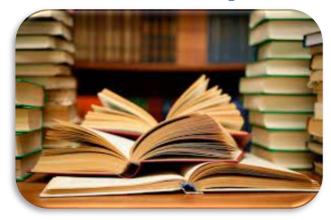


# **Research Paper**



A Corpus-based Investigation of Lexical Bundles in Iranian Advanced Learners' Discussion of English and Natives

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#### ABSTRACT

This study examines the use of four-word lexical bundles in spoken group discussions by Iranian EFL learners (advanced) and native speakers. A corpus of 21 discussions (encompassing academic context) is analyzed to explore the frequency, structure, and function of lexical bundles used by these groups. Biber et al.'s (2004) taxonomies are employed to categorize the extracted bundles based on their structural and functional characteristics. The Michigan Corpus of Academic Spoken English (MICASE) serve as reference points for comparisons with native speaker usage. Quantitative analysis (frequency counts and chi-square tests) alongside qualitative content analysis reveal that native speakers utilize lexical bundles more frequently overall. Additionally, they exhibit a preference for discourse organizer bundles (functional category) and noun phrases (structural category). In the academic context, non-native speakers rely more heavily on stance expressions (functional) and verb phrase fragments (structural). These findings hold significant pedagogical implications for EFL instructors, material developers, and learners themselves, paving the way for improved instructional strategies and learning outcomes.

Keywords: Corpus, Learner Corpora, Lexical Bundles, Speaking Skill

بدون شک گفتار را با عبارت های چندکلمه ای که خود ترکیبی از قواعد نحوی و ساختاری هستند، می توان سازمان دهی کرد. عبارات چندکلمه ای که خود ترکیبی از قواعد نحوی و ساختاری هستند، می توان سازمان دهی کرد. عبارات چندکلمه ای در موقعیت های متفاوت می تواند به زبان آموزان در صحبت کردن به زبان انگلیسی کمک نماید. این تحقیق به بررسی «میزان فراوانی»، «ساختار» و «عملکرد» عبارات چهار کلمه ای در بحث های گروهی زبان آموزان پرداخته است. از مجموعه (MICASE) به عنوان کرپس بومی و از زبان آموزان سطح متوسطه ایرانی بعنوان کرپس غیربومی استفاده شده است. جهت رسیدن به هدف تحقیق، از نرم افزار (AntConc) برای استخراج عبارات چهار کلمه ای در بیست و یک بحث گروهی زبان آموزان ایرانی استفاده کردیم، برای دسته بندی عبارات نیز از طبقه بندی ساختاری و عملکردی که توسط بایبر و همکارانش در سال ۲۰۰۴ ثبت شده است، استفاده شده است. نتایج حاکی از این است که افراد بومی نسبت به زبان آموزان ایرانی از عبارات چهار کلمه ای در گفتگوهای گروهی خود بیشتر استفاده کرده اند در حالی که زبان آموزان ایرانی از عبارات پهره کلمه ای در گفتگوهای گروهی خود بیشتر استفاده کرده اند در حالی که زبان آموزان ایرانی از «Stance expressions» طبقه بندی عملکردی، و از «Verb phrase» در طبقه بندی ساختاری بیره برده اند نتایج این تحقیق راه کارهای آموزشی قابل توجهی برای محققان، معلمان و زبان آموزان زبان انگلیسی در بردارد .

«واژگان کلیدی: تحلیل پیکره ای، گروه زبان آموزان آموزان آموزشی قابل توجهی برای محققان، تعلمان و زبان آموزان آموزان آموزان آموزان آموزان مهارت گفتاری

# **INTRODUCTION**

Corpus linguistics contains statistical measures, and deals with large amounts of linguistic and empirical data (Granger, 1998; Gries & Ellis, 2015). Among analytical procedures that ensue from corpus linguistic studies, one can refer to word-lists and frequencies, lexical variation (type/token ratio), concordance lines, collocations, and lexical bundles (Biber et al. 2004; Coxhead, 2008; Granger & Meunier, 2008). Frequency is a basic feature of this kind of investigation; however, a corpus-based study does not basically count linguistic features, but also comprises qualitative commentaries of numerical data too. In other words, language corpora provide lexicographers with huge amounts of authentic linguistic data which subsequently enable them to determine the frequency of items and bundles and decide their occurrence (Esfandiari et al., 2021; Svensen, 2009). The goal of corpus-based research, according to Nasrabady et al. (2020), is not only to report quantitative linguistic data but also to bring to light samples of language apply through the analysis of language data.

