

The Effects of Using Pedagogic Corpus as Target Formulas for Direct Instruction in an Academic Writing Class

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Abstract. The purpose of this study is to investigate the effects of academic formula instruction using target formulas chosen from pedagogic corpus, on the use of the target formulas in an academic essay writing test, and the academic essay writing test scores. Two intact groups of Diploma in Computer Science students assigned as the experimental and control groups participated in the study. Each group consists of forty mixed ability ESL learners who were enrolled in an academic writing course. The study addressed two research questions. (1) What are the effects of formula instruction on the students' use of the target formulas? (2) What are the effects of formula instruction on the students' academic writing performance?

Keywords: Academic formulas, Formula instruction, Pedagogic corpus, Writing Performance

1. INTRODUCATION

Many researchers in the field of second language acquisition (SLA) have acknowledged the importance of formula acquisition for native-like competence and fluency (refer to Boers, Eykmans, Kappel, Stengers, Demecheleer, 2006; Boers & Lindstromberg, 2012; Roever, 2012; Wood, 2010; Wray, 2002;), and there is evidence which suggests that L2 learners can gain a lot of benefits from mastering formulaic language since knowledge of formulas correlates significantly with L2 proficiency level (Dai & Ding, 2010; Kennedy & Thrope,2007; Keshavarz & Salimi, 2007; Ohlrogge, 2009). However, there has been no conclusive agreement on which of these formulaic expressions should be directly taught in the second language classrooms, and the most suitable approach to formula instructions.

1.2 Objectives of the Study and Research Questions

The purpose of this study is to investigate whether direct instruction of academic formulas chosen from "pedagogic corpus" (Willis, 2003, p.163) is beneficial in improving ESL learners' academic writing ability. The objectives of the study are to determine the effects of direct teaching of academic formulas chosen from pedagogic corpus on the use of the target academic formulas (TAF) in the academic essay writing test and the students' academic essay writing test scores.

The study aims at addressing two research questions. (1) What are the effects of formula instruction on the students' use of the TAF? (2) What are the effects of formula instruction on the students' academic writing performance?

2. LITERATURE REVIEW

2.1 The Importance of Academic Writing to Tertiary Level Learners

Academic writing skill is important for tertiary level learners since students' academic performance is evaluated mostly based on written works (Kelley, 2008; O'Ferrell, 2005), and academic writing is a literacy practice which connects the students' admission into their disciplinary communities and the acquisition of the formal conventions associated with them (Leibowitz, Goodman, Hannon & Parkerson, 1997). The main characteristics of written academic English are its formal style of expression and precise word choice (Coffin et al., 2003) and one of the

defining features of academic prose is academic vocabulary. As stressed by Schoonen, Van Gelderen, Stoel, Hulstijn,De Glopper (2001, p. 33) academic writing draws heavily on linguistic resources a writer has and "a large vocabulary and a rich and flexible repertoires of sentence frames" will assist the writer to be clear and concise in his writing.

However, it has been reported that many Malaysian undergraduates lack both receptive and productive vocabulary knowledge expected for tertiary level studies (Jamian, Sidhu & Muzafar, 2008; Mathai, Jamian & Nair, 2004; Mokhtar, 2010) which in turn contributes to their poor academic writing performance. Findings from research have established the need for academic vocabulary instruction to develop undergraduates' proficiency in academic writing. Hinkel (2004) has proposed that in addition to grammar, academic vocabulary should also be explicitly taught in an academic writing class for ESL learners. Nevertheless, due to limited time allocated to developing academic writing at tertiary level, the selection of academic vocabulary to be explicitly taught has to be narrowed down in order for the proposal of direct instruction to be practical.

