

RESEARCH ARTICLE

Derivation of Verbs from Loanwords in Arabic According to Arabic Derivational Paradigms

Reima Al-Jarf

Full Professor of English and Translation Studies, Riyadh, Saudi Arabia Corresponding Author: Reima Al-Jarf, E-mail: reima.al.jarf@gmail.com

ABSTRACT

A sample of 186 loanwords with derived verbs in Arabic was collected and analyzed to explore how these verbs are derived from loanwords; part of speech of the derivable source loanwords; which derivational verb patterns are followed; why verbs are derivable from some loanwords but not from others; and the constraints imposed on the derivation of verbs from loanwords. Data analysis revealed that some loan verbs remain as they are when borrowed in Arabic (comment, update). In 41%, the derived verbs in Arabic are an Arabization of the verbs in the doner language. In 59%, Arabic speakers derive a verb from loan nouns for which no derived verbs exist in the doner (source) language. In 12% of the loanwords, two verbs are derived which follow adifferent derivational patterns, with a different meaning and transitivity. The derived verbs in the sample follow nine Arabic derivational patterns regardless of the source language. A root consisting of 3, 4 or 5 consonants is extracted from the loan word, with vowels added in between. 82% follow five guadri-consonantal paradigms and 16% follow three guingue-consonantal paradigms. The most productive paradigm is لفعلل / CVCCVC (Afghanize > أفغن/ afɣan/ (VT, make Afghani in character or فعّل nationality); Amalgamate > ملغم /malyam/; Americanize > أمرك /amrak/ (46%). The second most productive paradigm is لتن<hannag/ (VI); Latinize/ هنج<hakar/ (VT); hakkar/ (VT); hang/ هنج<a have as in Gypsum/ ولازها المراجبتين (VI); Latinize/ التن</a /lattan/ (VT). The quinque-consonantal paradigms تفعلل /tafa?lal/ CVCVCVC is used in 9% of the loanwords as in democratize > /damagraT/ (VT). The tri-consonantal paradigm is the least productive (2%) as in Ekleipsis (Gr) eclipse / كسف</r> All derived verbs herein conform to the Arabic phonotactic and morphotactic systems and are frequently used in daily speech. The same strategies for creating augmented verbs are used in all native but many loanwords. Verb derivation from nouns as countries is feasible but not used, and for others, it is not possible and is counter intuitive to extract consonants to form a root. Recommendations for the creation of a loanwords dictionary and a Arabic derivations' dictionary are given.

KEYWORDS

Loanwords derivation, loan verbs, derived verbs, loanword morphology, loanwords in Arabic, derivational patterns, derivational paradigms, tri-consonantal, quadri-consonantal, quinque-consonantal

ARTICLE INFORMATION

ACCEPTED: 05 February 2024	PUBLISHED: 24 February 2024	DOI: 10.32996/ljahs.2024.4.1.9

1. Introduction

According to Al-Jarf (2015); Al-Jarf (1994) and Al-Jarf (1990), Arabic is a derivational language in which words are formed from a root consisting of three or four consonants and a set of short and/or vowels that alternate with the root consonants. Different derivational patterns (paradigms) are used to derive agents, patients, abstract nouns, nouns of place, time, diseases, tools, appliances, occupation, relative adjectives, the diminutive and others. For example, many words are derived from the verb تنه wrote such as: مكتب book; حمكتب bookster; كتب bookstore; كتب smale author; كتب smale author; كتب corresponded with; مكتوب writing to a person asking for something; كتاب subscription.

Copyright: © 2024 the Author(s). This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC-BY) 4.0 license (https://creativecommons.org/licenses/by/4.0/). Published by Al-Kindi Centre for Research and Development, London, United Kingdom.

In addition, several augmented verb forms are derived by adding initial, medial and final consonants following certain paradigms as in: (i) لَعْتَل /faːɣ-ala/ implies that refers to an act done with great violence (intensiveness), such as كمرّة (break into pieces); مرّة (break into pieces); مرّة (to walk) فطّع (cut into pieces) ; مقق (cut into pieces); مقق (clap); an act done during a long time (temporally extensive) as in someone around Kaaba; بکّی (make someone cry); an act done to/by a number of individuals (numerically extensive) (بخت to try several times, فرّ disperse, جمّ assemble, gather); an act of causative or factive signification (خرّ to bring joy to someone, كنّب make someone write); declarative or estimative (متق to believe someone), كذّب to disbelieve someone); to make/do, or be to nurse); حيّا/سلّم to greet, حيّا/سلّم to nurse); دخيّا to nurse); خيّا to nurse) حيّا/سلّم to nurse) حارب) move east, حارب) aim at). (ii) ما علام (fa:Ṣlal/ implies reciprocity أقبل (move east, حارب) aim at). (ii) حارب fight, أفعل compete with). (iii) نافس share/participate، کاتب attack، هاجم share/participate شارك resist قاوم fight, أفعل (indicates movement أ to head for Najd, أيْمَن to head for Yemen; entering upon a period of time (أيمَن to head for Najd, اشتى to be in the morning, اشتى to slow down, أبْطأ) to rain); acquiring a quality أتْمَر to slow down, أتْمَر to rain); acquiring a quality أنجط) to slow down, to become barren، تفَعَّلَ (ki) to speed up); obtaining or having something (أجدب) to become barren أشرع become bankrupt). (iv) أسرع تأمل) to be arrogant, تقرّق break up); the idea of reflexiveness تقرّق to separate in many places, تأمل تفاعل) pretend to be sick); reciprocity تعافل ,ignore تغافل ,overlook تبنى ,overhear تسمع ,follow تتبع , follow تفاعل); interact, تساقطت الامطار rain falls, تسامع به الناس people heard of it by communicating it to each other); actions that take place bit stagger). (v) تحامل في المشي collapsed, تداعى البناء stagger) تعاونت المرأة fall off, تساقط الشعر) by bit or by successive efforts ,split انکسر split انشق) sifid ala/ expresses an act to be done in reference to him, or an effort to be produced by him انکسر split, part with, افترق) part with (انكشف (vi) الأتقار (vi) المُتَّعَلَ (uncover انصطر go off, انصطر split into 2 halves) انكشف to bathe). (vii) الفَعَلّ (is mainly used اغتسل , bob full امتلأ , be full التمس , listen attentively استمع burn اعترض , burn اشتعل to express colors or to show intensiveness (احضر to turn red, احضر to turn green, ادول to become cross-eyed, ارور wrote to another person asking for or demanding /?istaf؟ala/ for taking, seeking, asking for or demanding /?istaf?l استكتب) /vote to another person asking for ask for help; for استغلث , seek God's forgiveness استأذن , to ask for information استعلم , something reflexiveness (استولى take over, استكان calm down, استولى to be shy) and others.

A bilateral root, expressing a sound or movement is repeated to indicate the repetition of that sound or movement as in قهقه giggle, نمشم sniff. Quadri-consonantal verbs are formed from nouns of more than three letters, some of which are foreign words as شجّر to plant trees, سرّمن sleep-walk, نقْحَر transliterate, عَلْمَن be could be could be any trees to market.

Furthermore, some verbs are derived from nouns through the process of back formation as in بقب (chapter) بقب (organize into chapters); بقب د electricity کهرباء electrify; قونن to shop, قونن to shop, قنن (alwordize, تسوّق send in groups (Al-Jarf, 2011b; Al-Jarf, 1994).

When foreign words are borrowed in Arabic, some remain as they are in the doner (source) language , and others undergo partial or full phonological and/or morphological alterations to fit the Arabic phonological and/or morphological systems as in the derivation of verbs, abstract nouns, action nouns, adjectives, and others following Arabic derivational rules. In some cases, Arabic derives forms from borrowings that have no derivatives in the doner language, vis English. As a result, they are integrated into the Arabic lexicon and are used naturally like other native Arabic words. Specifically, verbs are either borrowed and Arabized following the Arabic derivational patterns (*telephone أكسد oxidize xidice signal cases)*, or even derived from loanwords from which no verbs exist in the doner language as *asphalt*, *LASER*, *LASER*

2. Literature Review

Loanwords and loan verbs are a common linguistic phenomenon in many languages. Loan verb morphology and adaptation, in particular, have been the focus of many studies in the literature such as loan verb adaptation in Pontic Greek spoken in Georgia (Berikashvili, 2019); strategies and patterns of loan verb integration in Modern Greek varieties (Ralli, 2016); the role of the learned and non-learned level in verb-derivation in Modern Greek (Efthymiou, 2021); the adaptation of English loanwords in Polish verbs (Fisiak, 1985); understanding borrowing through derivational morphology of Czech verbs (Stephen, 2023); a descriptive and comparative study or loan verbs in Maltese (Mifsud, 1995); loanwords and Japanese verbs (Sato,1975); morpho-phonemic adaptation of English loan verbs in Lukabaras, Kenya (Sasala, 2022); middle Mongolian loan verbs they appear in Karachay-Balkar, Russia (Csáki, 2006); borrowing of verbal derivational morphology between Semitic languages: the case of Arabic verb derivations in Neo-Aramaic (Coghill, 2015); heavy and light borrowing of Arabic verbs in other languages such as Spanish, Malay, and African languages (Versteegh, 2011); Arabic and English loanwords in Bahasa (Al-Jarf, 2021a, Al-Jarf, 2009) and others.

Similarly, loan noun and loan verb adaptation and integration in Arabic have been the subject of research for a very long time. Numerous studies in the literature such as D'Anna (2018) investigated phonological and morphological adaptation of Italian loanwords in Libyan Arabic and found a light verb strategy, involving the use of a dummy verb usually 'to do' or similar verbs plus a noun or a frozen form of a borrowed verb as dār idīr 'to do'. He also found samples of extracted tri-consonantal and quadri-

consonantal roots from the original verbs treated as inherited ones. A relatively high number of highly integrated verbs exist in the language, in which a root has been extracted and made productive in the morphological system of Libyan Arabic.