The requirement of comprehending how language is created and the way various people acquire or learn language is an essential field in linguistic research, since language has been employed to converse ideas, feelings, and convey information and knowledge to raise generations during history (Gómez Burgos, 2015). Of all four language skills, speaking is taken into account to be the significant aspect in learning a second or foreign language. Comprehending the vast significance of speaking proficiency in EFL curriculums, it is essential to discover and employ the top instructional methods, materials, activities, media, and other prerequisites that will assist the learners become proficient in speaking expertise (Vaziri et al., 2023; Young & Miller, 2004). In this regard, Yang (2020) mentioned that, if English learners desire to achieve native-like "fluency and accuracy", it is superior for them to gain communication strings and "lexical bundles". It is increasingly acknowledged that certain sequences of words have functions that play an imperative role in the mastery of the language (Schmitt & Carter, 2004; Qin, 2014). These expressions also allow learners to organize their ideas in context, and facilitate fluent linguistic production and communication (Hejazi, 2021; Hyland, 2008; Li & Schmitt, 2009).

Lexical bundles are of special importance in speaking as they fulfill significant discourse functions and are a hallmark of advanced academic speaking (Pan & Liu, 2019; Ruan, 2017). Some scholars (Cortes, 2004; Hyland, 2012; Xu & Wijitsopon, 2023) described, "lexical bundles" as the combinations of more than two words that are repeatedly employed inside conversation related to the situation. According to Nasrabady et al. (2020), lexical bundles are generated automatically and unconsciously and have been considered for their pragmatic functions in different contexts.

Guided by the requisite to help such learners improve competence in speaking, there are many investigations of 'lexical bundles' on the different context (Pan et al., 2016; Pan & Liu, 2019; Staples et al., 2013). In general, these studies have deferred precious insights into how English learners at various proficiency levels employ language. Though, the results of these investigations remain mixed, and the differences between L2 learners from special proficiency levels in terms of their utilization of different forms, structural and functional patterns into which lexical bundles are categorized is not yet clear. This may be because of various corpus sizes, methodologies, and contexts in specific academic registers, or heterogeneity in corpus design, which may affect the employment of lexical bundles.

As a probe into lexical bundles frequencies and range might help teachers of English realize the influence of learners' L1 on the L2 acquisition, boost more practical teaching strategies, and fill the



research gap of the lack of investigation of the frequencies and range of Iranian learners' employment of lexical bundles. Therefore, the current study investigates EFL learners' application of lexical bundles in their spoken discourse, which was examined and analyzed with the help of corpora. The researcher first compiled an EFL learner corpus, the participants whose level of proficiency was advanced. Then, the researcher compared it with the well-built spoken English corpus of Michigan Corpus of Academic Spoken English (MICASE) to sort out some key features of the two corpora.

Specifically, this research examines the following research questions:

- 1. What are the overall frequencies of the lexical bundles in the Iranian advanced learners' discussion corpora and MICASE?
- 2. What are the similarities and differences in utilizing lexical bundles between the Iranian advanced learners and native speakers?

# LITERATURE REVIEW

The term 'Lexical bundle' is narrowly described as continuous three or more word sequences which take place frequently in a corpus, to satisfy particular frequency and dispersion thresholds, for instance, occurring at least 20–40 times per million words in three to six texts (Biber and Barbieri, 2007; Chen and Baker, 2016). This description has been implemented in many investigations of bundles, which has enhanced understanding of lexical bundles employment and provided standard identification criteria for them (Biber et al., 2004; Cortes, 2006; Grabowski, 2015; Liu and Chen, 2020).

Language learning and language fluency, researchers have studied the employment of lexical bundles in both oral and written language. It has been detected that lexical bundles are different across registers, "L1 writers, competence or expertise writers, disciplines, and levels" (e.g., Biber et al., 2004; Chen and Baker, 2016; Hyland, 2008; Öztürk & Köse, 2016; Reppen & Olson, 2020). Therefore, the significance of studying lexical bundles is apparent in different broader areas, such as "applied linguistics, second-language acquisition, language instruction".

