EFL Learners’ Writing Self-efficacy and Relationship with Metacognitive Strategies*

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Abstract—The present study investigated EFL learners writing self-efficacy and their metacognition. 97 English major students from a university were selected as participants. Two questionnaires assessing learners’ self-efficacy and metacognitive strategies were administered. The study found that high achieving students had high self-efficacy level and high metacognition, while low achieving students had low self-efficacy and low metacognition. Besides, self-efficacy and metacognition are significantly positive correlated. This study has theoretical as well as pedagogical implications. EFL teachers should enhance learners’ self-efficacy and train their metacognitive strategies so as to improve their writing achievements.

Keywords—self-efficacy; metacognition; EFL; English writing

I. INTRODUCTION

As one of the five basic skills in language learning, English writing that can really embody EFL learners’ comprehensive and integrative linguistic proficiency, is the most sophisticated and difficult one for them to acquire because writing is not a linear process but a recursive one, which involves not only intra-linguistic elements such as lexical, syntactic and discoursal factors but also includes inter-linguistic elements as writing purposes, target readers and writers’ cognitive development. Many writing instruction approaches are adopted with an aim to promote writing competence of EFL students, such as genre-based writing approach and product-oriented approach, which are product-centered and regardless of learners’ cognitive development. Therefore, a more comprehensive approach is needed to be employed in the classroom setting. Writing is a complex process involving different factors, among which self-efficacy and language learning strategy are two salient ones affecting learners’ writing proficiency. As one category of learning strategies, metacognitive strategies aroused people’s attention. Considerable research has shown that proper use of metacognitive strategies has positive influence on learners’ language performance (Oxford & Crookall, 1989; Oxford & Burry-stock, 1995; O’Malley & Chamot, 1990/1999/2001; Arnold, 2000). Self-efficacy has also evoked great interest among educational psychologists, and many studies have proven its effect on academic performance and students’ language gains (Pajares & Johnson, 1996; Zimmerman & Bandura, 1994). However, research on metacognitive strategies and self-efficacy in the context of EFL learners’ writing is rare and a few identified studies correlate them and find out inherent connection between them. Therefore, this study aims to investigate SFL learners’ use of metacognitive strategies and their English writing self-efficacy profiles and to examine the correlation between the two aspects.

II. LITERATURE REVIEW

A. Self-efficacy

Since Bandura first introduced the concept of self-efficacy, it has received extensive supports from a growing system of findings from diverse fields. Many studies have proved that self-efficacy exerts considerable influence on the academic achievements of a learner (Zimmerman & Bandura, 1994; Pajares & Johnson, 1996). Individuals with strong efficacy beliefs evaluate themselves as capable of effective performance, while with weak sense of efficacy evaluate themselves as less capable (Pajaries, 2009). Researchers have also reported that efficacy beliefs affected the career choices of individuals, particularly in science and mathematics (Pajaries, 2003). Findings revealed that self-efficacy beliefs of teachers were related to their instructional practice and the academic progress of their students (Pajaries & Valiante, 1997). Some studies claimed that students’ self-efficacy beliefs were positively correlated with their autonomous learning capability (Li & Yu, 2008; Yan, 2010; Tao, 2013; Liu, 2014; Xu & Li, 2014) and their learning motivation (Qin & Wen, 2002; Wu, & Zhang, 2009). Therefore, it is critical to improve students’ self-efficacy beliefs to facilitate their language acquisition (Wang, Schwab, Fenn, & Chang, 2013). The reliability and validity of self-efficacy scales have also been studied and discussed to provide valid instruments for measuring learners’ self-efficacy (Wang, Hu, & Liu, 2001; Wang, Kim, Bai, & Hu, 2014). Writing self-efficacy is defined as students’ self-evaluation of their own writing skills (McCarthy, Meier & Rinderer, 1985). It is also regarded as individuals’ judgment of their competence in writing, specifically their ability to write different wiring tasks and of their possession of

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varying composition, usage, and mechanical skills (Pajares, 2003). Some researchers have confirmed that students’ self-efficacy in their writing skills is positively related to their writing performance (McCarthy, Meier & Rinderer, 1985; Shell, et al., 1989; Pajares & Johnson, 1996; Pajares & Valiante, 1997; Tang, & Xu, 2011; Li, Liu, & Liu, 2013; Yan, & Zhang, 2015). Other researchers explored the writing self-efficacy differentiation among students of different genders and ages (Shell, Colvin & Bruning, 1995; Pajares and Johnson, 1996).