Badarneh (2007) analyzed loanwords borrowed into Classical, Standard, and Colloquial (Jordanian) Arabic from English, French, Italian, Greek and Farsi. He described a number of phonological and morphological processes observed in his data part of which focused on derived verbs and gave examples to illustrate these processes.

Egyptian Arabic, as Hassan (2018) explains, adopts two strategies in loan verbs: insertion of a 'Light Verb Strategy'; and Direct Insertion with or without '*Reduction of the Root.*' While the Direct Insertion Strategy Without 'Reduction of the Root' is used almost exclusively in imperative loan verb. The same 'Reduction of the Root' strategy is open to any 'input form'. Egyptian Arabic assigns a root to each loan verb and the loan verb assumes one of the Egyptian Arabic verbal forms.

The morphological adaptations of English loanwords used in Modern Standard. Arabic was briefly described by Mohammed & Samad (2020) who indicated that MSA verbs are based on roots, and that most of the roots have three consonants as (k-t-b) and fewer verbs have four-consonant and more such as *z*- *l*-*z*-*l*, *b*-*r*-*h*-*n*. They classified MSA verbs as perfect, imperfect, and imperative. The adaptation of English words into verbs follows the grammatical rules of verb formation from nouns. They gave one example only of the English word "Facebook" which was adapted and treated as an Arabic word. The authors conjugated the verb /fasbak/ for the first, second, third person singular and plural in the perfect, imperfect and imperative.

The incorporation of English loan verbs in Yemeni Arabic and how they are integrated into its morphosyntactic system was examined by Al-Athwary (2023). Analysis of seventy borrowed verbs collected from different oral and written sources including local TV series and plays, YouTube videos, and followers' comments on social media, showed that Yemeni Arabic employs three main strategies in accommodating English loan verbs: (i) direct insertion with root reduction that is rarely used, (iii) light verb strategy, which was the most frequent, occurring in 50% of the data, and (iii) derivative loan verbs which represent a non-patterned strategy according to Wohlgemuth's framework. He concluded that foreign verbs can be directly borrowed in Yemeni Arabic, and the recent verbs borrowed from the Information Technology (IT) domain provide more insight into the various strategies of loan verb integration in the dialect.

A study by Al-Jarf (2021) analyzed a corpus of English, French, Italian, Latin, Greek, Turkish, Farsi and Aramaic loanwords borrowed in Arabic which have no derivatives in the doner (source) language but have derived forms in Arabic (the recipient language) showed variations in the number of forms derived from NATO, Mafia, federal, tension, nervous, hysteria, maquillage, aristocracy.. For example, Facebook is a noun in English which has no other forms derived from it, but in Arabic, Facebook users who are common people have derived the verb (to Facebook), the action noun مديزه (*Facebooking), and agent/doer form which is a sound masculine plural فيسبوكيون (*Facebookers). The acronym LASER was borrowed from English and the verb مليزر were derived, although no forms are derived from LASER in English.

In another study, Al-Jarf (2023a) analyzed a sample of native and loan acronyms in Arabic that are pronounced as a word and reported a variety of forms derived from acronyms pronounced as a word, whether they are native or loan acronyms as ISIS, HAMAS, FATAH, LASER, AIDS, NATO, WATA, GMC, CD, and RADAR. The most prominent and prolific acronym is DAESH (ISIS) which was coined during the Arab Spring. It has more than 50 derivatives with several derived verbs, nouns and adjectives and others as camma cammic acamic samic clam lurcealm camic samic clam lurcealm camic samic samic

The above literature review shows that the derivational patterns followed in deriving verbs from loanwords in Arabic have not received much attention in prior studies which have partially investigated the morphological adaptation of loan verbs in Standard as well as Arabic dialects such as Yemeni, Jordanian, Iraqi, Egyptian and Libyan Arabic. In those studies, focus was mainly on the Light Verb Strategy. Therefore, this study aims to explore the derivational patterns followed in deriving verbs from loanwords that Arabic has borrowed from several languages and several domains whether they are Arabized forms of the foreign verbs or derived from loan nouns that have no derived verbs in the doner/source language. It also aims to find out which verb derivational patterns

are followed, which derivational patterns are more productive; why verbs can be derived from some loanwords but not from others, and the constraints imposed on the derivation of verbs from loanwords.

Since the study of morphology, as Al-Jurf (2002) and Al-Jarf (1990) indicated, includes *derivation* (the process of forming words from bases or roots by adding affixes, by internal phonetic change that involves a change in the word class), *inflection* (change in the word form that indicates number, gender, case, tense, voice, mood, aspect, transitivity and comparison), and *compounding* (groups of two or more elements joined together and treated as a unit), this study will only focus on the derivation of verbs in their default form (the uninflected masculine, singular, past tense) whether transitive or intransitive. It will also focus on the derivation of any kind of verbs like tri-consonantal, quadri-consonantal and quinque-consonantal verbs, transitive and intransitive verbs, augmented verbs, verbs with different meanings such as reciprocity, movement, intensive, reflexive, estimative/declarative, causative, factive, numerically or temporally extensive verbs, verbs showing movement towards a place, entering a period of time, getting into a state or condition, acquiring a quality, and/or those expressing color, sound or movement. The inflected forms of derived verbs such as the feminine, passive, imperative , subjunctive, case, dual and plural forms, are not the focus of the study.

This study is significant as it is part of a series of studies by the author on the phonological, morphological and semantic adaptations that loanwords undergo as: derivation from native and loan loanwords and acronyms in Arabic (Al-Jarf, 2023a & Al-Jarf, 2021b); rule-based and idiosyncratic loanword plural forms in Arabic (Al-Jarf, 2024a); gemination and degemination before the feminine Sound Plural Suffix in Native and Loanwords in Arabic (Al-Jarf, 2024d); feminine sound plural ending in /ya:t/ and /yya:t/ in native and loan lexemes in Arabic (Al-Jarf, 2024b); feminine sound plurals with /h+a:t/ in native and borrowed words in Arabic (Al-Jarf, 2023c); word formation with foreign affixes (Al-Jarf, 2023b); word formation of hybrid compounds in Arabic (Al-Jarf, 2023d); Arabic word formation with borrowed affixes (Al-Jarf, 2014);_pluralization of borrowed social media terminology in colloquial Arabic (Al-Jarf, 2023c); translation students' difficulties with English neologisms (Al-Jarf, 2010); Arabic and English loanwords in Bahasa with implications for foreign language pedagogy (Al-Jarf, 2021a; Al-Jarf, 2009);

3. Methodology

3.1 Data Collection

A corpus of 186 loanwords used in Standard and Colloquial Arabic were collected from some Arab informants (relatives, friends, colleagues, students), social media (Facebook and X), some school textbooks, some prior studies, some internet glossaries and dictionaries as:

- Al-Jarf (2021)
- Abu-Hashimah's (2007)
- Abdul-Nasser (2018)
- Al-Baseeni (2014)
- Al-Aboudi (2005)
- Abdel Rahim (2011)
- Arabic Language Paradigms¹
- Arabic Words of Greek Origin²
- Arabized words from Persian.
- Arabized words. Riyadh Newspaper
- Diwan Alarabia. Morphological paradigms. grand terminological dictionary معجم المصطلحات الكبير.
- Foreign words in Arabic more than we imagine
- Non-Arabic words that we used in daily life.
- html.العربية-الفعل-صيغ-أوزان/html.
- Verb paradigms in Arabic³
- ألفاظ وكلمات دخيلة على اللغة العربية من لغات مختلفة
- http://arsco.org/article-detail-127-8-0 معجم لبعض الكلمات الدخيلة ومقابلاتها بالعربية

The corpus covers 22 loan verbs that are borrowed from foreign languages and used in CA as they are, i.e., without any phonological or morphological adaptations in Arabic. The other 164 verbs are derived from loan verbs that have been morphologically and phonologically adapted in Arabic and verbs derived from Proper Nouns (cities, countries, people), common nouns as well as technical terms from social media, political, medical, and psychological and other fields. They cover loanwords from English, French, Italian, Spanish, Greek, Latin, Farsi, Turkish and Aramaic, and words from Standard (SA) as well as Colloquial

أوزان العربية وصيغها 1

² ar.wikipedia.org/wiki/كلمات_عربية_من_أصل_يونإني#خ/ar.wikipedia.org/wiki

³ ar.wiktionary.org/wiki/تصنيف:أفعال

Arabic (CA). All 164 borrowings in the data are commonly used in everyday speech by educated, uneducated, specialized, and non-specialized Arabic speakers.

To be included in the corpus and subject to analysis, each borrowed lexical item should have at least one derived verb in Arabic whether it is an Arabized form of a verb in the doner language or whether it is derived from a loan noun with no derived verbs in the donner language. For example, Arabic has borrowings from Japanese such as كيمونو, *kimono, كيمونو ginkgo, يسامو*راي *samurai, shiitake, ينكي teriyaki, uewis usubi tofu, analysi, teriyaki, teriyaki, teriyaki, analysi, teriyaki, teriyaki, teriyaki, analysi, teriyaki, analysi, teriyaki, analysi, teriyaki, teriyaki, analysi, teriyaki, teriya*

This study does not claim that the sample of borrowings with derived verbs in Arabic is all-inclusive due to insufficient and inadequate resources and the continual appearance of new derived verbs.