All preceding research on lexical bundles has employed corpora to recognize the most common recurrent sequences of words and verify how those sequences can be inferred as building blocks of discourse. According to Chun-Guang (2014) corpus linguistic has an effect on lexis teaching (Nation, 2001; Schmitt & Carter, 2004). It is pretty possible that data-driven learning methods prepare us with novel conceptions of 'meta-linguistic knowledge'. A corpus prepares a large amount of quantitative data and an opportunity to test ideas about definite language. It can also show instances of chiefly rare or exceptional cases that could not be identified from looking at single texts. According to Svensen (2009), language corpora provide lexicographers with huge amounts of authentic linguistic data which subsequently enable them to determine the frequency of items and bundles and decide their occurrence.

The research of lexical bundles is essential since they are widespread in various registers and they "are prominent due to their rigidity" that allow them to be a good standard for teaching and learning a foreign language, as they are easily recognized (Lehecka, 2015). A number of studies have also claimed that learning these expressions not only assists learners to become fluent, but also to accomplish a greater range and accuracy of these expressions (Esfandiari & Barbary, 2017; Henriksen, 2013; Saito and Liu,



2022; Schmitt, 2010; Stengers et al., 2011; Wang & Zhang, 2021). These researches were based on various corpora and proposed "structural and functional" classifications for lexical bundles.

Biber et al. (2004) classified lexical bundles into "structural and functional" type. Regarding their structural classification, lexical bundles can include "verb phrase fragments" (e.g. can be used to), "dependent clause fragments" (e.g. that there is a), and "noun phrase and prepositional fragments" (e.g. one of the things). Functionally, they are sub-categorized into "stance expressions" (e.g., I don't know that, the fact that the, if you want to, it is important to, going to be a, it is possible to). Second functional subcategory of lexical bundles is called "discourse organizers" which "reflect relationships between prior and coming discourse" (e.g. in this chapter we, as well as the). Last functional sub-set of lexical bundles is called "referential expressions" which "make direct reference to physical or abstract entities, or to the textual context itself (e.g. is one of the, something like that, the rest of the, the size of the, in terms of the, in the United States) (p. 381, 384–388).

A lot of studies have been done considering lexical bundles and corpus linguistics. For example, Adel and Erman (2012) compared the use of LBs by L1 speakers of Swedish advanced learners and their English native-speaker counterparts who were all undergraduate students in the discipline of applied linguistics. Four-word lexical bundles were extracted from the corpora, and they were analyzed both quantitatively and qualitatively in terms of the functions they served. The results of their study showed that native speakers used more varied and a larger number of lexical bundles in comparison to L2 writers.

To compare the utilization of lexical bundles in both written and spoken discourse, Oakey (2020) scrutinized the uses of lexical bundles in oral and written university registers based on a sub-component of the TOEFL 2000 Spoken and Written Academic Language Corpus. The findings of their research made it clear that lexical bundles are both dependent on the mode (written and spoken) and the communicative purpose they serve. They also found that lexical bundles are commonly used in university language and even in non-academic registers such as management course syllabi.

Zago (2020), studied lexical bundles in "English and American films" and detected that lexical bundles are frequent in cinematic discourse, with proximal bundles being more common in film dialogues than in other spoken registers of English.

In the study of Saito and Liu (2022), lexical bundles as one the particular kind of formulaic sequence has been investigated in speaking L2 proficiency. The result revealed a strong positive relationship between the length of communication and language proficiency, paying attention to the length of speech than the specifications of speech, may help speakers' production of language and seem more native-like while focusing. It is also proved that using appropriate formulaic language enhances learners' self-confidence and motivates them by the feeling of accomplishment that might facilitate the learning process (Schmitt, 2010).

# **METHODOLOGY**

# Corpora

**Native Corpus: MICASE** 

During 1997 to 2001, the "University of Michigan's English language Institute" accumulated the "Michigan Corpus of Academic Spoken English" (MICASE), contained '200 full hours' of academic communication which were filed and copied (Simpson-Vlach & Leicher, 2006). By the number of '152



speech occasions', they demonstrated that MICASE involves 'four academic partitions', like: "Physical Sciences and Engineering", "Biological and Health Sciences", "Humanities and Art", and "Social Sciences and Education" were employed in present research. Although there are enormous spoken corpora with literally transcriptions of a considerable number of spoken samples from EFL learners from all over the world, some of them are not free of charge, and others are not simply accessible. Besides, among the accessible corpora, the percentage of the participants who speak advanced English in the corpora is pretty low. The data needed for this study should be advanced English learners whose English proficiency ranges among C1 or above. So the researcher employed MICASE for the current study.

