A Corpus Analysis of Metadiscourse Markers Used in Argumentative Essays by Pakistani Undergraduate Students

<sup>1</sup>Asmara Shafqat, <sup>2</sup>Faiza Arain, <sup>3</sup>Maheen Tufail Dahraj

ABSTRACT---Metadiscourse is considered as one of the significant rhetorical features and strategies in the production of any piece of written or spoken discourse. It establishes a relationship of the writer with the audience in any communication process. The present study aimed at determining the frequency distribution of metadiscourse markers in argumentative essays of undergraduate students in a private sector university. This quantitative study adopted Hyland's (2005) Interpersonal model of Metadiscourse. A corpus based software AntConc 3.5.7 was applied for a total of 124 argumentative essays. Finding of the study showed that the frequency of interactive metadiscourse markers was higher than interactional markers. It has also been observed that the most frequently used markers were transition markers whereas endophoric markers were used with less frequency. The results of the study have a few pedagogical implications. It highlights the importance of metadiscourse devices in learning and teaching writing skills in English Language Teaching (ELT) context and help to understand the norm of discourse markers. Moreover, metadiscourse analysis would benefit English language teachers to develop the writing skills of learners with appropriate use of metadiscourse devices.

Keywords---argumentative writing, corpus, discourse devices, metadiscourse.

## I INTRODUCTION

Writing is a social engagement process where writers engage their audience to convey their meanings. Writers use cues and indicators in their writing, which assist readers to understand and respond the text accordingly (Kumpf, 2000). Hyland (2004a; 2005b), described these cues and indicators as Metadiscourse markers. The effective use of metadiscoursemarkers helps readers to organize the content in a meaningful manner and develop an association with the reader. Students at all educational levels are required to write, however, at the tertiary level they are more often involved in different genres of writing such as essays, summaries, letters, reports, proposals and the like. Therefore, improving the quality of learning has become an important concern among undergraduate students.

<sup>&</sup>lt;sup>1</sup>Department of Humanities, NED University of Engineering & Technology, Karachi, Pakistan, University Road, Karachi-75270, Pakistan,asmarashafqat@neduet.edu.pk

<sup>&</sup>lt;sup>2</sup>Department of Humanities, NED University of Engineering & Technology, Karachi, Pakistan, University Road, Karachi-75270, Pakistan

<sup>&</sup>lt;sup>3</sup>Department of Humanities, NED University of Engineering & Technology, Karachi, Pakistan, University Road, Karachi-75270, Pakistan

International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 04, 2020

ISSN: 1475-7192

The term Metadiscourse can be described as "the cover term for the self-reflective expressions used to

negotiate interactional meanings in a text, assisting the writer (or speaker) to express a viewpoint and engage

with readers as members of a particular community" (Hyland, 2005; Woodlove & Vurly, 2017). These markers are

also considered as an essential rhetorical feature in any type of discourse (Chambliss & Garner, 1996; Hyland,

1996).

Harris (1958), used the term metadiscourse to offer a way to understand language usage, representing a

writers' or speakers' insight of a text to an audience. Writers for instance, Williams (1981), Kopple (1985), and

Crismore (1989), explored it further and they collected a number of discourse markers. Metadiscourse

encompasses the idea that language is not only about exchanging information, but it also takes into account the

perceptions and attitudes of the interlocutors (Hyland, 2005). Metadiscourse organizes the text in such a way that

it attempts to guide the audience about the writer's perception. It engages readers and writers in a meaningful

conversation, increases the readability, and signals the attitude of the writer towards its audience and reader

(Hyland, 2005).

The researcher observed in her own teaching context that students had lots of problems in using

metadiscourse markers. Previous research studies (Asghar, 2015; Muet al. 2015; Lu, 2011; Dafouz-Milne, 2008;

Hyland, 1999) also showed that students have limited knowledge of metadiscourse markers, while certain

metadiscourse markers are commonly used by them which implies a common rhetorical style. For that purpose,

this research was conducted to create awareness about metadiscourse markers, which in turn would boost the

writing quality. Many studies are being conducted on metadiscourse around the globe, although in Pakistan

research in this domain remains limited. Therefore, this current research aims to determine the use of

metadiscourse markers in the writing of undergraduate students' in Pakistani context.

The purpose of the current research was to examine how students perceive their opinions, point of views and

beliefs and engage with the audience through the deployment of metadiscourse markers in their essays.