While searching for loanwords from different languages, the author faced the following problems: (i) lack of resources that show all borrowings in Arabic from all languages or from a single language; (ii) a limited number of old borrowings from Farsi and Turkish or borrowings from English and French available in some Arabic online discussion forums, and Arabic language websites which duplicated the same list of borrowings, i.e., they copy and paste from each other; (iii) Paucity of Arabic dictionaries of etymology. The only dictionary of etymology that the author found was that by Abu-Hashimah's (2007), Al-Aboudi (2005) .(2005) and Abdel-Rahim (2011), but those dictionaries focus more on borrowings from ancient languages, Turkish and Farsi, give general words rather loan terms in medicine and other fields. Loanwords in the dictionaries are not listed according to the language from which they were borrowed. In some cases, the equivalent source words in the doner language is not given, there is no relationship between the loanword used in Arabic and equivalent used in the doner language, i.e., the process of change is not mentioned. The dictionaries do not give the derived forms from loanwords that have derivatives in Arabic. Some of the borrowings from modern languages such as English, French, Spanish, and Italian, are listed. Although Al-Maany Online dictionary, the largest and most comprehensive online Arabic language dictionary, which combines a number of dictionaries together, and has monolingual and several bilingual dictionaries lists the different meanings of a word according to its part of speech but rarely shows the word origin even if it is a borrowing.

While trying to validate the borrowings and their original form in their doner languages, the author faced a problem in finding an authentic, accurate resources in which she can check the origin of the word and the language from which it was borrowed. The author had to ignore some borrowings from Latin and Greek, because she could not verify the exact Greek and Latin source word due to the phonological changes that have historically taken place in the borrowed word in Arabic.

3.2 Data Analysis

All borrowed items were entered into a table with all the Arabic derived verbs next to each. The borrowings were classified according to the doner language, the type of item borrowed (verb vs noun), whether the verb is transitive (VT) or intransitive (VI), the meaning and the donner and recipient language. Words were also grouped according to 9 Arabic derivational verb paradigms.

The study did not focus on the phonological adaptation of the loanwords in the corpus, nor on the semantic changes that have taken place in some borrowings. It did not focus on the dual and plural forms of the verbs, nor on the tenses. Results of the analysis are reported qualitatively and quantitatively.

3.3 Validity and Reliability

Loan verbs and loan nouns in the corpus and their derived verbs were verified in some Arabic dictionaries such as Al-Munjid paper dictionary and the *Dictionary of Foreign Words in Arabic* by Abu-Hashimah's (2007), and as mentioned in some online discussion forums and Arabic Language Websites. The derived verbs listed were also verified by 5 professors of English and Arabic linguistics who are native speakers of Arabic, as well as 5 Arab senior college students majoring in English and translation. Disagreements were solved by discussion.

4. Results

4.1 Underivable Loan Verbs in Arabic

Data Analysis showed that in 12% of the loanwords in the sample, some Arabic speakers use foreign verbs as they are in the doner language as in *mention* (منشن; *comment* (الج لوك *kike kike i i goad in the sample in the doner is the sample in <i>the sample in the samp*

4.2 Derived verbs in Arabic as Equivalents to Loan Verbs in SL

In 88% of the loanwords below in the sample, presented in sections 4.2, 4.3 & 4.4, the foreign verbs are derived either from a loan verb or a loan noun following a variety of verb derivational patterns, which in turn are based on the extraction of 3, 4, and 5 consonants and adding vowels in between to form roots or base forms. These roots are the uninflected masculine third person singular past tense which constitutes the default form on the basis of which all derived forms in Arabic are created and inflectional morphemes that mark number, gender, person, tense, voice, are added.

The first major result of the data analysis shows that 41% of the loanwords herein are an Arabization of corresponding verbs in the doner (source) language whether it is English, French, Italian, Farsi, Turkish, Aramaic or Greek as in *amalgamate* ملغم /malɣam/; Americanize /amrak/; Anglicize /amrak/; Anglicize /amrak/; Anglicize /amrak/; Automize 'atmat/; Balkanize' /atmat/; Balkanize' /augaan/; Cancel / مربل /kasal/; capture /asTar/; charge battery کرمل /karmal/; carbonize /karban/; Catheterize /agaSTar/; charge battery / dabbal/; fabricate /kabfar/; cushion 'kafnat/; damga (Tr) فنش /fannaf/; format 'kauwar/; cushion / دبل /dabladz/; double / dabbal/; fabricate /fabrak/; filter / subsch/; filter / subsch/; finish فنش /fannaf/; format 'kafrag/; hydrogenize /kackar/; hang / kakar / hannag/; hashtag 'kantag 'kantag/; hydrogenize /kackadz/; ionize /jalfan/; hack /makar/; hang / hashtag / hashtag 'kastatag 'maynat/; massage (Fr) /akasadz/; mechanize / maynat/; massage (Fr) / كسد /massadz/; mechanize / maysan/; Italianize /maynat/; massage (Fr) منش /massadz/; mechanize / maynat/; massage (Fr) منش /massadz/; mechanize / maynat/; mention / uzco /massadz/; nitrogenze / maynat/; massage (Fr) منش /massadz/; mechanize / maynat/; mention / aksadz/; park a car / massadz/; mechanize / maynat/; massage (Fr) منش /massadz/; mechanize / maysat/; ada car / maysadz/; park a car / massadz/; nitrogenze / nassadz/; nitrogenze / nassadz/; mechanize / maysadz/; park a car / massadz/; mechanize / maysadz/; park a car / massadz/; park a car / massadz/; mensesage / maysadz/; park a car / massadz/; mechanize / massadz/; mechanize / maynat/; kauce / maynat/; baster/; polymerize / hastadz/; oxygenate / maynat/; care / maysadz/; park a car / massadz/; mechanize / massadz/; mechanize / massadz/; mechanize / massadz/; mechanize / massadz/; massadz/; massadz/; park a car / care / basmat/; care / basmat/; maynat/; baster/; polymerize / maysadz/; sou-titer (Fr) / auc / sayyav/; séchoir (Fr) hair dryer (N) umue (V, to blow dry) /safwar/;

In 3% of the loan verbs, two verb forms are derived from the loan verbs, following two derivational patterns, each of which having a different structure, meaning and sometimes one form is transitive (VT) and the other is intransitive (VI) as in the examples in Table 1.

Loanwords	Verb 1	Verb 2
Democratize	/damaqraT/ (VT, to democratize) دمقرط	/daqraT/ (VT, to democratize) /
Freeze food	/farraz/	فرزن /farzan/ (VT, CA, to freeze)
Ideologize	أدلج?adla dʒ / (VT, to ideologize others)	ja?adladʒ / (VI, to ideologize oneself) تأدلج
Liberalize	labran/ (VT, liberalize others)/ لبرن	talabran/ (VI, to become liberal)/ تلبرن
Vaccinate	tafaksan/ (VI, take the vaccine)/ تفکسن	فكسن /faksan/ (VI, took the vaccine, gave the vaccine)

Table 1: Loan Verbs With Two Arabized Verb Forms in Arabic

4.3 Derived verbs in Arabic from Loan Nouns with No Derived Verbs in SL

The second major finding is that 59% of the verbs are derived from loans nouns, 18% of which are Proper Nouns. Although the doner (source) languages of these loan nouns have no derived verbs, Arabic speakers derived a verb and in some cases two verbs following the verbs derivational pattern in Arabic regardless of the source language as in the examples in Table 2 and 3 below. Arabized loanwords phonological adaptation