To address this matter the study has turned to second language acquisition (SLA) research which has accrued evidence on the highly formulaic nature of language based on research conducted in the fields of corpus linguistics and psycholinguistics (Biber, Conrad & Cortes, 2004; Biber & Barberi, 2007; Conrad, 2008; Ellis, 1996; Erman & Warren, 2000; Foster, 2001; Howarth, 1998; Rayson, 2008; Sinclair, 1991; Wray, 2002). Since multiword lexis or formulas, "fulfil the same functions as single words" (Boers & Lindstromberg, 2012, p. 84), similar to vocabulary knowledge which has been found to be a strong predictor of general proficiency (Lewis, 2002; Schmitt, Jiang & Grabe, 2011; Singleton, 2000), L2 learners' knowledge of multiword lexis has been found to correlate highly with proficiency level (Keshavarz & Salimi, 2007; Al-Zahrani, 1998; Zhang, 1993).

2.3 Vocabulary of Academic Prose

Vocabulary used in academia is often made up of multiword combinations (Biber & Barbieri, 2007; Cortes, 2002, 2004, 2006; Coxhead & Byrd, 2007; Schmitt, 2004). Corpus driven research has been conducted by many researchers (Biber, 2006; Simpson-Vlach & Ellis, 2010; Hyland, 2012) in the field of language teaching to identify the most commonly used word combination or formulas in academic discourse. According to Hyland (2012, p.150)"...these sequences...are simply extended collocations that appear more frequently than expected by chance, helping to shape meanings in specific contexts and contributing to our sense of coherence in a text." There are many different definitions and concepts of multiword unit and chunks but the term 'formula' in this study is adopted from the definition of formula proposed by Wray (2002, p. 9) who defines a formula as a sequence whether continuous or discontinuous of words or other elements, "...which is, or appears to be, prefabricated: that is, stored and retrieved whole from memory at the time of use, rather than being subject to generation or analysis by the language grammar".

2.4 The importance of Formula Instruction

According to Coxhead and Byrd (2007) academic formulas are important to writers and speakers because their repetition offers users (particularly students) ready-made sets of words to work with. Meunier (2012) stresses that formula instruction seems relevant for three reasons: (a) formulaicity is ubiquitous in language (Sinclair, 1991; Rayson, 2008), (b) formulaic use has been shown to be a marker of proficiency in L2 (Cortes, 2004; Hyland 2008), and (c) studies have demonstrated that L2 language learners find formulaicity challenging (Ang, Abdul Rahim, Tan & Salehuddin, 2011; Naderishahab & Tahririan, 2013), thus teaching the formulas would help learners improve their knowledge and use of formulas which in turn would improve their proficiency level.

2.5 Pedagogical Approach to Academic Formulas

One of the constraints faced by academic writing teachers is limited time allocated for academic writing classes. Thus, to ensure practicality of direct instruction of academic formulas, the number of formulas to be directly taught has to be narrowed down to a manageable size. Among the major problems faced by academic writing teachers are on deciding *'which formulas to teach?'* and *'how to* *teach them?*' Willis (2003) states that, "Pedagogically the main problem with phrases is that there are so many of them..." (166). Thus, this study has adopted the proposal by Sinclair and Renouf's (1988) to focus on the common uses of the common words and Willis's (2003, p. 163) suggestion of using "pedagogic corpus", corpus made up of texts used in the classroom as the resource for formula instruction. This is advantageous as the lexical phrases or formulas chosen for teaching are extracted from texts that learners have already processed for meaning. In addition, selecting the formulas to teach in this manner would ensure better contextualization, increase relevance and promote higher level of motivation among learners.

The next concern is 'how to teach' these formulas. In the absence of a welldefined methodological framework, Granger (2011) suggested that lexical approach could be integrated progressively via "mini-action programmes" as proposed by Lewis (2000: 153). For example, ESL teachers could conduct local experiments which are integrated into the teachers' preferred or imposed teaching curriculum. Researcher such as Kozlowski and Seymour (2003) have turned to current language learning theories which suggest that second language learners could store language in chunks and language patterns need to be heard, written, spoken and read repeatedly so that they would be imprinted in the learners long-term memory. Similarly, Wood (2002) also stressed that repeated exposure to written language that deals with specific content and in particular genre would facilitate comfort with written expression. Additionally, for most ESL learners the teaching materials used in the classroom provide the only context for 'priming' (Hoey, 2005). Thus, it is essential that ESL teachers provide 'helpful' priming in the classroom by utilizing materials that provide essential shortcuts to priming. Some of the examples given include usage notes, drilling exercises, texts or tapes with repeated instances of word sequence, collocational observations and illustrations.