The research study reflects on the following questions to be answered:

• What are the types of Metadiscourse markers employed by undergraduate students at the Public Sector

University?

• What is the highest and lowest number of frequencies of Metadiscourse markers in Argumentative essays?

The significance of the study is threefold. First, the notion of metadiscourse has been significant in many

ways; it expands the horizon of the text by characterizing it beyond the ideational dimension to its functions. It

does not only include an external reality, but the language itself depicts the writer's stance in the text and engages

in a social relation with the audience. Secondly, linguists can easily capture the stylistic deviation and frequency

based on the information about the usage of cohesive devices in the text. Lastly, the findings from the research

will help teachers to assess their students' written compositions and to make them aware of rhetorical

conventions in academic writing skills. Further, it helps teachers, curriculum developers, and material developers

in syllabus designing and error analysis. In addition to this, it would benefit learners to evaluate and improve

themselves accordingly.

DOI: 10.37200/IJPR/V24I4/PR201013 Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020

Accepted: 15 Jan 2020

II LITERATURE REVIEW

Around the globe, there are a considerable number of researches related to metadiscourse markers across

different genre in academic written discourse. Studies have recommended the significance of metadiscourse

markers in academic research articles (Hyland, 2001), postgraduate dissertations (Bunto, 1999), PhD

dissertations (Bunton, 1999; Smith et al., 2018), medical and library text (Mostafavi&Tajalli, 2012), popular and

professional science discourse (Crismore& Farnsworth, 1990), language & culture based articles (Moreno, 1997;

Ozdemir& Longo 2014), as a rhetorical art (Crismore, 1989), metadiscourse as a writing technique (Cheng

&Steffensen, 1996), as a feature of persuasive writing (Crismoreet al., 1993), ESL essays

(Intaraprawat&Steffensen, 1995) and CEO's letter (Hyland, 1998).

Halliday (1998), explained it as a varied collection of features which facilitate to relate a discourse or text to

its perspective and context of supporting readers to attach, systematize, and understand matter in a way chosen by

the author and with regard to the understandings and principles of a specific discourse community. In addition,

Hyland (2005), proposed the interpersonal model of metadiscourse that differentiates interactive and interactional

marker. The former markers are used to plan a text in a unified and coherent manner and reflect the author's

meaning explicitly. On the other hand, later are concerned with establishing a relationship with an audience and

drawing readers in an argument to involve them in the overall process of communication. The usage of both

types of marker varies across disciplines and in different genre of writing.

Cheng &Steffensen (1996), explored the use metadiscourse marker as a strategy to advance students writing

skills and how it reflects the quality of writing. A pre and post-test was conducted on a controlled and

experimental group to examine the usage of different types of markers in a text. The results have shown the

significant effect on the experimental group and it was suggested that use of metadiscourse markers not only

strength the textual features but it improves interpersonal dimensions of text as well.

Hyland &Tse (2004), argued that through metadiscourse markers writer can understand the use of

interpersonal markers that writer use in their proposition and it discovers the rhetorical and social conventions.

Achieving the purpose, 240 L2 dissertations from various disciplines were analyzed. The results have discovered

that writers employed slightly more interactive metadiscourse markers than interactional. It was also

recommended in their study that use of rhetorical features is independent of the writer's style and it is more

applicable in the context in which it occurs.

Kan (2016), attempted to determine the types and frequencies of interactional metadiscourse in different

sections of research papers of Turkish education and literature. It was revealed that Turkish language education

used more interactional marker than in the domain of literature. Wang & Zang (2016), compared the different

frequency and usage of metadiscourse in mathematical and linguistic academic papers. The result showed that

more interactive markers are used in the abstracts of both disciplined than interpersonal markers.

Bal-Gezegin (2016), study revealed interpersonal metadiscourse features were noticeably higher in the

English as compare to Turkish book review. In addition to this, variation was found in the use of hedges between

Turkish and English.Zhang (2016), conducted a multidimensional analysis of various written registers. A

reflexive model of metadiscourse was used. The result was interpreted in three dimensions: writer's presences,

text presentation and readers' guidance. It was revealed that more metadiscourse markers were used in

informative and abstract register than narrative and concrete registers. Also, it was revealed that more markers

were used for reader's guidance.