Examples	Examples
• AIDS (N) > أيْدَز /?aydaz/ (V, CA, caught AIDS)	• Internet ?/ أنتر Anter/ (V, to post on the Internet)
 Antica antique أنتيك (N) > أنتيك /t-?antak/ (VI, CA, dress up) 	• Kalo -pous mould قولب< قالب /qawlab/ (V, to shape by
	putting in a mould)
 Asphalt (N) > سفلت /saflat/ (VT, to pave) 	• Keranis brick قرمید /qarmad/ قرمد (V, to build with bricks)
• Bahşiş (Tr) (tip)	• Kurak کڙك (N, shovel) کريك (karrak/ (V, to shovel soil)
 Balsamon بلسم < بلسم /balsam/ (VT, treat hair with balsam, 	• Kirbac كربج (whip) > كربج /karbadʒ/ (V, beat with a whip)
heal wounds)	
• Baltaci بلطجي bully, thug > بلطج /naltadʒ/ (VT, CA, bully)	• Kyrgyzstan >قرغز /qarɣ az/ (VT, to naturalize, make Kyrgyz in form or character)
• Baltic > بلطق/ (VT, to	• LAZER > ليزر /layzar/ (VT, use LASER)
 Billion Milliardaire > بلين /balyan/ (VI, CA, become a 74amsara74ire) 	• Luck بخت< بخت /baxxat/ (VT, give luck, be fortunate)
 Boshevik - بلشف /balʃaf/ (VT, to make something 	• Million Millionaire > ملين /malyan/ (VI, became a
Bolshevik)	millionaire)
• Cancer > /kansar/کنسر (V, got cancer)	• Meter /74amsar/ measure with a measuring tape
• Candela lantern قندل (N,) عندان (N) قندل (N) قنديل (VI to be loud	• Moda mode موضة fashion / تموض (VI, CA,
and clear, soar)	follows fashion)
• Capsule کبسل< کبسولة /kansal/ (V, to put in a capsule)	• Montage (Fr) منتج <مونتاج (mantadz/
• Carton (box) کرتن<کرتون (kartan/	• Nervous / نفرس /narfaz/ (VI, CA), نفرس /narfas (VI, SA Ar)
 Cellophane سلفن < سلوفان / salfan/ 	 Over اوفر < < اوفر < < اوفر < <
• Ceramic > سرمك /sarmak/ (VT, CA, tile floor with ceramics)	 Pandochaion hotel فندق > فندق /fandaq/ (VT, establish hotel)
/qantar/ قنطر< قنطار Centenarium •	 Pervaz برواز (frame) Tr / برواز /barwaz/ (VT, to frame)
 Chartes paper معطر و معطر و معطر (V, to wrap in 	 Ptolemy برور (name) بطلم< بطلم Ptolemy /ballam/ (VT, adopt Ptolemy's
paper)	ideas)
 Chauffeur > شوفر /Jawfar/ (VT, CA, drive someone) 	• Puncture بنشر /banʃar/
 Chic > ليولو (tjayyak/ (VI, CA, dress up) 	 Shiffre (Fr), Tr sifre > شفر <i>f</i>affar/ (VT, cofify)
 Corona کورن (۷٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰٫ ۵۰	• Sigarro (cigarette) سجر< سيجارة (saggar/ (VI, VT, CA, to
	smoke a cigarette)
• Doctor > دکتر /daktar/ (V, call/treat someone doctor)	• Spodos سماد fertilizer > سماد /74amsar/ (V, to fertilize)
• Douche (Fr) دوش < دوش (V, to take a shower)	• Tactic > تکتك /taktak/ (VT, to make/prepare a tactic)
• Ekleipsis (Gr, N) eclipse > کسف/kasaf/ (V, to)	• Takin (set) طقم< طقم /Taqqam/ (VT, CA, match clothes) (N, set)
• Engage (Fr) انجاجيه أنجج (Angadz/	• Taxi = hail a taxi > تكّس /takkas/ (VT, CA, hail a taxi)
• Facebook > فسبك (V, to browse FB)	• Tension تنشن< تنشن (VI, to be tense)
• Fattura (lt) > فوتر /fawtar/ (V, to bill)	• Turkey ترك< تركيا/tarrak/ to make Turkish
• Foreigner فرنج< الافرنج الفرنجة farnatdʒ/ foreignize	 Vernice ورنیش /warnaʃ/ (V, cover with varnish)
• Gözlük > کوزلک > کوزلزک (kazlak/	• Veterinarian بيطر< بيطري /bayter/ to treat animals
• Garage / کرج السیارة < کراج Garage	 Virus > منه منه منه منه Virus > منه منه منه Virus / tfayras/ (V, catch a virus)
• Garden جو بستن جو ستان بستان (V, to garden)	 Visa (CA) فيز < فيزا vayyaz / issue a visa, get a visa
• Glass بلور < بلور < بلور (V, elaborate)	• X (put an X on sth), أكس عليه (VT, CA)
 Kalo-pous mould قولب < قالب /qawlab/ (V, to shape by 	• Zımpara صنفرة (emery sand paper) – صنفرة (VT,
putting in a mould)	smoothen with sand paper)
• Gripe/grype (Fr) > (Fr) جرّب /garrab/ (VI, have the flu)	• Zone زنر (N), زنار zannar/ (VT, surround)
• Gümrük (Tr) جمرك (customs) > جمرك /dʒamrak/ (VT, charge tax)	• أستذ ustath Teacher /أستذ/?Astað/ (V, call somebody teacher)
• Hormone / هرمن /harman/ (VT, add hormones)	• بنج (Farsi) بنگ (Farsi) بنگ (Farsi) بنگ (VT, CA anesthetize)
• Hyper هبر < هيبر /haybar/ (VI, CA, be hyperactive, overact)	• دجال humbug Juggler > دجل /dadʒdʒal/ (VI, tell lies and
• Hysteria هستر< هسترد هستیریا /hastar/ (VI, CA, lose mind)	tricks); يدجل (V, tell lies and plays tricks)
 Influenza > فلوز /falwaz/ (VI, CA, caught the flu) militia - militia 	/namðhadz/ (to model) نمذج< (form, model) نموذج خنموذج • نموذج موذج • المطعل مع المطعل مع المطعل المع
• militia > ملشن /malʃan/ (VT, turn into a militia.	Azbak/ to make Uzbek?/ أزبك< اوزبك Uzbek •

Table 2: Derived Verbs in Arabic from Loan Nouns with No Derived Verbs in The Doner Language

In 12.5% of loan nouns, two verbs are derived from loan nouns following different derivational patterns, having a different meaning and sometimes one verb is transitive (VT) and the other is intransitive (VI) (See Table 3).

Loanwords	Verb 1	Verb 2
Coiffure (fr)	• تکوفر /tkawfar/ (VI, to style own hair)	• کوفر /tkawfar/ (TV, to style someone's hair)
• Cologne (FR) كولونيا	• تکلن /tkallan/ (VI, to put perfume)	• تکلون /tkalwan/ (VI, to wear perfume)
Federal	• تفدرل /tafadral/ (VI, become federal) تفدرل	• فدرل /fadral/ (TV, made federal)
• Gypsum	• جبّس/dʒabbas/ (VT, to put in a cast)	• جبصن /dʒabSan/ (VT, CA, put in a cast)
• Klima اقليم	• أقلم/ aqlam/ (VT, to adjust someone) أ	• تأقلم /ta?aqlam/ (VI, acclimatize)
• Manicure (fr)مانیکیر	• منكر /mankar/ (VT, cover with nail polish)	• تمنكر /tamankar/ (VI, cover own nails with nail polish)
• Maquillage(Fr)مکیاج	• مکيج /makyadʒ/ (VT, put makeup for someone)	• تمكيج/(VI, put makeup on own face)
• Mascara ماسکرا	• مسکر/maskar/ (VT, put mascara for someone)	• تمسکر/tamaskar/ (VI, put mascara on own eyes)
فرعون Pharos •	• تفرعن /tafar؟an / (VI, to behave arrogantly)	• فرعن /far؟an/ (VT, motivate someone to disobey)
• Philosophy فلسفة	 تفلسف /tafalsaf/ (VI, to 	• فلسف /falsaf/ (VT, to justify something)
program برنامج (Farsi) برنامه •	• برمج /barmadʒ/ (VT, program)	• تبرمج /tabarmadj/ (VI, to program)
soap صابون soap •	• صبن /Sabban/ (VT, clean with soap)	• صوبن/Sawban/ (VT, wash with soap)
• بهار (Farsi) Spice	 بهر /bahhar/ (VT, add spices to food) 	• تبهر /tabahhar/ (VI, be spiced)
Trench خندق (Farsi) کندک •	• خندق /xandaq/ (V, dig a trench)	• تخندق /tazandaq/ (VI, hide in a trench)

Table 3: Loanwords in Arabic with Two Derived Verbs

4.4 Patterns Used in Deriving Verbs from Loan Nouns in Arabic

The derivational patterns followed in deriving verbs from loan verbs or loan nouns in Section 4.4 are described below. The following sections show that 2% of the verbs follow a tri-consonantal derivational verb pattern, 82% follow one of 5 quadri-consonantal derivational patterns, and 16% follow one of 3 quinque-consonantal derivational patterns, each of which is described below.

/fa^sala/ فعل fa^sala/

Unlike Arabic where the tri-consonantal derivation pattern is used in creating a large number of verbs, in loanwords only 1.5% have verbs derived from the triliteral paradigm (Ar, as in damga دمغ (Tr, N, stamp) > دمغ /damaɣa/ (VT, to stamp); مربغ /Sabaɣa/ (VT, to dye); and Ekleipsis (Gr) eclipse عسوف > كسف > (kasafa/ (VI, to eclipse). These derive verbs follow the same triconsonantal pattern and rhyme with Arabic words as لمف > (VI, to shine); فجع /fadʒaa? (VT, to scare); مربع /qaSada/ (VT, intend, head for), مرب /fariba/ (VT, VI, drink); كسى /Kasara/ (VT, broke). In deriving both sets of verbs (native and loanwords), 3 consonants are extracted, and vowels are inserted in between to form a root (base form) with the sequence CVCVC.

In 46% of the loanwords in the sample, the derived verbs follow the derivational pattern 46% df the loanwords in the sample, the derived verbs follow the derivational pattern 46% df the loanwords in the sample, the derived verbs follow the derivational pattern 46% df the cases in this category, the derived verb is an Arabization of the loan verbs in the source language, whether they are English, French, Farsi, Turkish or others. All of the loan verbs in this set are used in both Standard and Colloquial Arabic as they are technical terms used in chemistry, medicine, politics, and others. In all of those examples, 4 consonants were extracted, and the same /a/ vowel is added after C₁ and C₃ to form a root with the sequence CVCVC as in the following examples:

Amalgamate > كمل / anglaz; Anglicize > نجلز / naglaz/; Balkanize / لبقن / balqan/; caramelize > كمل / larmal/; Catholicize > / kalwar/; Catholicize > / kalwar/; doublage/doubler / دبلج / dabladz/; fabricate / فرنج / fabrak/; Filter / فرنج / fabrak/; Filter / فرنج / fabrak/; Filter / فرنج / fabradz/; italianize / kalwan/; magnetize / active / mawnat/; mechanize / ميكن / maykan/; nitrogenize / active / mawnat/; pasteurize / mawnat/; mechanize / mawnat/; nitrogenize / italianize / italianize / italianize / mawnat/; mechanize / mawnat/; mechanize / italianize / mawnat/; nitrogenize / mawnat/; nechanize / mawnat/; nitrogenize / italianize / mawnat/; pasteurize / mawnat/; mechanize / mawnat/; nitrogenize / italianize / talfan/; televise / fasfer/; Polymerize / pastar/; Romanize / cout / satradz/; pasteurize / baster/; Romanize / italfaz/; sou-titrer / sou-titrer / satradz/ (VT, Transfer the audio text of a movie into written text); Catheterize / acai / qasTar/ (VT); Kyrgyzstan / acai / (V, to naturalize, make Kyrgyz in form or character).

The same quadri-consonantal paradigm is followed by Arabized loan verbs used in Colloquial Arabic as in:

2) Cancel كنسل /kansal/ (CA); Capture انجاجيه /kabʃar/ (CA); cushion كشنت /kaʃnat/ (VT, had/ use a cushion) (CA); Engage > انجاجيه /angadʒ/ (CA); format فرمت /farmat/ (CA); hashtag فرمت /haʃtag/ (CA); mention منشن /manʃan /CA); park / (VT, VI, CA; systematize مستم /sastam/ (VT, CA).

In 26% of the cases, the verb is derived from a loan noun. As in the previous set of verbs, 4 consonants are extracted from each noun and the same vowel /a/ is added after C_1 and C_3 to form a quadri-consonantal root with the structure CVCDVC as in the examples in Table 4.