Figure 2.1: The Pedagogical Framework

The pedagogical framework of the study is presented in Figure 2.1 The framework is divided into three main sections: (a) Receptive, Productive Vocabulary (RPV) Continuum, (b) Instructional Procedure and (c) Vocabulary Automatization Process. The RPV continuum shows the movement from receptively knowing the formulas to productively using the formulas in the academic essays. The instructional procedure provides detail accounts of how the target formulas are presented to the students, and the teaching activities which are involved. Finally, vocabulary automatization process shows the cognition processes involved at each stage of instruction.

3. METHODOLOGY

3.1 Design of the Study

A quasi-experiment was chosen for the study mainly due to the fact that the subjects were available in readily formed classes (intact groups). The research instrument for the study was an Academic Essay Writing (AEW) test which was used to measure the academic writing performance. The AEW test requires the subjects to write an academic essay based on their understanding of the issues discussed in two articles of the same theme which were provided. The test was adapted from the Academic Writing course past years' final examination test paper for the Academic Writing course to ensure the subjects' familiarity with the test format. The data was collected by administering pre and post Academic Essay Writing (AEW) test at the beginning and the end of the study period respectively.

The independent variable for the experimental group was the Direct Instruction of Academic Formula (DIAF) which was the *treatment*, plus academic writing instruction employing process writing approach. The independent variable for the control group was the academic writing instruction employing process writing approach without the treatment. The dependent variables for the study were; (a) the scores of the pre and post Academic Essay Writing (AEW) test, and (b) the number of target academic formula used in the post AEW test.

3.2 Research Population and Samples

The study involved two groups of Diploma in Computer Science students from a public Malaysian University assigned as the experimental and control groups. Each group consists of forty mixed ability ESL learners who were enrolled in an academic writing course (N=80). The Academic Writing course is the university's requirement for all diploma students in semester three. The pre requisites for this course are Preparatory English and Intermediate English which are offered in semester one and two respectively. Thus, the subjects for the study who were in their third semester had already passed both the pre requisite courses. They were from similar age group, ranging from 19 to 21 years old. They were homogeneous with regard to their mother tongue (Malay), cultural and educational background as well as the length of exposure to formal English as a second language (ESL) instruction.

Group	Ger	nder	I	Proficiency Level		Total (N)
	Male	Female	Advanced	Intermediate	Beginner	
Experimental	14	26	3	24	13	40
Control	15	25	4	23	13	40

Table 3.1: The Subjects' Demography

Table 3.1 shows the subjects' demography. Their proficiency level was determined based on the results of the Intermediate English course which they attended in the second semester.

3.3 Selection of Target Academic Formula (TAF)

Thirty TAFs were selected from the Academic Formula List (AFL) by Simpson-Vlach and Ellis (2010). Table 3.2 shows the selected formulas identified from the top 200 Written AFL list as target formulas to be used in the study. The target formulas were selected based on Willis's (2003, p.163) proposal that formula instruction should include "pedagogic corpus". The criteria for formula selection for this study were as follows: the formula should be used at least once a) in the Academic Writing course's prescribed textbook entitled EAP Crossing Borders (Michael et al., 2010) and / or b) in the supplementary material for the course. Table 3.2 shows the target academic formulas.