In addition to mentioned reasons for choosing MICASE; different studies investigating spoken language have assigned this corpus in literature (Ganji & Nasrabady, 2021; Kashiha & Chan, 2015; Kuswoyo et al., 2020; Wu, 2019). In the current study the researcher chose five topics from MICASE corpus; since the corpus has discussion sessions and is related to the context of this research. The topics, types and word counts of each transcription are proposed in the following table.

**Table 1**Description of transcripts of MICASE Corpus

Title	Type	Word	Academic Division
		Count	
1.Philosophy	Discussion section	8355	Humanities
2. Economics	Discussion section	8526	Social science and education
3. Intro Anthropology	Discussion section	7893	Social science and education
4. History	Discussion section	15679	Social science and education
5. Intro to American politics	Discussion section	7220	Social science and education

# **Non-native Corpus: Iranian Non-native Academic Spoken Corpus**

Non-native EFL learners' spoken corpus of present study has been drawn out from 21 'group discussion' transcriptions including different topics such as: 'Anthropology, Economics, Philosophy, History and American politics'. The subjects of discussions were the same as the topics of discussions extracted from MICASE corpus. The members of group discussions were '18 female and 10 male undergraduate university students' (distributed in 7 group discussions) between the age of 20 to 26 from. All participants of the research were engaged in English studying for 5-6 years as a minimum and their language proficiency level were C1. Quick Oxford Placement Test (QOP) was carried out and the participants whose level was C1 or above were took part in group discussions (Mohammadi & Enayati, 2018). The participants were assigned on the basis of "convenience sampling", therefore they varied in their 'age, gender, and years of learning experience'. Four participants took part in each 'group discussions' and they consult with each other about 15-20 minutes.



**Table 2** *Non-native Learner Corpus features* 

Features of Learners			Features of Tasks	
Age: 20-26 years old English foreign language			Speaking	Speaking group discussion
Gender: 18 female and 10 male	Advanced u students	niversity	Academic genre	timed: 15-20 min.

**Table 3** *Information of the Corpora* 

Corpus	Number of texts	Number of words
Native corpus: MICASE	5	47673
Non-native corpus: Iranian advanced	21	35538
university students		

### **Lexical Bundles Identification**

For this stage, two key points had to be considered: "the size of cluster" (i.e., lexical bundle) to seek for, and "the frequency cut-off"; they were difficult decisions. As mentioned before, this research focused on units consisting of 4-word sequences. Referring to Hyland (2008), 4-word lexical bundles are more general than 5-word bundles and usually signify clearer structures and functions than 3 -word bundles. Two word lexical bundles were left out too, since they are too frequent and often represent regular collocations. As proposed by Appel (2011), 4-word bundles "seem to have become a standard unit of length in this type of research, problems still persist" (p. 69).

Another norm was to determine an objective "frequency cut-off point" for the detection of "lexical bundles". Hyland (2008) also admitted that the "cut-off point" for bundles is pretty arbitrary. Biber et al. (2000) explained "lexical bundles" as the groupings of words that occur at least '10 times in a million words', and 'in at least five different texts in the corpora'. Subsequent to some consideration, it was determined that the 'frequency cut-off' for the present study would be "four occurrences in the corpus", corresponding to roughly 12 incidences per million words. This is included the range established by preceding researches; as previously confirmed, 'numbers between five and 40 occurrences per million words' have been employed (Biber et al., 2004; Jablonkai, 2009).

"Range" involves that a bundle should emerge in a definite number of various texts; this assists to "guard against idiosyncratic uses by individual speakers or authors" (Biber et al., 2004). Prior investigations of this setting have applied disparate 'range cut-offs'; Biber et al. (2004), Cortes (2006), and Cheng (2010) all formerly employed a "cut-off of five texts". Hyland (2008) offered a "percentage-based approach", (i.e. a series appearing in fewer than 10 percent of the transcripts would be deleted). For the recent research, it was settled on that a bundle should manifest in "at least four of the twenty- one texts". This would decrease significantly the amount of total elements in the list by omitting the bundles that were particular to some speakers.