Examples	Examples
Air-Conditioner > كندش/kandaʃ/ (VT, to cool with AC);	• LAZER > ليزر /layzar/ (treat with LAZER)
AIDS) أيْدَر (VI, CA, catch AIDS);	 Montage (Fr) > منتج /mantajdz/;
baqʃ aʃ (V, give tip)/ بقشش< بقشیش (Tr) (tip)	 Pandochaion (Gr) hotel فندق < فندق /fandaq/ (VT, establish hotel)
Asphalt > سفلت /saflat/ ();VT, pave street	 Ptolemy بطليموس (Arabized) بطليموس /baTlam/ (VT, apply Ptolemy's philosophy or theory)
Balsamon (Gr) balsam بلسم< بلسم /balsam/ (V, treat hair with balsam, heal wounds)	• Puncture > بنشر /banʃar/ (VI, have a flat tyre)
Baltaci (Tr) بلطج bully, thug > بلطج /balTadʒ/ (VI, bully);	• Tactic > تكتك /taktak/ (VT, VI, to make/prepare a tactic)
Baltic بلطق /balTaq/ (VT, change identity to Baltic)	• کندک خندق Trench (Per) < خندق Trench (Per) < خندق (VT, dig a trench);
Bolshevik > بلشف /balʃaf/ (VT, to make)	• Uzbek > أزبك /?azbak/ (make Uzbek in character or nationality)
Candela (Latin) lantern قندل< قنديل (VT, be loud and clear, soar)	 vernice (Sp/ It) ورنش< ورنیش (V, cover with varnish)
Capsule کبسل< کبسولة /kabsa/ (VT, to put in a capsule)	• veterinarian بيطري (Arabized) /bayTar/ (VT, treat animals)
cellophane > سلفن /salfan/ (VT, to wrap in cellophane)	• هندسة (Farsi) هندس > engineering هندسة (Farsi) إندازة
(hoard) /qanTar/ (hoard) قنطر < قنطار (Latin	• برنامه (Farsi) برنامه / program برنامج (Farsi) برنامه (V, program برنامه)
Ceramic > سرمك /sarmak/ (VT, to tile the floor with ceramics)	 برواز Pervaz (Tr) (frame) برواز /barwaz/ (VT, to frame)
Chartes (Gr) paper/ قرطس< قرطاس/qaTas/ (VT, to wrap in paper)	• بلور (Farsi, Glass > بلور /balwar/ (V, elaborate)
Facebook >فسبك /fasbak/ (V, to browse FB)	• سمسار (Aramaic) Broker > سمسار /samsara/ (V, charge a brokerage fee)
Gümrük (Tr) جمرك (customs) > مرك /dʒamrak/ (V, charge tax)	• فهرس /fahras/ (VT, to index) فهرس Index فهرس (N, index)
hysteria > هستر/hastar/ (CA, to lose mind)	• عسکر (V, militarize) که (Farsi) Soldiers (V, militarize) دسکر عسکر (
Reranis (Gr) brick قرمد< قرمید /qarmad/ (V, to build with red	• Zımpara (Tr) صنفر (emery sand paper) > صنفرة (Sanfar/ (V,
bricks)	smoothen with sand paper)
Billion, Milliardaire > بلين /balyan/ (VI, to hoard billions)	• نموذج (Farsi, (N, form, model) > نمذج /namðadʒ/ (VT, model)

Table 4: Derived Verbs Form Loan Nouns that do not have Derived Verbs in

The same paradigm is used to derive verbs from loan nouns. These were derived by common Arabic speakers and are used in Colloquial Arabic as in the following examples:

- Influenza, flu >فلوز /falwaz/ (CA, catch the flu)
- Cancer > کنسر /kansar/ (VI, CA, got cancer)
- Doctor > دكتر /daktar/ (VT, CA, call/treat someone doctor)
- o Gözlük (Tr) کوزلک eye glasses > کوزلزک /kazlak/ (VT, VI, CA, to wear glasses)
- Hyper > هيبر /haybar/ (VI, CA, excited, hyperact)
- Kirbac (Tr) کربج (whip) > کربج /karbadz/ (VT, CA, beat with a whip)
- o Million, millionaire > ملين /malyan/ (CA, hoard millions)
- Nervous > نرفز نفرس /narfaz/ (VI, CA), /narfas/ (VI, Saudi Ar)
- o Séchoir (Fr, N) سشوار hair dryer> سشور /saʃwar/ (VT, CA, blow dry)
- o frein (Fr) فرمل<(N, brakes, Arabized) فرمل<(VI, brake)

The derived verbs in this section rhyme with Arabic verbs derived according to the same derivational patter as جلْبَب /dʒalbab/ (VT, to dress someone in Jilbab); حمدل /maðhab/ (VT, ideologize); معدّ هي /maðhab/ (VT, ideologize); حمدل /Hamda/ (VT, to say thank God); /maðhat/ (VT, to say thank God); معدل /kabrat/ (VT, to add sulphur); سعّود /kabrab/ (VT, electrify); شعلل /ʃallal/ VT, enkindle); سأسآل /salsal/ (VT, serialize).

/fa??al/ فعل fa??al/ فعل 4.4.3

In 19% of the loanwords in the sample, derived verbs follow the derivational patten فعّل /fa؟?ala/ and /fa??al/ before a pause which has the structure CVCCVCV as in verbs in sets 1, 2 & 3 in this section. Verbs in set 1 are derived from loan verbs, whereas

those in set 2 are derived from loan nouns. Some verbs are transitive (VT), others are intransitive (VI) as shown next to each verb. Those in sets 1 & 2 are used in Colloquial Arabic, whereas those in set 3 are used in Standard Arabic.

- 1) Charge battery > مرج /ʃaradj/ (vt); check > سرك /ʃayyak/ (vt, vi); double (v) دبل /dabbal/ (vt); finish/ (vt, fired from work); hang مسج /hannag/ (vi); massage (fr, vi) > مسج /massadʒ/ (vt); message (vt) مسج /massadʒ/ (vt, send a message); save مسج /sayyaf/ (vt); share v روم الكاميرا /ʃayyar/ (vt); zoom / زوم الكاميرا /zawwam/ (vt).
- 2) Douche (Fr, VI) shower کرو (n); دوش) /dawwaf/ (v, to take a shower); garage جرّب /karradz/ (park); gripe grippe (fr, flu) متر /garrab/ (v, caught the flu); hacker هکر /hakkar/ (vt); kurak (tr) کریك (n, shovel); meter / متر /mattar/ (vt, to measure with a measuring tape); sapo-onis (latin) متر /sabban/ (vt, clean with soap); shiffre (fr), tr sifre > /saggar/ (vt, vi, to smoke a cigarette); takim (tr) set طقم < طقم < طقم (vt, sigarro sp/ it مسجّر /takkas/ (vt, hail a taxi); visa jac / (vt, issue a visa); x> متر /takkas/ (vt, to put an x on something, cross out); بنگ تـنْج (farsi) anaesthesia > (vt, to put an x on something, cross out); بنگ (farsi) spice) بهار (vt, to add spices); دجال (farsi) anaesthesia > دجل /dadʒdʒal/ (vt, tell lies and plays tricks); ogrip) (gr) zone >/zannar/ juggler , humbug; شوب ;(n, telling lies and tricks) / دجل
- 3) Latinize سمد /dʒabbas/ (v, to put in a cast) ; spodos (gr) سمد /sammad/ (vt, to fertilize); سمد /faxxax/ (vt, to trap); فخ (aramaic) trap/ فخخ /faxxax/ (vt, to trap); نزك د تركي ركي (aramaic) trap/ فخ

The derived verbs in the three sets rhyme with Arabic native words that have the same derivational pattern and the same structure CVCCVCV as in جسّم /SAɣɣar/ (VT, minimize, make smaller; عمّر /ammar/ (VT, build, construct); محمّد /Sammad/ (VT, baptise); جبّم /dʒassam/ (VT, embody); محمّد /dʒassam/ (VT, embody); محمّن /faHHam/ (VT, lubricate); درّب /darrab/ (VT, train); شحّم /sallam/ (VT, shake hands); درّب /sarrab/ (VT, train); محمّن /sallam/ (VT, shake hands); محمّن /sarrab/ (VT, train); محمّن /sallam/ (VT, shake hands); محمّد /sarrab/ (VT, train); محمّن /sallam/ (VT, operate, recruit); عور /fawwadʒ/ (VT, send in groups; محمّن /Saffar/ (VI, become pale, reset to zero); غزد غزد /ɣarrad/ (tweer); محمّ /karras/ (VT, dedicate); ترب /VT, crown).

Whether the verbs are derived from native Arabic and loanwords, both are augmented verbs in which C₂ in the original triconsonantal root فعل /sal/ is geminated to create the quadri-consonantal root فعل /sal/.

/af fal/أفعل /af ٩al/

In 6%, the foreign verbs are derived according to the quadri-consonantal derivational pattern \hat{a} /afsal/, where 4 consonants are extracted from the verb with vowels inserted after C₁ and C₃ to create the sequence VCCVC as in the following examples:

- Afghanize > أفغن /afɣan/ (VT, make Afghani in character or nationality)
- AIDS (N) > أيْدَز /?aydaz/ (V, CA, caught AIDS)
- Americanize > أمرك/amrak/
- Automize اتمت ²atmat/
- Ideologize > أدلج /?adla dʒ / (VT, to ideologize others)
- Internet / أنتر
 /?antar/ (V, to post on the Internet) (CA)
- Israelize / اسرل
- klima أقلم< اقليم aqlam/ (VT, to adjust someone)
- Oxidize > اکسد /?aksad/ (VT)
- oxygenate اكسج /?aksadz/
- Uzbek اوزبك > اوزبك /?azbak/ to make Uzbek
- أستاذ (Farsi) Ustath Teacher / أستذ</r>

The derived verbs here rhyme with Arabic native verbs having the same derivational pattern as أنكر/?aHraq/ (VT, to burn and /?ankar/ (VT, deny); أسهب) ashab/ (VI, VT, explain in detail), أفسد /afsad/ (VT, spoil, corrupt). Although these Arabic examples follow the derivational pattern أفعل /afsad/, some are augmented (أسهب) ankar/, أنكر ?ankar/, أنكر ?ankar/, أحرق) ahraq/; أحرق/ ahraq/; أفعل /afsad/), others are not (أسهب).