in relation to [1]	can be/ is/ are affected by[11]	due to the fact that[21]		
in response to [2]	give rise to[12]	as a consequence[22]		
(from)(the) point of view (of)	as well as[13]	as a result of[23]		
[3]	more/less likely to[14]	due to the[24]		
to distinguish between[4]	there are (three/a few/many)	can be achieved[25]		
the relationship between[5]	[15]	appears to be/ does not appear		
in conjunction with[6]	there are several[6]	to be[26]		
according to the[7]	there is/are no[17]	there has been/there have		
can be considered[8]	on the basis of[18]	been[27]		
a variety of[9]	in terms of (the) [19]	a large number of[28]		
with regard to[10]	in accordance with[20]	the number of[29]		
		(there) are a number (of) [30]		

Table 3.2: The Target Academic Formulas

Subjects from the experimental groups were exposed to the formulas through direct instruction while the subjects from the control groups were exposed to the formulas indirectly when using the course's prescribed textbook and the supplementary materials. Another consideration in TAF selection is that the formulas have to be recognizable to the subjects and are commonly found in teaching materials not only for the academic writing course but other courses in their academic discipline (i.e. lab report, term paper and written assignments).

3.5 Instructional Procedure

Since the study was conducted among students who were attending an academic writing course, the experimental variable, DIAF, was designed to fit into the course's current syllabus with minor adjustment to the course's schedule and scheme of work.

W 7 1-	TU ¹				
Week	Time	Type of Activity			
Three	2 hours	DIAF (Theme 1: Social Sciences and Humanities)			
		Highlighting TAF in the RC passages			
		Fill-in-the-blank/matching (sentence level)			
		Sentence construction using the formulas			
Five	2 hours	Practice for Theme 1			
		Develop Thesis statement & Topic sentences using TAF.			
		Write introductory & body paragraph of a cause & effect			
		essay.			
Eight	2 hours	DIAF (Theme 2:Science and Technology)			
		Highlighting TAF in the RC passages			
		Fill-in-the-blank/matching (paragraph level)			
		Sentence construction using the target formulas			
Nine	2 hours	Practice for Theme 2			
		Develop Thesis statement & Topic sentences using TAF			
		Write a draft of problem & solution essay			
Ten	2 hours	Write full Essay based on Theme 1			
		(Writing a cause & effect essay)			
Eleven	2 hours	Write full Essay based on Theme 2			
		(Writing a problem & solution essay)			

Table 3.3: DIAF Exercise Schedule

Both the experimental and control group's lecturers were furnished with lesson plans prepared for fourteen weeks. The control group utilised the course's existing lesson plans while the experimental group's lesson plans for week 3, 5, 8, 9, 10 and 11 were designed to accommodate DIAF. Since minor adjustments were made to the scheme of work, the lesson plans were also adjusted accordingly. DIAF involves three types of activities which were conducted during the experimental period. Table 3.3 shows the activities conducted during the experimental period.

3.6 Data Collection

Pre AEW test was conducted during the second week while post AEW test was conducted during the fourteenth week of the study period. The answer scripts for both pre and post AEW test were scored by two independent scorers who were not involved in the study. The marks awarded by both independent scorers were tabulated and averaged. The average scores were taken as the subjects' final pre and post AEW test scores. Marks allocation for the AEW test are as follows: (a) eight marks for content, (b) six marks for language, and (c) six marks for oranization. The total scores were then devided by twenty and converted to 100%.

After the second scorer had finished marking the post AEW test papers, the answer scripts were passed to the *third scorer*. The duty of the third scorer was to manually record the number of target academic formula used by the subjects.

4. DATA ANALYSIS AND FINDINGS

4.1 Addressing the First Research Question

To address the first research question, the frequency of TAF used in the post AEW test for the experimental and the control groups was compared. Figure 4.1 shows the frequency of TAF used in the AEW test for the experimental and the control group based on a scale. The use of 0 to 4 TAF is considered low (L), the use of 5 to 8 TAF is considered as moderate (M) while the use of more than 8 TAF is considered as high (H). Figure 4.1 shows the frequency of TAF used in the AEW test for the experimental and the control group based on a scale. Based on Figure 4.1 it can be seen that the experimental group used more TAF compared to the control group. Sixteen subjects from the experimental group are considered low (L) users of the TAF, twenty subjects fall into the category of moderate user (M) while four subjects are considered as high users (H). On the other hand, thirty one subjects of the control group are low users (L) while nine subjects are moderate (M) users.