Since the corpora employed in this research were not parallel in size, a "normalization procedure in every 1000 words" had to be accomplished to make it possible to compare two corpora in terms of overall frequency of bundles utilized. Despite the limitations, this procedure had already been employed in some previous corpus-based researches of lexical bundles (Esfandiari et al., 2021; Jalali, 2013; Khazaee et al., 2020)

#### DATA ANALYSIS

The data have been compiled through speaking group discussions which were performed by the participants about definite topics assigned to them by the researcher. For the aim of compiling the data inside spoken discourse of non-native speakers of English, the student group discussions of Iranian undergraduate students were primary audio-recorded and then have been kept as sound files on a computer. Since the research corpus was comprised by taking MICASE as the basis for the study, the transcription process was conducted in a similar method and manner with MICASE. The transcription of the study corpus was done according to MICASE orthographic transcription principles and mark-up system which are classified to allow for ease of readability, as containing sufficient details to make sure enough comprehension from the text of the transcript alone. For the purpose of operating the AntConc 3.3.0 (Anthony, 2019) program for data scrutiny, plain text is required, thus all conversations have been typed and accumulated in text set-up utilizing computer software. The researcher employed AntConc 3.3.0, a freeware concordance computer software to recognize and create a list of common 4-word lexical bundles in each sub-corpora. Having analyzed the frequency of each bundle, chi-square analysis was run to determine whether or not the differences in each category of various bundles were significant. In this research, it computed with the employment of online calculator was an (http://sigil.collocations.de/wizard.html).

Throughout transcription, speech errors were made by the participants, have not been corrected and were transcribed as how they have really happened. After comparing the occurrence and patterns of employment, the recognized "lexical bundles" were then classified both "structurally" based on their grammatical forms, and "functionally" along with their contextual meanings (Biber et al., 2004). In order to decrease subjectivity, the transcripts were verified by another rater, and modifies were made if needed.

#### **RESULTS**

# **Division of the Extracted Bundles**

A primary evaluation of two lists 'native speakers (NSs) and non-native speakers (NNSs)' of drawn out bundles revealed, the discussion sessions of the NSs contained a larger number of "lexical bundles". Overall, total raw frequencies of "505 target bundles" were found in the native corpus and "315 bundles" in non-native corpus. There were 67 various sequences in the native corpus and merely 45 for the NNSs. As raw frequencies in corpora with various sizes present incomparable results, raw frequencies were normalized per 1000 words. The process of normalization can be done manually with the formula (raw frequency x 1000)  $\div$  number of words in the corpus, or electronically through websites.



**Table 4**Division of Lexical Bundles in N and NN Corpora

Groups	Entire No. of N-grams	Entire No. of N-grams	NF per	1000
	types (Raw Freq.)	Token (Raw Freq.)	words	
Native speakers	67	505	10.59	
Non- native Speakers	45	315	8.86	

Note: In this study 'N-grams' refer to 4-word lexical bundles Raw Freq. = Raw Frequency, NF= Normalized frequency

As table 4 revealed, based on normalized frequencies native speakers employed more bundles comparing their counterparts. NF for NS is 10.59 and for NNS 8.86. To compare the frequency of extracted bundles of both corpora, 'Chi-square test' for statistical significance was done. The test was run by an online calculator named "Corpus Frequency Wizard Tool" which compared "the frequency of two samples across two different data sets" (Baroni & Evert, 2008). Different researchers employed this procedure to administer Chi-square test and compare the frequencies (Jiangang, 2017; Khazaee et al., 2020; Yakut & Yuvayapan, 2022). Figure 3 demonstrates the frequency comparison of lexical bundles in both native and non-native corpora and Figure 1 shows the results of comparison.

**Figure 1**Frequency Comparison of Bundles in Both NS and NNS Corpora via Corpus Frequency Wizard Tool

Two samples: frequency comparison

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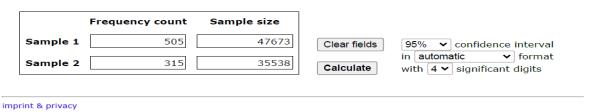


Figure 2
Corpus Frequency Test Result

# Corpus Frequency Test: Two Samples

enter new data

#### **Details**

G2 = 6.30115X2 = 6.06377



As figure 2 showed, a statistically significant difference was distinguished between native and non-native corpora in terms of the use of lexical bundles ( $X^2$ = 6.063; p< 0.05). It is interpreted that native corpus utilized significantly more bundles comparing to Iranian corpus. The fact that English L2 speakers employed fewer "lexical bundles" than native speakers has been confirmed by (Adel & Erman, 2012; Chen & Baker, 2010; Karabacak & Qin, 2013; Kashiha & Chan, 2015; Ma, 2009) in the previous researches. As the goal of the research is to investigate the "structural and functional" characteristics of "lexical bundles" in group discussions, the complete analysis of these two sets, is given through the study of all bundles which were found in both native and non-native corpora.