The native verbs are augmented verbs where the initial prefix /?a/ is added to the intransitive tri-consonantal root to form a quadriconsonantal transitive root. On the contrary, the verbs derived from loanwords in this category are not augmented verbs.

/fa٩an/ فعلن fa٩an/ فعلن /fa٩an/

In 6% of the loanwords, the derived verbs are coined following the derivational pattern فعلن /fa؟lan/ which is a quadri-consonantal verb having the structure CVCLVC. Five verbs are Arabized forms of the verbs in this set are Arabized *carbonize* / كربن /*karban/; galvanize* / عثمن / *galvanize* / عثمن / *kartan/; cellophane* / كرتن / *kartan/; carton (box)* / كرتن / *kartan/; cellophane* / محفن / *a*

سلفن/salfan/ (VT, wrap in cellophane); Hormone / هرمن</downselfan/ (VT); بستان بوستان (Vasulan/ (VT, wrap in cellophane); Hormone / مرمن</downselfan/ (VT, to garden); cologne (Fr) / كلن</downselfan/ (VI, to be tense); Park / ينشن ranfan/ (VI, ca); Tension / بركن</downselfan/ (VI, to be tense); Park / ينشن / alfan/ (VT, park the car)/; gypsum / dzabSan/ (VT, CA, put in a cast); alkaline / قلون (VT, alkalinize); militia / ملشن //alfan/ (VT, turn into a militia.

All the derived verbs in this set rhyme with the Arabic native verbs as شرعن /ʃarʕan/ (VT, to legitimize); خرفن /xarfan/ (VI to become senile); أردن ; /Hasban/ (VI, to say God is suffice); شريطن ; /avTan/ (VI, to have patina) ; أردن ; /jayTan/ (VT, to satanize); شيطن /HamDan/ (VI, turn sour, spoil); سودن /sawdan/ (VI, turn black) which are quadri-consonantal and have the structure the CVCLVC.

In Arabic, the derivational pattern فعلن /faSlan/ is an augmented verb in which the consonant /n/ is added at the end of the root extracted from a noun to derive the intransitive quadri-consonantal verb root. A final /n/ is added even to some Arabic nouns that do not end with an /n/ as in سودن /HamDan/; خضرن (VI, turn black); خرفن /xaTan/ and so on. Interestingly, all the English loanwords in this section end with a final /n/ which necessitates the addition of a final /n/ as a fourth consonant in root verb as it is the case with native Arabic words that end with an /n/.

4.4.6 Quadri-consonantal Derivational Pattern فوعل /faw faw faw

In 6%, the derived verbs follow the quadri-consonantal derivational pattern فوعل /faw?al/ which has the sequence CVCCVC as in the following examples:

- Corona > کورن
 (VI, caught corona)
- Soap > صوبن (VT, Wash with soap)
- Chauffeur > شوفر /Jawfar/ (VT, to drive by a chauffeur)
- o Kalo -pous (Gr) mould قولب< قالب /qawlab/ (V, to shape by putting in a mould)
- o boussole (Fr), bussola (It), buxula (Latin) compass بوصل < بوصله /bawSal/ (VT, direct the compass)
- o المولة /Sawmal/ (VT, to fix with a nut)
- o دوزن

 دوزن
 /dawzan/ (VT, attune musical instrument)
- Over اوفر < اوفر < اوفر (VI, to exaggerate)
- o Fattura (It, Sp) فوتر< فاتورة /fawtar/ (V, to bill)
- Focus > فوكس /fawkas/ (VT, VI, focus)
- o Go >جوتر /go:tar/ (VI, go)

These derived verbs rhyme with Arabic words as كوفل /kawfal/ (VT, swaddle); حوقل /Hawsab/ (VT, VI, compute); حوقل /Hawqal, (VI, say no power without Allah's help) which have the same derivational patterns. In the loan and native verbs, the noun from which the verbs were derived contain a long /a:/, /u:/ or /o:/ which are changed into the diphthong /aw/ in the derived verb by a mutation process.

/tafa flal/ تفعلل /tafa الما /tafa الما /tafa الما /tafa الما /

In 7% of the loanwords, the verbs are derived following the pattern تفعلل /tafa lala/ by extracting five consonants and inserting short vowels in between to form a root with the sequence CVCVCCVC as in the following examples:

- antica (Sp/ It)> أنتيكا antique >/t?antak/ (V, dress up)
- Coiffure (Fr)> تکوفر /tkawfar/ (VI, to style own hair)
- Democratize > دمقرط /damaqraT/ (VT, to democratize);
- Federal > تفدرل /tafadral/ (VI, become federal)
- klima اقلیم < اقلیم /ta?aqlam/ (VI, acclimatize)
- Manicure (Fr)> تمنكر< مانيكير /tamankar/ (VI, cover own nails with nail polish)
- maquillage(Fr)> تمكيج <مكياج /tmakyadʒ/ (VI, wear makeup on own face)
- Mascara ماسكرا /tamaskar/ (VI, put mascara on own eyes)
- Philosophy تفلسف< فلسفة /tfalsaf/ (VI, pretend to be smart, be pedantic)
- Virus > تفيرس /tfayras/ (VI, catch a virus)
- برنامج (Farsi) برنامج (rogram> تبرمج/tabarmadz/ (VI, has been programmed)
- trench / تخندق (Farsi) خندق (tazandaq/ (VI, hide in a trench)

The derived verbs rhyme with native Arabic verbs that are derived according to the same derivational pattern as تمسخر /tamaszar/ (VI, make fun of, ridicule); تمصلح /takahrab/ (VI, was electrified); تمسكن /tamaskan/ (VI, to beg with humiliation); المصلح /tamaSlaH/ (VI, to follow his own interest).

The derivational pattern تفعلل /tafa?lal/ is an augmented verb where the prefix /ta/ is added at the beginning of the transitive quadri-consonantal base verb to derive a quinque-consonantal intransitive verb root. Therefore, all the derived verbs in the above

examples are augmented verbs, which means a prefix is added to derive the intransitive form of the verb especially in the case of loanwords with two derived verbs.

/tafa?! 4.4.8 Quinque-consonantal Derivational Pattern تفعل /tafa

In 5%, loan verbs as *triple* (VT) and *ionize* (VI), and loan nouns as *moda* (Sp/It) fashion موضة have the derived verbs تربل 'ja?adladʒ / (VI, to ideologize oneself) تربل 'trabbal/ (VT); تأين 'ta?ayyah/ (VI); and تموض traawwaD/ (VI, dress according to latest fashion); Cologne (FR) تهار (Farsi) Spice / tkallan/ (VI, to put perfume); gypsum / tababhar/ (VI, be spiced); Sapo-onis صابون soap - تصبن 'tSabban/ (VT, clean with soap); chic > (Jayyak/ (VI, dress up); ang / tabahhar/ (VI, be spiced); Sapo-onis صابون soap - تصبن 'tSabban/ (VT, clean with soap); chic > (Farsi) Spice > يهار 'tabahhar/ (VT, has been spiced) that follow the quinque-consonantal derivational pattern تفعّل 'tafa?sal/. Here, 4 consonants are extracted, C₃ is geminated, and vowel /a/ is inserted after each consonant, i.e., each word has the structure CVCVCCVC as in the Arabic native words تحقير 'taSawwar/ (VI, accumulate); تجمع 'tadʒamma?/ (VI, to gather); تعقد 'tafaqqad/ (VI, complicate); and صورة /Su:ra/ picture (N) تحقير 'tadʒaddad/ (VI, picture oneself) تصرر 'taharrab/ (VI, beautify oneself); rane (VT, examine carefully); تجدد 'tadʒaddad/ (VI, to renew itself/oneself); and 'taharrab/ (VI, to evade/ that rhyme with them.

The derivational pattern لنعي /tafa!// is an augmented verb in which the middle consonant of the tri-consonantal root /fa?al is geminated to form a quadri-consonantal root, then the prefix /ta/ is added to the quadri-consonantal root to form a intransitive quinque-consonantal verb root. Interestingly both roots (أدلج & /alla dʒ/, are derived from *ideologize* by adding an initial /ta/ to the quadri-consonantal root root.

/tafa!lana/ تفعلن A4.9 Quinque-consonantal Derivational Pattern/

The data revealed that 3% of the loanwords have intransitive derived verbs following the derivational pattern نفعلن /tafalana/ which have a reflexive meaning as: (i) vaccine > نفكسن /tafaksana/ (VI, CA, take the vaccine); (ii) cologne [ii) vaccinate / tafaksana/ (VI, CA, to put perfume); (iii) Pharos (Aramaic) تفرعن < فرعون (tfarSana/ (VI, to behave arrogantly); vaccinate / tafaksana/ (VI, take the vaccine); liberalize / tafaksana/ (VI, to become liberal); cologne (FR) تفرعن / tkalwan/ (VI, to wear perfume); Pharos تفرعن < فرعون /tafarSan / (VI, to behave arrogantly). In each verb, 5 consonants were extracted by Arabic speakers with short vowels added so that the root has the sequence CVCVCCVCV. These derived verbs are either transitive (VT) or intransitive (VI) as shown in their definition. They follow the same quinque-consonantal root and rhyme with native Arabic words as jakwan/ (VI, keep complaining); تعصرن /tSaran/ (VI, become modern/up-to-date; تمركن /tmaskan/ (VI, pretend to be helpless); fakwan/ (VI, act as a little, smart child); تفلحن /tfalHan/ (VI, act smart); تموضع /tmaskan/ (VI, act crazy), vacome /tamawDa?/ (VI, to be in a specific place).