Figure 4.1: The Frequency of TAF Used in the Post AEW Test

The use of 0 to 4 TAF is considered low (L), the use of 5 to 8 TAF is considered as moderate (M) while the use of more than 8 TAF is considered as high (H). Based on Figure 4.1 it can be seen that the experimental group used more TAF compared to the control group. Sixteen subjects from the experimental group are considered low (L) users of the TAF, twenty subjects fall into the category of moderate user (M) while four subjects are considered as high users (H). On the other hand, thirty one subjects of the control group are low users (L) while nine subjects are moderate (M) users.

Table 4.2 shows the list of TAFs and how frequent each of them was used during the post AEW test by the experimental and control groups. It can be seen from Table 4.2that the experimental group used more and a wider range of TAFs compared to the control group. The experimental groups used TAFs 209 times in total while the control group used them 106 times. It can be concluded that DIAF encourages the students to use TAFs in their writing.

		Experimental	Control	
		Group	Group	
	TARGET ACADEMIC	No. of Use	No. of Use	Total
	FORMULA (TAF)			
1	in relation to	3	0	3
2	in response to	0	0	0
3	from the point of view	2	0	2
4	to distinguish between	0	0	0
5	the relationship between	1	0	1
6	in conjunction with	1	0	1
7	according to the	29	55	84
8	can be considered	2	0	2
9	a variety of	25	10	35
10	with regard to	1	0	1
11	is/ are / can be affected by	2	0	2
12	give rise to	5	0	5
13	as well as	6	0	6
14	more/less likely to	3	1	4
15	(there) are a number (of)	5	2	7
16	a large number of	5	8	13
17	there are (three a/few/many)	17	6	23
18	there are several	23	9	32
19	the number of	16	8	24
20	there have been/ there has been	10	4	14
21	there is no	5	2	7
22	appears to be/ does not appear to be	5	0	5
23	on the basis of	1	0	1
24	in terms of	9	0	9
25	in accordance with	0	0	0
26	due to the fact that	8	0	8
27	as a consequence	3	0	3
28	as a result of	11	1	12
29	due to	10	0	10
30	can be achieved	1	0	1
	TOTAL	209	106	315

Table 4.2: Frequency of TAF used in the Post AEW Test

4.2 Addressing the Second Research Question

To answer the second research question, one way ANCOVA on the overall mean score of the post AEW test with the overall mean score of pre AEW test assigned as covariates was conducted to determine whether the difference between the mean scores of the experimental and the control groups in the post AEW test was significant if their previous knowledge is statistically controlled. Table 4.3 shows the results of one-way ANCOVA for the overall scores.

	Type III Sum				
Source	of Squares	df	Mean Square	\mathbf{F}	Sig.
Corrected Model	9284.582^{a}	2	4642.291	57.399	.000
Intercept	3445.063	1	3445.063	42.596	.000
PRE_AEW	6753.332	1	6753.332	83.500	.000
METHOD	2474.103	1	2474.103	30.591	.000
Total	296950.000	80			
Corrected Total	15512.188	79			
Dependent Variable: POSTAEW_SCORES					
a. R Squared = .599 (Adjusted R Squared = .588)					
b. Computed using alpha = .05					

Table 4.3: Results of One-Way ANCOVA for the Overall Scores.