Below are a number of instances of the employment of "lexical bundles" in non-native corpus.

- .....honestly *I have no idea* about all the intricacies of anthropology, but it sounds like an extraordinary marvelous subject....
- .....when I talk about history I want you to *know what I mean* by studying events, people and societies from the past to gain insights into our current world...
- ....it doesn't have to be daunting task to delve into the realm of philosophy; it can be a rewarding journey of self-discovery and intellectual exploration....
- .....let's talk about the various branches of philosophy and how they shape our understanding of the worlds....
- .....a little bit more empathy and understanding can go a long way in bridging the political divides that exist in our country.....
- .....I was just wondering, have you ever thought about how anthropology can shed lights on our cultural identities....
- ......I understood that you have *spent a lot of money* recently, *so I want to* help find the way to manage your finances better......
- .....thank you very much because of your extraordinary interesting favour for introducing me some historical places in your hometown....
- ......that would be interesting to discover how various societies perceive and interpret the world around them....
- .....can be used as a symbol or clue, especially in historical investigations.....
- .....I don't understand why people don't pay attention to undeniable evidences.....
- ....you don't have to limit your soul between these issues...
- .....I guess you cannot tolerate philosophy and it looks dreamy for you.....
- .....this is hard to control your consumption and think about pros and cons...
- .....I am going to change your worldview and make you liberal......

# **Structural Distribution of LBs**

In addition to the occurrence table, decomposition of the corpus displayed that "university undergraduate learners" utilized combination of structures to form "lexical bundles" in their discussions. Outcomes of the analysis clarified, most of the objective bundles were 'phrasal' rather



than 'clausal'. These sequences mostly included either 'noun, prepositional or verb' phrases. Table 5 presents 'the number' of the most significant 'syntactic structures' of the bundles in 'group discussions'. In addition to raw frequencies, the percentage and normalized frequencies of bundles are reported in table.

**Table 5**Structural Division of Lexical Bundles in N and NN corpora

structural types	NS No. (%)	NF per 1000	) (+/-)	NNS No. (%)	NF per 1000
		words			words
verb phrase	23 (34.33)	0.48	+0.11	21 (46.67)	0.59
noun phrase and	34 (50.74)	0.71	-0.20	18 (40)	0.50
prepositional phrase					
dependent clause	10 (14.92)	0.20	-0.04	6 (13.33)	0.16
Total	67			45	

Note: NS refers to Native Speakers, NNS refers to Non-native Speakers

NF= normalized frequency; (+/-: A positive value denotes overuse, a negative value denotes underuse)

As it is specified in the table, NSs were employed 'noun phrase and prepositional phrase' fragments more than the two other sets. NSs used 'noun phrase and prepositional phrase' fragments 0.71 (50.74%), 'verb phrase' fragments 0.48 (34.33%) and 'dependent clause' fragments 0.20 (14.92%). While, NNSs indicated more propensity to 'verb phrase' fragments 0.59 (46.67%), actually non-native learners overused VP (+0.11) and underused the other two sub-groups. It's fascinating to declare that both 'native and non-native' corpora had roughly resembling employment of 'dependent clause fragments': NSs (14.92%) and NNSs (13.33%).

### **Functional Distribution of LBs**

As mentioned before, the "functional taxonomy" in current research can be dispensed into three sets: "stance bundle, discourse organizer, referential expression". In order to show precise results, analysis of the sequences was sub-classified for each part. According to Biber et al. (2004), "Stance bundles express attitudes or assessments of certainty that frame some other proposition. 'Discourse organizers' reflect relationships between prior and coming discourse. 'Referential bundles' make direct reference to physical or abstract entities, or to the textual context itself, either to identify the entity or to single out some particular attribute of the entity as especially important" (p. 384). The "functional classification" of all the '4–word lexical bundles' recognized in both native and non-native corpus of present study is presented in table 6.