The derivational pattern تفعلن /tafa?lan/ is an augmented verb in which the prefix /ta/ is added to form a quadri-consonantal base verb to derive an intransitive quinque-consonantal verb root.

5. Discussion and Conclusion

The current study describes how verbs are derived from some loanwords in Arabic. In 41%, the derived verb is an Arabization of the foreign verb in the doner language regardless of which language it is. In 59%, Arabic speakers derived a verb from loan nouns for which no equivalent verbs exist in the doner (source) language. In 9% of the loanwords, two verbs are derived from each noun, each of which follows different derivational patterns, have different meanings and transitivity. All derived verbs found in the sample follow 9 Arabic derivational patterns regardless of the source language. A root consisting of 3, 4 or 5 consonants is extracted from the loanword with short and/or long vowels are added where necessary. In 2%, the derived verbs follow a tri-consonantal paradigm. 82% follow 5 quadri-consonantal paradigms and 16% follow 3 quinque-consonantal paradigms. The most productive paradigm is /fa?lal/ CVCCVC (46%), followed by فعل /fa?lal/ CVCCVC (19%), with fewer than 10% for the other 3 quadri-consonantal paradigms. The quinque-consonantal paradigms. The quinque-consonantal paradigms. All derived verbs herein conform to the phonotactic and morphotactic rules of Arabic and are frequently used in daily speech.

In extracting the root consonants in some compound words as *Afghanistan, Kyrgyzstan, Uzbekistan*, and *Internet*, the second element of the compound (-stan, net) is deleted and consonants in the base form are extracted from the first part to form the roots roots://arty.com/ قرغز //arty az/. أفغن //arty az/.

In derived verbs that are equivalents to the foreign verbs *Americanize*, & *veterinarian*, all additional derivational suffixes are deleted, and the root consonants are extracted from the base nouns (*America*, & *veterinary*). So the derived verbs are /?amrak/, أمرك /?amrak/, //amaqraT/, and year.

Democracy is phonologically Arabized into ديموقراطية and two verbs are derived. In دمقرط /damaqraT/, all the consonants in the Arabized form were extracted, whereas in دقرط /daqraT/, the consonants are reduced to 4 to make the verb easier to pronounce. Some Arabic speakers prefer the first verb, others prefer the second.

In few cases, a phoneme is deleted or modified to form the 4-consonant root as in *Ptolemy* which is Arabized into (س), *Bolshevik* (ik), *gypsum* (um), *influenza* (in+n), puncture (n+ct) to make is easy to extract consonants to form a root that fits the Arabic phonotactic and morphotactic systems. The result is the following derived verbs: بلشف /baTlam/, فلوز /baTlam/, فلوز /baJaf/, جبّس /dʒabbas/,

In "go" which is monosyllabic, a verb was created by adding the syllable /tar/ to form the quadri-consonantal verb جوتر /go:tar/ (VI, go) that is used by some uneducated Arabic speakers in Colloquial Arabic. In ملشن /malʃan/ which is derived from *militia*, consonant /n/ was added at the end to form a quadri-consonantal root from *militia*.

The derivability of verbs from loanwords in the current study does not mean that verbs can be derived from all loanwords in Arabic. The derivation of verbs from some loanwords is feasible but they are not in common use in spoken or written Arabic. For example, a verb can be derived from *Indonesia* >/?andas/ and *Holland* > /halnad/, Romania > /rawman/, Spain > /?asban/, Belgium > /baljak/ but these verbs are not actually used in Arabic. To derive an acceptable verb form a loanword, changing the root verb which is the uninflected second person singular masculine past tense form to the present simple, and imperative should be possible and easy. The derivation of a variety of adjective and noun forms from the same root verb is not necessary.

In other cases, it is not possible to derive verbs from some common nouns and names of countries as *Singapore Tajikistan, Europe, Belarus, Pakistan, Australia, New Zealand, Bangladesh, Mexico, Sri Lanka* and many common nouns such as *Snapchat* , *uui*, *YouTube*, *iuu*, *Instagram*, *iuu*, *iuu*, *iuu*, *saitaca, aristocracy*, *iuu*, *iuu*, *saitaca, aristocracy*, *iuu*, *iuu*, *saitaca, aristocracy*, *Buddhism*, *iuu*, *iuu*, *Buddhism*, *iuu*, *Aristotle*, *iuu*, *Pythagoras*, *petroleum*, *iuu*, *camera*, *iuu*, *due* to the difficulty of extracting four or five consonants to create a root. In this case, when consonants are extracted, the string and sequence are not acceptable to Arabic speakers.

Language contact situations of English and Czech, as Stephen (2023) indicated, may lead to an alteration in the morphology of the recipient language. This results in the introduction of newer word forms or a formation of newer morphological variants of the existing word forms in the recipient language. Stephen added that languages often borrow nominal roots and morphologically derive verbs from them. This way, they are integrated into respective derivational classes. This was evident in the Czech language which shows how synchronic derivational resources can be used to probably analyze the effects of borrowing in language evolution by focusing on morphological integration of the borrowed nominal roots in verb formations. Taking Stephen's finding into consideration, no alterations in the morphology of the recipient language (Arabic) was noted in the current study due to its contact with other languages vis English, as verb derivation in Arabic depends on a root-based system, not a suffixing system. Even in cases of underivable words with which a helping verb is used, it cannot be said that this is a transfer from English collocations like "make a comment (V + N)" as collocations with make \sqrt{ya} ?mal/ do exist in Arabic.

Both D'Anna (2018) and Hassan (2018) and (Al-Athwary, 2023) mentioned the *'Light Verb Strategy'* in adapting Italian loanwords in Libyan Arabic, English loanwords in Egyptian Arabic and Yemeni Arabic respectively. The Light Verb Strategy' is not a derivational strategy in the current study as verb " to do" or similar verbs plus a noun or a frozen form of a borrowed verb were only used in 12% of the words in the current study. This probably due to the difference in coverage and sample size of the loanwords included in this study and in the other studies such as Al-Athwary's which only analyzed 70 loanwords in the IT field, whereas this study analyzed 186 loanwords from a variety of disciplines and a doner languages not only English.

Another discrepancy between findings of the current study and those of Al-Athwary's is that Al-Athwary found derived loan verbs that represent a non-patterned strategy. This non-patterned strategy was not found in the current strategy as 88% of the loanwords in the sample follow the one tri-consonantal pattern, five quadri-consonantal patterns and three quinque-consonantal patterns.

This study agrees with D'Anna and Hassan's studies which found samples of extracted tri-consonantal and quadri-consonantal roots from the original verbs, that were treated as inherited ones and a relatively high number of highly integrated verbs, in which a root has been extracted and made productive in the morphological system of Libyan Arabic. Hassan emphasized that Egyptian Arabic assigns a root to each loan verb, and that the loan verb assumes one of the Egyptian Arabic verbal forms and that. In Al-Athwary's study, loanwords with root reduction were rare, whereas this study found few examples.

Although, native Arabic equivalent verbs exist for most of the verbs derived from foreign words used in Colloquial Arabic in the current study, Arabic speakers seem to prefer to use foreign verbs to native ones. This is similar to findings of studies by Al-Jarf

Al-Jarf (2021c), Al-Jarf (2019), Al-Jarf (2016), Al-Jarf (2011) and Al-Jarf (2008) who found that educated Arabs prefer to use foreign words from English or French. For example, students use "class, project, cancel, mobile"; Facebook and Twitter users use "share, comment, like, message, tweet, hashtag, profile, follow"; and TV anchors use "break, media, agenda, politic,". Students and instructors gave historical, sociolinguistic, technological and globalization factors that affect the preference of foreign words to Arabic equivalents, in addition to brevity, poor knowledge of Arabic equivalents, especially new coinages. They think it is more prestigious to use foreign words, because "everybody is doing it" and "it's a habit". They added that foreign words attract customers' attention more than native words, and more customers can be reached worldwide.

The phonological and morphological adaptation and integration of loanwords used in Colloquial Arabic might lead to the marginalization of Arabic, native speakers might lose those words and substitute adapted/integrated words instead. The young generation will grow up feeling that such words Are Arabic as they sound Arabic and are treated like Arabic words. Translation students can play a major role in raising Arabic speakers' awareness of the Arabic equivalents of loanwords and try find Arabic equivalents loanwords that the public are unaware of. This study also recommends that a bilingual dictionary be compiled to show all the loanwords in Arabic and what their Arabic equivalents are, whether the dictionary is online or in the form of an app (Al-Jarf, 2022).

There is a need for compiling an extensive etymological dictionary that shows old and latest loanwords in Arabic in all subject areas and the source languages from which they were borrowed instead of short lists scattered here and there on the Internet the copy and paste from each other. The etymological dictionary should show the historical change in loanwords, and the kind of phonological adaptations that were made. There is also a need for compiling an Arabic derivations' dictionary that shows all kinds of roots and which forms are derived from each (Al-Jarf, 2020; Al-Jarf, 2014).

Conflicts of Interest: The author declares no conflict of interest.

ORCID ID: https://orcid.org/0000-0002-6255-1305

Publisher's Note: All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, editors and reviewers.