Asghar (2015), conducted a research to explore metadiscourse and contrastive rhetoric academic writing of

tertiary level students. Through analysis it was revealed that interactive and interpersonal markers were not used

effectively. It was suggested that awareness should be given to language learners about metadiscourse markers in

order to make their written composition well structured.

Ozdemir& Longo (2014), investigated cultural aspect of metadiscourse markers between Turkish and US

language learners. The results revealed both markers were higher in American culture and cultural differences

were also found. Anwerdeenet al. (2013), examined the frequency distribution of metadiscourse markers and

explore the error in using metadiscourse in writing. Results showed that student use textual discourse markers

more than interpersonal markers. In addition to this, it was also found that the students mixed the usage of

metadiscourse markers as preposition and adverbs in their writing.

Similarly, other research was conducted by Muet al. (2015), on English and Chinese corpus. It was concluded

that both corpus use more interactive than interactional metadiscourse makers. Similarly, Hyland (2010),

investigated 240 PhD and MS thesis consists of four million words. Using MonoConc software, 300 common

metadiscourse markers from Hyland (2005), framework was selected. The overall results conveyed that students

somewhat used more interactive markers as compared to interactional.

To conclude, metadiscourse is considered as an essential feature in promoting communication between

readers and writers, negotiating propositions, and building relationship with an audience. Yet regardless of this, a

little has been explored about the way metadiscourse markers are being used in Pakistani context. This paper

aims to address this gap.

The research has used the Hyland's Interpersonal model of metadiscourse (2005). In his book Metadiscourse-

Exploring interaction in writing a comprehensive model has been presented which many researchers have used.

Hyland (2005) has further categorized interactive in five subcategories: transitions logical connectives, frame

markers, endophoric markers, evidential and code glosses. Interpersonal metadiscourse has five subcategories:

hedge, boosters, attitude markers, engagement markers or relation markers and self-mentions.

Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020

Table 1:Hyland's(2005) Interpersonal Model Of metadiscourse

Table 1 Hyland's (2005)Interpersonal Model of Metadiscourse					
Category	Function	Examples			
Interactive	Help to guide the reader through the text	Resources			
Transitions	expressive relations between main clauses	in addition; but; thus; and			
Frame markers	refer to discourse acts, sequences or stages	finally; to conclude; my purpose is			
Endophoric markers	refer to information in other parts of the text	noted above; see Fig; in section 2			
Evidentials	refer to information from other texts	according to X; Z states			
Code glosses	elaborate propositional meanings	namely; e.g.; such as; in other words			
Interactional	Involve the reader in the text	Resources			
Hedges	withhold commitment and open dialogue	might; possible; perhaps; suggest			
Boosters	emphasize certainty or close dialogue	in fact; definitely; it is clear that			
Attitude markers	express writer's attitude to proposition	unfortunately; I agree; surprisingly			
Self-mentions	explicit reference to author(s)	I; we; my; me; our			
Engagement markers	explicitly build relationship with reader	consider; note; you can see that			

(Hvland, 2005, p. 49)

The table 1 shows the first subcategory in interactive category is transition; it is used to make connections at phrasal and sentential level, such as *in addition, but, thus, and so on*. It provides cohesion by making explicitly clear and signals how one idea is related to another. The second sub-category is frame markers. It is further categorized into sequencing, label stages, announce goals and topic shifts. It includes phrases for example *firstly, finally, in a nutshell*, and phrases to announce goals for example, *now you have to and my purpose here is to*.

Another category is endophoric markers, which refer information to the other parts of the text such as, *noted* above, see fig 1, and discussed earlier. The next sub-category is evidential it is the information that has been cited from other sources or outside the text such asaccording to X/Y, 2009 Z states, beliefs, suggests and literatures shows. The last sub-category is Code glosses "supply additional information, by rephrasing, explaining or elaborating what has been said and to ensure the reader is able to recover the writer's intended meaning" (Hyland, 2005), such as in other words, it can be defined as, and for example.