**Table 6**Functional Division of Lexical Bundles in N and NN Corpora

functions	NS	No.	NF	per	(+/-)	NNS	No.	NF per 1000
	(%)		1000	words		(%)		words



stance expressions discourse	21 (31.34) 27 (40.29)		+0.09 -0.09	19 (42.22) 17 (37.77)	0.53 0.47
organizers referential	19 (28.35)	0.39	-0.14	9 (20)	0.25
expressions Total	67	1.40		45	1.26

Note: (+/-: A positive value denotes overuse, a negative value denotes underuse)

The results demonstrate that 'spoken language in group discussions' in native corpus contained '27 discourse organizers (40.29%)', followed by '21stance expressions (31.34%)', '19 referential expressions (28.35%)' respectively. The Ratio of Frequency per 1000 words is: 0.56, 0.44, and 0.39. Adopting the same calculation method in non-native corpus showed that they employed a higher variety of 'stance expressions' (0.53), in comparison to the N data (0.44). In contrast, NSs displayed more willingness to apply 'discourse organizers (0.56)' that was the second used function in the non-native corpus (0.47). Then we can get the difference between 0.53 and 0.44 was 0.09, which was a positive value indicating the overuse of 'stance expressions' in the Iranian undergraduate university learners. This result is not in line with Hyland (2008) and Esfandiari and Barbary (2017); since they came to conclusion that Iranian writers underuse "stance bundles". It can be due to cultural issues that are the root of the disinterest in making serious claims in academic writing (Estaji & Montazeri, 2022). Comparing the other two sub-sets revealed the negative value and underuse of both 'discourse organizers and referential expressions' in non-native corpus.

Jukneviciene (2009) proved, the features of speaking can be distinguished with 'stance expressions' and 'discourse organizing', whereas the features of written context could be discerned by 'referential expression' (Biber et al., 2000, 2004; O'Keeffe et al., 2007). "Referential expressions" describe approximately 'one third of the bundles in the native' and 'one fifth in non-native corpus (28.35% and 20% respectively)'. The distinction of all 'functional classifications' and its sub-sets are explained in the subsequent parts.

# **DISCUSSION**

The purpose of the current research was to compare lexical bundles used by Iranian advanced English learners and native English speakers. The results of the study showed that Iranian advanced English learners made less use of LBs at a lower frequency than English academic speakers. Structural analysis of LBs disclosed that VP-based bundles made up the greatest proportion of all bundle types in NNC, followed by NP-based bundles, and Dependent clause bundles. Though, NC revealed various patterns of employment where NP-based bundles comprised the largest proportion, followed by VP-based bundles, and Dependent clause bundles. Functional analysis of LBs revealed that "Stance bundles" made up the greatest proportion of all bundle types in NNC, followed by "Discourse bundles", and "Referential bundles". Though, NC revealed various patterns of employment where "Discourse bundles" comprised the largest proportion, followed by "Stance bundles", and "Referential bundles".



Following examples illustrate how the 'lexical bundles' are utilized in the main functions of the Iranian learners.

- ..... I don't know if you have ever pondered the big questions of existence but philosophy offers fantastic insights..... (Stance expressions)
- ..... I'm going to explore the field of anthropology to learn more about the rich tapestry of human existence...... (Stance expressions)
- ....it seems to me as a complex subject which is the study of existence and moral.....(Stance expressions)
- .....I'd like to say that history is fascinating subject that allows us to explore the past and understand how it has shaped the present..... (Discourse organizers)
- .....if you want to understand the complexities of American politics, it's important to stay informed and engage in discussions.....(Discourse organizers)
- .....as you can guess the first thing we learned was the principle of supply and demand.....(Discourse organizers)
- .....on the other hand it affects on your business and occupations.....(Discourse organizers)
- .....what do you think about financial affairs?.... (Discourse organizers)
- .....that would be good if some governors disclose some secrets which are hidden.....(Discourse organizers)
- .....at the end of the day, philosophy encourages us to critically examine our beliefs and seek deeper meaning.....(Referential expressions)
- .....for a long time anthropologists have been fascinated by the diversity of human cultures and their similarities ......(Referential expressions)
- .....this is hard to grasp at first but delving into history can provide us with valuable lessons and perspectives that can help us navigate the complexities of our modern world ......(Referential expressions)
- .....some people stuck to their prejudices for a long time.....(Referential expressions)
- .....in the same way there are many citizens who are not satisfied with their government......(Referential expressions)

Reviewing literature, the researcher has found that some scholars such as: "Cortes, 2004; Hyland, 2008; Ping, 2009; Shahriari Ahmadi et al., 2013; Wei & Lei, 2011" are in line with her. Since they found that non-native English learners utilized less lexical bundles compared to natives. But there are also some researches which are not in the same vein with this study. Lu and Deng (2019) discovered that Chinese doctoral students used LBs more frequently than their native-speaker counterparts, although they "exhibited incomplete knowledge of some aspects of the English lexico-grammatical system" (p. 1). According to Ahmadi et al. (2020) Persian writers employed significantly more lexical bundles of all types as noun modifiers compared to native writers.

