014, F. Abu-Chacra 2007, K. Ryding 2005)

1-

a. ∫tarait-u ?al-kitaab-a
Buy.PAST-I The-book-ACC
b. ∫tarait-u kitaab-a-n
Buy.PAST-I book-ACC-N
c. ∫tarait-u (*?al-)kitaab-a-n
buy.PAST-I (*the)book-ACC-N
'I bought a book'

2-

- Others argue against nunation as an indefinite article (Fassi 1993, 2012, Jarrah, M., & Zibin, A. 2016a, Jarrah, M., & Zibin, A. 2016b, Lyons 1999, among others).
 - Nunation appears on proper nouns as well, which are definite by nature
 - Arabic marks indefiniteness with the absence of a definite article (null).

a. ra?ai-tu mohammad-a-n fi-s-suuq-i see.PAST-1S Mohammad-ACC-N in-DEF-market-GEN 'I saw Mohammad in the market.'

- Alzamil (2023) investigated the influence of nunation on indefinite article use in English by comparing the production of Najdi (nunation) and Hijazi (nonunation) Arabic speakers.
 - "both groups struggled in using the target a in singular contexts"
 - "(the average for Najdi speakers was 52% and for Hijazi speakers 41%)"
 - "Najdi speakers used a more accurately than Hijazi speakers did in singular contexts"
- Interesting but not convincing enough

RESEARCH QUESTION

• Does Saudi ESL learner's production of the indefinite English article provide evidence that nunation is an indefinite article in Arabic?

CORPUS

Data:

- Data made available by (Vercellotti, 2017) in TalkBank was used for the analysis.
- Data form: speech transcripts

Participants:

- L1s:Arabic (n=43), Chinese (n=16), and Korean (n=7)
- Final number of participants: 43 Arabic speakers
- Adults in an Intensive English Program (IEP) in the United States.

Data collection

• During class meetings as part of the speaking curriculum of the program

Levels:

• low-intermediate | high-intermediate | low-advanced

Contributions:

• low-int = 54 | high-int = 120 | low-adv = 34

ANALYSIS

Extracted ids and levels from file names with regex.

```
#this gives the ids listed in the file names
ids <- str_extract(speech, "\\d{3,}")

# this gives the level listed in the file names
levels <- str_extract(speech, "_\\d{1}[A-Z]")
levels <- str_remove_all(levels, "_|[A-Z]")</pre>
```

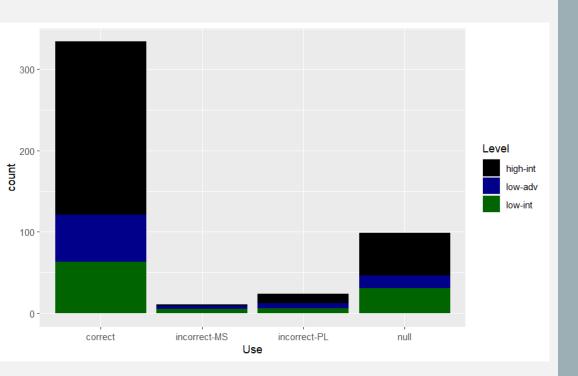
- Removed the lines of metadata from each transcript
- Created a data frame with IDs, Level, and Transcripts
- Started cleaning the transcripts from CHAT formatting

```
speechdf Transcript <- speechdf Transcript %>% str_remove_all("\bNA\b|\\d+|\\d+|\\d{3}|@...|\\\t|\\n|c\\(|[^\\w|\\s]|\buh\\s|\bPAR|\bPAR0") %>% str_replace_all("_", " ")
```

ANALYSIS

- Created three df one for each level (low-int, high-int, low-adv)
- Loaded the POS tagger and language model
- Tagged the dfs
- Recreated the transcripts with each word tagged
- Created a list for mass nouns and replaced the tag on mass nouns with NNC (it should've been NNM)
- Extracted the contexts of article use (correct, incorrect-PL, incorrect-MS, null)

Use <chr></chr>	n <int></int>
correct	334
incorrect-MS	11
incorrect-PL	24
null	99

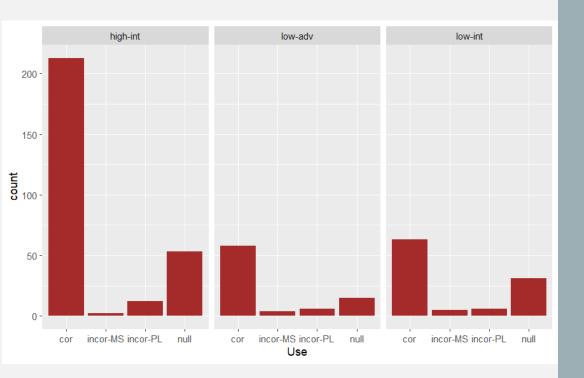


RESULTS

A frequency count of each context of article use

Overall, correct indefinite article use was much more frequent than null

	correct	null	
Low-int	67%	33%	
High-int	80.1%	19.9%	
Low-adv	79.5%	20.5%	



RESULTS

High-intermediate contributed more than half (120/208)

The proportional difference of correct and null for each level.

CONCLUSIONS

- there are two possibilities for how Arabic marks indefiniteness:
 - 1) it marks it overtly via nunation
 - 2) it marks via the absence of the definite article
- While the results point to the former, it should be taken with caution:
 - the participants in this corpus were students in a language program in the United States.
 - suggesting that nunation is a marker of indefiniteness in Arabic is contradicted by its presence on proper nouns.

CONCLUSIONS

• Errors made in the use of the indefinite article with plural and mass nouns could be used in support of the argument that nunation is an indefinite article.

- a. ra?aitu radʒula-**n** t^rawiːla saw-I man-nun tall 'I saw a tall man'
- b. ra?aitu ridʒala-**n** t^ciwaːla saw-I men-nun tall 'I saw tall men'
- c. ?akaltu ?ruz-an ?bjad^c Ate-I rice-nun white

CONCLUSIONS

- However, it is difficult to argue for one interpretation over the other when MSA is considered as the LI because it is not any Arabic speaker's LI.
- Arabic speakers use their varieties in everyday communication rather than MSA.
- Varieties can be vastly different from MSA
 - Najdi & Hijazi

FUTURE RESEARCH

• Comparing the influence of nunation on the use of indefinite English articles from dialects that use nunation might reveal more about the nature of this mysterious linguistic feature.

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