On the other hand, the next main category is interactional markers, which includes hedges. These words assist writers in "allowing information to be presented as an opinion rather than a fact and therefore open that position to negotiation" (Hyland, 2005), such as *possible, might, could and perhaps*. The second sub category is booster that refers to the extent writer is certain about his or her own argument and position in the text. The writers not only acknowledge diverse point of view, but he or she confronts them with his single alternative and confident point of view such as *I believe, certainly, it is clear, the fact that and it is clear*. The next sub-category is attitude markers. It reflects the writer's attitude to propositions and it "convey surprise, agreement,

DOI: 10.37200/IJPR/V24I4/PR201013

Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020

importance, obligation, frustration, and so on" (Hyland 2005). For examples, surprisingly, I agree, prefer,

hopefully and unfortunately. Furthermore, the second last sub-category is relational or engagement markers; it

addresses the audience attention and overtly involves them in the meaningful exchange. In addition, it is also

used to create an impression of authority, integrity and credibility (Hyland, 2005), with the readers as an audience

such as let us, note that and you. Finally, the last sub category is self-mention as its name suggests it refers to the

writer's existence in the text through first- person pronouns as I or possessive adjectives such as me, mine and

ours (Hyland, 2005).

III METHODOLOGY

The present study employed quantitative research as it contains statistical data analysis. A corpus of 124

essays by Pakistani students were analyzed. They were currently enrolled in the first semester of their academic

discipline. Quantitative research analysis was applied to determine the frequency distribution of metadiscourse

markers in the argumentative essays.

The corpus can be defined as "a large collection of naturally occurring authentic text, stored in an electronic

base of millions of words that have actually occurred in real life" (Cutting, 2015). It consists of both written and

spoken corpora. In this study, written corpus is used in the form of essays and it consists of 124 argumentative

essays by undergraduate students. The nature of the essays was argumentative. Students were enrolled in a four-

year program at a public sector university. It was the first semester, which is considered as a foundation course

entitled functional English. The collected corpus was named as CUPSW (Corpus of undergraduate Pakistani

students' writing). The written corpus consists of 27539 tokens and 2147 types. It was a self-made corpus as the

essay writing assignment was given to students. They were told to write argumentative essay of approximately

250 words. The topic for the essay was to agree or disagree if online learning is as good as face-to-face learning.

AntConc 3.5.7 software was used to examine the frequency of metadiscourse markers in written discourse.

AntConc is "a freeware, multi-platform, multi-purpose corpus analysis toolkit, designed by the author for specific

use in the classroom". Its features include concordance tool, cluster N-grams, collocates and frequency and

keyword list.

In the study, corpus analysis was used to find all the occurrences of words in a corpus. For that purpose,

AntConc was used it's a computer package software known as a concordance program (Cutting, 2015). It not

only shows database of words in a corpus, but it also examines the "co-text to the most frequent lexical phrases

and grammar within same line" (Cutting, 2015).

The corpus was collected in the form of essays and converted into electronic corpus. Wordlist was made by

adapting the Hyland's list of Interpersonal Metadiscourse markers. Then, AntConc concordance software was

applied to count the frequency of the words from Hyland's (2005) list of Interpersonal Metadiscourse markers. In

addition, concordance was checked to ensure the context of Metadiscourse markers.

DOI: 10.37200/IJPR/V24I4/PR201013

Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020

## IV RESULTS AND DISCUSSION

Table 2: Frequency Distribution of Interactive Metadiscourse Markers

Table 2						
Frequency Distribution of Interactive Metadiscourse Markers						
Category	F	%				
Frame markers	134	6.85%				
Transitions	1599	81.7%				
Endophoric markers	28	1.4%				
Evidential	88	4.5%				
Code glosses	106	5.4%				

If we look at table 2, the subcategories of interactive metadiscourse are transitions, frame markers, endophoric markers, evidential and code glosses which have 134, 1599, 28, 88 and 106 occurrences respectively.

Table 3:Frequency Distribution of Interactional Metadiscourse Markers

Frequency Distribution of Interactional Metadiscourse Markers						
F	%					
166	12.7%					
168	12.9%					
140	10.7%					
538	41.4%					
286	22%					
	F 166 168 140 538					

In addition to this, in table 3, the subcategories of interactional discourse are hedges, boosters, attitude markers, engagement markers and self-mention which have 166, 168, 140, 538, 286 occurrences respectively. The results also revealed that transition markers are found to be the most frequently used in interactive metadiscourse followed by engagement markers and self-mentions. Whereas, the least frequent markers are endophoric marker as it has only 28 hits and they contribute only 1.4 %.