The results of Bychkovska and Lee (2017) are similar to the findings of this study. They also found that native English speakers employed more "Phrasal bundles" than the non-native English learners, and conversely, used less "Clausal bundles". Pan et. al. (2016) found that the majority of the bundles utilized in the native corpus were "phrasal", whereas in the non-native corpus these bundles were not as common. This reveals that the non-native learners tend to employ more "clausal bundles" even at the more advanced level. This means that the nativeness and expertness both might be at play with respect



to utilize of "clausal bundles" in the non-native corpus (Chen & Baker, 2010). Similar to the native corpus of this study, the conclusion of some studies claimed that "noun phrase-based" and "preposition phrase-based" bundles were the eminent ones (Cui & Kim, 2023; Hyland & Jiang, 2018; Shirazizadeh & Amirfazlian, 2021).

The findings of this research correspond to preceding studies, which propose that 'verb-based bundles' are in the prominent structural classification employed by Iranian English learners (Chen & Baker, 2010; Chen and Baker, 2016; Ruan, 2017). Pan et.al. (2019) also concluded that the non-native learners employed more Verb-based bundles, particularly the 'Passive verbs + prepositional phrase fragment', than the native English writers.

Similar to the previous studies (Biber et al., 2004; Chen & Baker, 2010), LBs embedded with first person pronouns (e.g., *I think that, I think it is, I want to*) were overused across Iranian learners. The enhanced employment of the first-person pronoun helps readers follow up the discussion, and helps speakers to build their identity by highlighting their voice when conveying the idea. On the other hand, the use of lexical bundles, 'personal pronouns and stance bundles' support and builds on the results of previous studies (Chen and Baker, 2016; Staples et al., 2013).

On the other hand, some previous researches have shown that the use of bundles is discipline specific (Cortes, 2004; Hyland, 2008). For example, Cortes (2004) found that the students of History made a frequent use of "Clausal bundles", whereas the students of Biology made frequent use of "Phrasal bundles". So, the more frequent use of "Clausal bundles" in native and the non-native student writing might be due to data based on the disciplines that make more frequent use of clausal bundles. Shin (2018) also detected various results from the current study. She compared the employment of bundles in 'argumentative essays written by native and non-native English students'. She found that in both the native and the non-native corpora, the majority of the bundles were "clausal".

#### **CONCLUSION**

This study examined employment of four-word bundles in speaking group discussions of native and Iranian advanced English speakers. All through a corpus-based study, two corpora were contrasted based on their "occurrence, function and also structure". The findings of the analysis revealed that the NC included more lexical bundles than the Iranian corpus. Functionally, the results showed that Iranian speakers used 'stance expressions' more than the two other categories, whereas in NC speakers employed 'discourse organizer' more. Structurally, in the current study the evaluation exposed that learners' discussions included 'verb phrase' and then 'noun and prepositional phrase', but this is in contrast with NC. This research expectantly is practical for instructors, English learners and researchers. The result of this investigation can be used as a reference for those who desire to study in English teaching to improve students' speaking skills and form energetic classes by teachers through employing practical techniques for students and authentic teaching. Shirazizadeh and Amirfazlian (2020) suggested that highlighting lexical bundles in teaching materials can improve overall language fluency for non- native English speakers. It seems that instruction in LB usage may benefit from corpus-based learning approaches for exploring, comparing, and analyzing the positional distribution of bundles to resolve any discrepancies in the rhetorical conventions of LBs in advanced academic speaking (Cui & Kim, 2023). Mostly in Iran



context, the results of current study will be helpful for textbook compiler too. Further studies can provide a list of different lexical bundles from various related studies and design creative exercises for boosting speaking skill. Still, researches can investigate larger corpora in different contexts such as: university lectures, seminars and dialogues.

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