References

- [1] Abdul-Nasser, R. (2018). <u>Arabic words from Greek Origin</u>.
- [2] Abdel Rahim, F. (2011). Al-Dakhil dictionary of the Arabic language and its dialects. Dar Al-Qalam, Damascus (ف عبد الرحيم) ف عبد الرحيم). <u>https://ia803402.us.archive.org/33/items/FP125678/cover.jpg</u>
- [3] Abu-Hashimah, T. (2007). Word origins: dictionary of foreign words in Arabic. Hala Publishers and Distributers: Cairo.
- [4] Al-Baseeni, L. (2014). Arabic words of foreign origin. <u>Arabic Language Academy</u>,
- [5] Al-Jarf, R. (2024a). Exploring Rule-based and idiosyncratic loanword plural forms in Arabic. *International Journal of Linguistics Studies* (*IJLS*), 4(1), 25-39. DOI: 10.32996/ijls.2024.4.1.3. <u>Google Scholar</u>
- [6] Al-Jarf, R. (2024b). feminine sound plural endings in /ya:t/ and /yya:t/ in native and loan lexemes in Arabic. *International Journal of Middle Eastern Research, 3*(1), 4-13. DOI: 10.32996/ijmer.2024.3.1.2. <u>Google Scholar</u>
- [7] Al-Jarf, R. (2024c). Feminine Sound Plurals with /h+a:t/ in Native and Borrowed Words in Arabic. *Journal of Linguistics Studies. Journal of Linguistics Studies*, 4(1), 1-8. Doi: 10.32996/ijls.2024.4.1.1. <u>Google Scholar</u>
- [8] Al-Jarf, R. (2024d). Gemination and degemination before the feminine sound plural suffix in native and loanwords in Arabic. *Journal of Humanities and Social Sciences Studies (JHSSS), 6*(1), 71-78. DOI: 10.32996/jhsss.2024.6.1.8. <u>Google Scholar</u>
- [9] Al-Jarf, R. (2023a). Derivation from native and loan acronyms in Arabic. *International Journal of Linguistics Studies*, *3*(3), 19-25. <u>Google</u> <u>Scholar</u>
- [10] Al-Jarf, R. (2023b). Lexical hybridization in Arabic: The case of word formation with foreign affixes. *International Journal of Linguistics, Literature and Translation, 6*(10), 61-70. DOI: 10.32996/jjllt.2023.6.10.9. <u>Google Scholar</u>
- [11] Al-Jarf, R. (2023c). Pluralization of borrowed social media terminology in colloquial Arabic. *British Journal of Applied Linguistics, 3*(2), 60-68. DOI: 10.32996/bjal.2023.3.2.6. <u>Google Scholar</u>
- [12] Al-Jarf, R. (2023d). Word formation with foreign lexemes: The case of hybrid compounds in Arabic. *Journal of Humanities and Social Sciences Studies, 5*(11), 15–27. <u>https://doi.org/10.32996/jhsss.2023.5.11.3</u>. <u>Google Scholar</u>
- [13] Al-Jarf, R. (2022). Specialized dictionary mobile apps for students learning English for Engineering, business and computer science. Journal of Humanities and Education Development (JHED), 4(1), 1-10. <u>https://doi.org/10.22161/jhed.4.1.1 ERIC ED618224</u>. <u>Google Scholar</u>
- [14] Al-Jarf, R. (2021a). Arabic and English loan words in Bahasa: implications for foreign language pedagogy. *Journal La Edusci, 2*(4), 23-35. https://doi.org/10.37899/journallaedusci.v2i4.44. Google Scholar
- [15] Al-Jarf, R. (2021b). Derivation from foreign words and acronyms borrowed in Arabic. *Lingua. Language And Culture, 20*(2), 52-77. <u>Google</u> <u>Scholar</u>
- [16] Al-Jarf, R. (2021c). Impact of social media on Arabic deterioration. Eurasian Arabic Studies. Eurasian Arabic Studies Арабистика Евразии الدراسات العربية الأوراسية الأوراسية الأوراسية المراسات العربية الأوراسية الأوراسية الأوراسية المراسات العربية ا
- [17] Al-Jarf, R. (2020). Arabic digital dictionaries. *Eurasian Arabic Studies*, *12*, 16-42. <u>Google Scholar</u>

- [18] Al-Jarf, R. (2019). Effect of social media on Arabic language attrition. Globalization, Language, Literature, and the Humanities Conference in Honour of Mnguember Vicky Sylvester (Abuja, Nigeria, Mar 29-30, 2019). ERIC ED614077.
- [19] Al-Jarf, R. (2016). Arab preference for foreign words over Arabic equivalents. *ALATOO Academic Studies, 1,* 158-162. ERIC ED613055. Google Scholar
- [20] Al-Jarf, R. (2015). English and Arabic derivation for translation students. Google Scholar https://www.researchgate.net/publication/281003231.
- [21] Al Jarf, R. (2014). Arabic word formation with borrowed affixes. Word-Formation Conference. University of Bern, Switzerland. www.researchgate.net/profile/Reima-Al-Jarf/publication/365161529. <u>Google Scholar</u>
- [22] Al-Jarf, R. (2014). Online Arabic-English-Arabic specialized dictionaries. In Miguel Ángel Campos and José Ramón Calvo's Investigating Lexis: Vocabulary Teaching, ESP, Lexicography and Lexical Innovations. Cambridge Scholars Publishing. Pp. 95-102. <u>Google Scholar</u>
- [23] Al-Jarf, R. (2011a). Dominance of foreign words over Arabic equivalents in educated Arab speech. International Conference on Translation and Asian Studies. The Chinese University of Hong Kong. April 28-29. **ERIC** ED614058. <u>Google Scholar</u>
- [24] Al Jarf, R. (2011b) Teaching English word-formation processes to translation students. *Komunikacija i kultura online: Godina II, broj 2,* 160-174. **ERIC** ED634163. <u>Google Scholar</u>
- [25] Al-Jarf, R. (2010). Translation students' difficulties with English neologisms. *Analele Universității "Dunărea De Jos" Din Galați, Fascicula XXIV, III* (2), 431-437. ERIC ED613253. <u>Google Scholar</u>
- [26] Al-Jarf, R. (2009). Arabic and English loan words in Bahasa Malaysia: Implications for foreign language learning by Arab Students. Southeast Asian Linguistics Society (SEALS) Conference (Ho Chi Minh City, Vietnam, May 28-29. **ERIC** ED614362. <u>Google Scholar</u>
- [27] Al-Jarf, R. (2008). Impact of English as an international language (EIL) upon Arabic in Saudi Arabia. Asian EFL Journal, 10(4), 193-210. <u>Google Scholar</u>
- [28] Al-Jarf, R. (1994). English and Arabic word-formation processes for translation students. https://www.researchgate.net/publication/281003183. Google Scholar
- [29] Al-Jarf, R. (1990). A contrastive analysis of English and Arabic morphology for translation students. https://www.researchgate.net/publication/312193999. Google Scholar
- [30] Al-Jurf, R. (2002). A contrastive analysis of English and Arabic for translation students. King Saud University. http://:site.iugaza.edu.ps/wamer/files/2017/02/Contrastive_Analysis_for_Translation_Students-neww1.pdf. <u>Google Scholar</u>
- [31] Al-Athwary, A. A. (2023). Verb borrowing: The integration of English loan verbs in Yemeni Arabic. Jordan Journal of Modern Languages and Literatures Vol, 15(3), 1027-1047.
- [32] Badarneh, M. (2007). The linguistics of loanword adaptation in Arabic with special reference to Jordanian Arabic. *Lingua Et Linguistica*, *1*(2), 122-151.
- [33] Berikashvili S. (2019). Loan verb adaption in Pontic Greek spoken in Georgia. In Tzitzilis C., Papanastassiou G. (Eds.), *Language contact in the Balkans and Asia Minor* (pp. 262–278). Institute of Modern Greek Studies (Manolis Triandaphyllidis Foundation), Aristotle University of Thessaloniki.
- [34] Coghill, E. (2015). Borrowing of verbal derivational morphology between Semitic languages: the case of Arabic verb derivations in Neo-Aramaic. *Borrowed morphology*, 83-108.
- [35] Csáki, É. (2006). Middle Mongolian loan verbs as they appear in Karachay-Balkar. Modern Türklük Araştırmaları Dergisi, 3(4), 36-65.
- [36] D'Anna, L. (2018). *Phonetical and morphological remarks on the adaptation of Italian loanwords in Libyan Arabic*. In Stefano Manfredi & Mauro Tosco (Eds.), Arabic in contact. 172-187. John Benjamins. <u>https://doi.org/10.1075/sal.6</u>
- [37] Efthymiou, A. (2021). Verb-deriving processes in Modern Greek: the role of the learned and non-learned level. 14ο Διεθνές Συνέδριο Ελληνικής Γλωσσολογίας, 1(1), 362-369.
- [38] Fisiak, J. (1985). A note on the adaptation of English loanwords in Polish: verbs. *ITL-International Journal of Applied Linguistics*, 67(1), 69-75.
- [39] Hassan, A. (2018). Loan verbs in Egyptian Arabic. Arabic in Contact, 6, 161.
- [40] Mifsud, M. (1995). Loan verbs in Maltese: A descriptive and comparative study (Vol. 21). Brill.
- [41] Mohammed, O. & Samad, S. (2020). The morphological adaptations of English loanwords used in modern Standard Arabic. *Journal of Emerging Technologies and Innovative Research (JETIR), 7* (1), 245-256.
- [42] Ralli, A. (2016). *Strategies and patterns of loan verb integration in Modern Greek varieties*. Contact Morphology in Modern Greek Dialects. Newcastle upon Tyne: Cambridge Scholars Publishing, 73-108.
- [43] Sasala, J. (2022). Morpho-phonemic adaptation of English loan verbs in Lukabaras. *LLT Journal: A Journal on Language and Language Teaching*, *25*(1), 240-249.
- [44] Sato, P. T. (1975). Loanwords and Japanese verbs. *Journal of Japanese Linguistics*, 4(1-2), 147-158.
- [45] Stephen, A. (2023). Understanding borrowing through derivational morphology: A case study of Czech verbs. In *Fourth International Workshop on Resources and Tools for Derivational Morphology* (Vol. 5, p. 49).
- [46] Versteegh, K. (2011). Heavy and light borrowing of Arabic verbs. The Word in Arabic (pp. 213-228). Brill.