DOI: 10.37200/IJPR/V24I4/PR201013

Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020

Table 4:Overall Distribution of Interactive and Interactional Metadiscourse

Table 4 Overall Distribution of Interactive and Interactional Metadiscourse						
	Interactive	Interactional	Total			
	Metadiscourse	Metadiscourse				
Frequency	1955	1298	3253			
Percentage	60.09%	39.9%	100%			

According to table 4, the findings demonstrate that the frequency of interaction Metadiscourse markers was higher than interactional markers in argumentative essays. Table 4 shows that the frequency of interactive metadiscourse was 1955 (60.09%) and for interactional metadiscourse, 1298 (39.9%). The percentage gap of metadiscourse devices was 20.19. The findings of the research were parallel to other metadiscourse related studies such as Wang & Zang (2016), Asghar (2015), Muet al. (2015), Anwerdeenet al. (2013), Hyland &Tse (2004). The results of these studies claimed the frequency of interactive metadiscourse markers were higher than interactional. Conversely, the results of the study were in contrast with Bal-Gezegin (2016) and Kan (2016), wherein the frequency of interactive metadiscourse was comparatively higher. Mohamed & Rashid (2017), claimed that the effective use of interactionalmetadiscourse markers is dependent on the writing ability of a writer and he also added "experienced writers are expectedly writing with more interactional metadiscourse as compare to inexperienced writer especially undergraduate" (p. 217). It is quite relevant that students in the current study were also fresh undergraduate who have just started their academics. Therefore, it could be one of the reasons of less usage of interactional markers in their writing as they might not be aware of rhetorical conventions of writing. Usually at this point students are more inclined towards grammatical accuracy and academic vocabulary and they pay less attention to the interactive dimension of their writing. This can also be taken in other ways, for example, when students are given specific word limit; students are bound to use less interactional marker to make their arguments clearly framed and to reduce the chances of refutation and maximize the possibility of acceptance in their proposed arguments.

The result of the study also revealed that students used all metadiscourse markers in their writing, but the frequency of a few metadiscourse markers is much higher than others. The most frequent markers in the subcategory are transitions; it constitutes 81.7% of the entire corpus. It reflects how the writers guide readers to move from one idea to another through examples, comparison, time, results and the like. It is quite evident that

students have used transitional signals to make their argument clear and logically organized for their audience. An interesting pattern in the findings is the usage of engagement or relation markers in the corpus. Hyland (2010)

defined as it "explicitly address readers, either by selectively focusing their attention or by including them as

participants in the text though second person pronouns, imperatives, question form and asides" p. 129). It is the

second most frequently used markers as it reflects how the students explicitly engage the reader into their

arguments by creating and maintaining relationships with them through various ways, for example, let us, you,

arguments by creating and maintaining relationships with them through various ways, for example, ter

our and like.

The use of metadiscourse markers implies how we project ourselves in any piece of writing by signaling our

position, opinions, attitudes toward the content and the audience of the text. It helps to build the relationship with

an audience by achieving credibility. This is an important finding in the understanding of the different functions

of a text and the use of metadiscourse markers in the rhetorical characterization of any text. The results suggested

that awareness should be given to language learners regarding the usage of sub categories of markers not only to

improve their writing skills but to make their writing more interactive and reader friendly.

The study also comes with a few limitations Firstly, because of the time constraint, this study was limited to

only one Public Sector university. Secondly, it has used small corpus because the assignment of essay writing

was a part of sessional activities. Lastly, it was limited to one classroom only.

V CONCLUSION AND IMPLICATION

The research aimed to determine the use of metadiscourse marker in the writing of undergraduate students'

writing in Pakistani context. From the results of the study, it is concluded that ESL undergraduate students used

more interactive markers than interactional markers. The research made several contributions. Firstly, it will help

teachers to teach metadiscourse markers in their foundation or basic English language course. This would not

only improve their efficiency and proficiency in writing, but it also helps them to add a variety as well. In

addition, the knowledge of metadiscourse markers will help learners to analyze language for social interaction.

The results of the study have a number of pedagogical implications. It highlights the importance of

metadiscourse devices in learning and teaching writing skills in English Language Teaching (ELT) context, and

helps understand the norm of discourse markers. Metadiscourse markers enhance the quality of writing, therefore

this study will help other researchers explore it further in multiple dimensions and in different genres as well.