Based on the table, the probability value obtained for 'PRE_AEW' is 0.000 which is smaller than the predetermined alpha value of 0.05. This indicates that there is significant difference in the mean scores between the experimental and control groups when students' previous knowledge is statistically controlled. The probability value obtained for 'METHOD' (Experimental group: *Process writing class with DIAF*; Control group: *Process writing class without DIAF*) is also 0.000 which is smaller than the predetermined alpha value of 0.05. There also exists adequate evidence to show that there is significant difference in the mean scores between the experimental and control groups according to methods of instruction. The value of adjusted \mathbb{R}^2 is 0.588 which means that the independent variable (METHOD) can account for 58.8 % of the variance in the dependent variable (post AEW test scores).

Next, to examine whether there is significant difference between the means of the experimental and the control groups for the three separate components of the post AEW test when the students' previous knowledge is statistically controlled, one way ANCOVA was conducted on the scores of the 'Content', 'Language' and 'Organization' components with the mean scores of each component in the pre AEW test used as their covariates.

Source	Type III Sum	df	F	Sig	\mathbb{R}^2	Adjusted
	of Square					\mathbb{R}^2
Pre-Content	480.442	1	38.940	0.000	0.369	0.353
Method	92.579	1	7.504	0.008	0.000	0.000
Pre-Language	1030.253	1	49.381	0.000	0.511	0.498
Method	681.176	1	32.650	0.000	0.011	0.100
Pre-Organization	359.598	1	23.865	0.000	0.359	0.343
Method	237.227	1	15.744	0.000	0.000	0.010

Table 4.4: The results of one-way ANCOVA for AEW Test Components

Based on Table 4.4, the probability value obtained for all the three components; 'Pre-Content', 'Pre-Language' and 'Pre-Organization' is 0.000. This suggests that there is significant difference in the mean scores between the experimental and control groups when students' previous knowledge of each component is statistically controlled. The probability values obtained for 'METHOD' for 'content', is 0.008 while the values for both 'language' and 'organization are 0.000 respectively. These values are also smaller than the predetermined alpha value of 0.05 which means that there is significant difference in the mean score between the experimental and control groups according to methods of instruction. The adjusted R² values for 'content', 'language' and 'organization' components are 0.353, 0.498 and 0.343 respectively. These results indicate that the independent variable (DIAF) can account for 35.3% of the variance in the 'content' component,

49.8% of the variance in the 'language' component and 34.3% of the variance in the 'organization' component.

It can be inferred from the ANCOVA results that the experimental group performed significantly better than the control group in the overall scores as well as the scores for all the three writing components after going through the treatment (DIAF). DIAF can account for more of the variances in 'language' component compared to 'organization' and 'content' components.

Finally, to quantify the strength of the difference between the means of the experimental and the control groups, the effect size of DIAF on the overall academic writing performance was calculated.

AEW TEST	EFFECT SIZE	INTERPRETATION
COMPONENTS		
Content	0.45	small
Language	0.98	large
Organization	0.86	large
Overall	0.87	large

Table 4.5: Effect Size of DIAF on the Academic Writing Performance

Table 4.5 shows the effect size for the overall AEW test performance and the three different components of the AEW test. Based on Table 4.5, it can be seen that effect size of DIAF on academic writing 'content' component is small but the effect size is large for 'language' and 'organization' components.

5. CONCLUSIONS AND SUGGESTIONS

Drawing from the findings of the study, it can be concluded that DIAF has positive effects on the subjects' academic writing performance since the experimental group outperformed the control group in the post AEW test for all the three writing components ('content', 'language' and 'organization') and the effect size of DIAF on the 'content' component of the AEW test is small but the effect size for 'language' and 'organization' components is large. It can be concluded that the direct instruction of academic formulas (DIAF), using target formulas chosen from pedagogic corpus, incorporated into an academic writing class is beneficial at enhancing the students' receptive knowledge of the target formulas as well as improving their academic writing skills. Although the time allocated for DIAF in the study was limited, the effect size of DIAF as a whole is large. This suggests the importance of formula instruction and the flexibility of DIAF that it could be successfully implemented in an academic writing class with an institutionally imposed syllabus. Thus, it is recommended that DIAF be implemented in academic writing class and the target formula selection should be based on pedagogic corpus.

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