In addition to this, it provides a new dimension to the novice and experienced researcher to use corpus

analysis in multiple domains to get an insight of the functions that language perform in a variety of contexts. It

provides lexicographers and grammarians "objective, evidence-based description of patterns and function"

(Cutting, 2015). It assists textbook writers and material designers to pick texts based on authentic language for

students. Most importantly, language teachers can guide students by showing some concordance lines to make

them identify their errors and recognize the most frequently used words in their writing. Last but not the least,

Cutting (2015) claimed that corpus analysis is the best way to analyze language learners' needs.

REFERENCES

- 1. Anwardeen, N. H., Luyee, E. O., Gabriel, J. I., &Kalajahi, S. A. R. (2013). An Analysis: The Usage of Metadiscourse in Argumentative Writing by Malaysian Tertiary Level of Students. *English Language Teaching*, 6(9), 83-96.
- 2. Asghar, J. (2015). Metadiscourse and Contrastive Rhetoric in Academic Writing: Evaluation of a small academic corpus. *Journal of Language Teaching and Research*, 6(2), 317-326.http://dx.doi.org/10.17507/jltr.0602.11
- 3. Bal-Gezegina, B. (2016). A Corpus-based Investigation of Metadiscourse in Academic Book. *Procedia-Social and Behavioral Sciences*, 232, 713-718.
- 4. Bunton, D. (1999). The use of higher level metatext in Ph. D theses. *English for specific purposes*, 18, S41-S56.https://doi.org/10.1016/S0889-4906(98)00022-2
- 5. Carretero, M. (2016). Cutting, J.(2015). Pragmatics: A resource book for students. https://doi.org/10.1075/resla.29.2.10car
- 6. Chambliss, M. J., & Garner, R. (1996). Do adults change their minds after reading persuasive text?. *Written Communication*, *13*(3), 291-313.https://doi.org/10.1177%2F0741088396013003001
- 7. Cheng, X., &Steffensen, M. S. (1996). Metadiscourse: A technique for improving student writing. *Research in the Teaching of English*, 149-181.
- 8. Crismore, A. (1989). *Talking with readers: Metadiscourse as rhetorical act* (Vol. 17). Peter Lang Pub Incorporated.
- 9. Crismore, A., & Farnsworth, R. (1990). Metadiscourse in popular and professional science discourse. *The writing scholar: Studies in academic discourse*, 118-136.
- 10. Crismore, A., Markkanen, R., &Steffensen, M. S. (1993). Metadiscourse in persuasive writing: A study of texts written by American and Finnish university students. *Written communication*, 10(1), 39-71.https://doi.org/10.1177%2F0741088393010001002
- 11. Dafouz-Milne, E. (2008). The pragmatic role of textual and interpersonal metadiscourse markers in the construction and attainment of persuasion: A cross-linguistic study of newspaper discourse. *Journal of pragmatics*, 40(1), 95-113.https://doi.org/10.1016/j.pragma.2007.10.003
- 12. Halliday, M. A. K. (1998). Things and relations. *Reading science: Critical and functional perspectives on discourses of science*, 185-235.
- 13. Harris, S. A. (1958). Differentiation of various Egyptian aeolian microenvironments by mechanical composition. *Journal of Sedimentary Research*, 28(2), 164-174.https://doi.org/10.1306/74D70790-2B21-11D7-8648000102C1865D
- 14. Hyland, K. (1996). Talking to the academy: Forms of hedging in science research articles. *Written communication*, 13(2), 251-281.https://doi.org/10.1177%2F0741088396013002004
- 15. Hyland, K. (1998). Exploring corporate rhetoric: Metadiscourse in the CEO's letter. *The Journal of Business Communication* (1973), 35(2), 224-244.https://doi.org/10.1177%2F002194369803500203
- 16. Hyland, K. (1999). Talking to students: Metadiscourse in introductorycoursebooks. *English for specific purposes*, *18*(1), 3-26.https://doi.org/10.1016/S0889-4906(97)00025-2
- 17. Hyland, K. (2001). Humble servants of the discipline? Self-mention in research articles. *English for specific purposes*, 20(3), 207-226.https://doi.org/10.1016/S0889-4906(00)00012-0
- 18. Hyland, K. (2004). Disciplinary interactions: Metadiscourse in L2 postgraduate writing. *Journal of second language writing*, *13*(2), 133-151.https://doi.org/10.1016/j.jslw.2004.02.001
- 19. Hyland, K. (2005). Metadiscourse: Exploring interaction in writing London. England: Continuum.
- 20. Hyland, K. (2010). Metadiscourse: Mapping interactions in academic writing. *Nordic Journal of English Studies*, 9(2), 125-143.
- 21. Hyland, K., &Tse, P. (2004). Metadiscourse in academic writing: A reappraisal. *Applied linguistics*, 25(2), 156-177.https://doi.org/10.1093/applin/25.2.156
- 22. Intaraprawat, P., &Steffensen, M. S. (1995). The use of metadiscourse in good and poor ESL essays. *Journal of second language writing*, 4(3), 253-272.https://doi.org/10.1016/1060-3743(95)90012-8
- 23. Kan, M. O. (2016). The use of interactional metadiscourse: a comparison of articles on Turkish education and literature.
- 24. Kopple, W. J. V. (1985). Some exploratory discourse on metadiscourse. *College composition and communication*, 82-93. https://doi.org/10.2307/357609
- 25. Kumpf, E. P. (2000). Visual metadiscourse: Designing the considerate text. *Technical communication quarterly*, 9(4), 401-424.https://doi.org/10.1080/10572250009364707

- ISSN: 1475-7192
- 26. Lu, L. (2011). Metadiscourse and genre learning: English argumentative writing by Chinese undergraduates (Unpublished Thesis). University of Hong Kong, Pokfulam, Hong SAR.http://dx.doi.org/10.5353/th\_b4599670
- Mohamed, A. F., & Rashid, R. A. (2017). The metadiscourse markers in good undergraduate writers' essays corpus. International Journal of English Linguistics, 7(6), 213-220.https://doi.org/10.5539/ijel.v7n6p213
- Moreno, A. I. (1997). Genre constraints across languages: Causal metatext in Spanish and English RAs. English for specific purposes, 16(3), 161-179.https://doi.org/10.1016/S0889-4906(96)00023-3
- Mostafavi, M., & Tajalli, G. (2012). Metadiscoursal Markers in Medical and Literary Texts. International Journal of English Linguistics, 2(3), 64.https://doi.org/10.5539/ijel.v2n3p64
- 30. Mu, C., Zhang, L. J., Ehrich, J., & Hong, H. (2015). The use of metadiscourse for knowledge construction in Chinese and English research articles. Journal of English for Academic Purposes, 20, 135-148.https://doi.org/10.1016/j.jeap.2015.09.003
- 31. Ozdemir, N. O., & Longo, B. (2014). Metadiscourse use in thesis abstracts: A cross-cultural study. Procedia-Social and Behavioral Sciences, 141, 59-63.https://doi.org/10.1016/j.sbspro.2014.05.011
- 32. Smith, V., Florence, K., & Maria, F. (2018). Semantics in cultural perspective overview. Linguistics and Culture Review, 2(1), 24-31. https://doi.org/10.37028/lingcure.v2n1.9
- 33. Wang, L., & Zhang, Y. (2016). An analysis of meta-discourse in the abstracts of English academic papers. Global Journal of Human-Social Science: Linguistics and Education, 16(9).
- 34. Williams, E. (1981). On the notions" Lexically related and Head of a word". Linguistic inquiry, 12(2), 245-274.
- 35. Woodlove, G. M., & Vurly, M. E. (2017). Political discourse approach applied the current study issue occurred. Linguistics and Culture Review, 1(1), 26-37. https://doi.org/10.37028/lingcure.v1n1.3
- 36. Zhang, M. (2016). A multidimensional analysis of metadiscourse markers across written registers. Discourse Studies, 18(2), 204-222.https://doi.org/10.1177%2F1461445615623907
- 37. Firas Hasan Bazzari. "Available Pharmacological Options and Symptomatic Treatments of Multiple Sclerosis." Systematic Reviews in Pharmacy 9.1 (2018), 17-21. Print. doi:10.5530/srp.2018.1.4
- 38. Van Wijk, R., Bosman, S., Ackerman, J., Van Wijk, E.P.A.Correlation between fluctuations in human ultraweak photon emission and EEG alpha rhythm (2008) NeuroQuantology, 6 (4), pp. 452-463.
- 39. Tamulis, A.Quantum mechanical control of artificial minimal living cells (2008) NeuroQuantology, 6 (3), pp. 311-322.

Received: 12 Oct 2019 | Revised: 23 Sep 2019 | Accepted: 15 Jan 2020