B. Megacognitive Strategies

Metacognition was defined as self-cognition of an individual’s own activity, consisting of two important elements, metacognitive knowledge and metacognitive strategies (Flavell, 1976). Metacognitive strategies were divided into three groups, centering, arranging and Planning, evaluating (Oxford, 1989). They were also been classified into seven subsets including superior organization, evectional  focus, directed focus, self-monitoring, self-management and problem viewing (O'Malley & Chamot, 1990). A series of studies found positive correlation between the use of metacognitive strategies and students’ performance in their learning. It was claimed that metacognitive strategy trainings play a significant role in the improvement of learning (O'Malley et al., 1985). Holec (1987) showed that there is a correlation between the changes of learners’ learning beliefs and their evaluation and planning. Students’ metacognitive knowledge also has considerable influence on the feasibility their learning approaches (Wenden, 1995). Besides, some specific instructions in second language learning and language strategy use did influence learners’ speaking ability (Cohen, 2000). However, the study conducted by Purpura showed that there was no lucid evidence to prove that there was a correlation between metacognitive processing and students’ learning beliefs (Purpura, 1997). There is a substantial body of research on self-efficacy and learning strategies, but studies on the relationship between metacognitive strategies and English writing self-efficacy are rare. Based on the framework of the previous studies, this present study sets out to examine the questions as follows.

- Are there any writing self-efficacy differences among high, intermediate and low achieving students?
- Are there any differences in the use of metacognitive strategies among high, intermediate and low achieving students?
- What is the relationship between EFL learners’ use of metacognitive strategies and their writing self-efficacy?

III. METHODOLOGY

A. Participants

97 English major sophomores are randomly selected by convenient sampling from the Faculty of Humanities and Languages in Xi’an University of Technology: 82 (84%) males, 15 (16%) females, aging from 19 to 22 years old. Their years of English learning range from 7 to 14 years. All the students were classified into three groups: high, intermediate and low according to a writing test which was held before the study. The high group consists 30 students, intermediate 47 and low 20 students.

B. Instruments

The Questionnaire of Metacognitive Strategies in English Writing is designed based on the metacognitive strategy classification system (O’ Malley & Chamot, 2001), which contains 27 items and is measured on a 5-point rating scale from 1 (never) to 5 (always), aiming at obtaining the information of students’ metacognitive strategy use in writing (see Appendix 1). The Questionnaire of English Writing Self-efficacy is formulated according to Pajares et al. (2000), aiming at testing students’ writing self-efficacy beliefs, which consist of 10 items, all of which are measured on a 5-point rating scale from 1(no chance) to 5 (completely sure) (see Appendix 2). The two questionnaires have been translated into Chinese. Two semi-structured face-to-face interviews are employed before and after the training respectively to obtain more data about the students’ perspectives on the use of metacognitive strategies and self-efficacy in the process of writing. Ten subjects from the experimental group and ten from the control group will be invited to state their responses to ten open-ended questions. One writing test is assigned to students before the study as the pre-test to measure their writing proficiency and give them a classification. The writing test is consistent with the writing part in the TEM-4 (Test for English Majors Band 4) in terms of forms and difficulty. Three teachers in the English Department who are not involved in the study are chosen to assess all the students’ writings in order to avoid subtle individual biases and increase the credibility and validity of the study. The three raters who are involved in the writing assessment need to be trained and the scoring criteria of TEM-4 are considered to be the main reference rules for the evaluation. The total score of each task is 15 points and two teachers rate all the compositions. If the score of an essay has a gap of 2 points between the two raters, then the third rater will rate it again. The mean of the three raters’ scores will be the final result.

IV. DATA ANALYSIS AND DISCUSSION

<table>
<thead>
<tr>
<th>TABLE 1.</th>
<th>SELF-EFICACY DIFFERENCES</th>
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<tr>
<td>Writing levels</td>
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<tr>
<td>High</td>
<td>30</td>
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<tr>
<td>Intermediate</td>
<td>47</td>
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<td>Low</td>
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As shown in "Table 1", high level achieving students have high self-efficacy (3.89 on average). By contrast, low writing level students have lowest self-efficacy, only 2.45. This result shows that writing scores have positive correlation with self-efficacy levels. High achieving students have more confidence. They are likely to persevere in challenging tasks, which low-achieving students would choose to withdraw when difficulties arise. Therefore, in the classroom teaching, teachers should try to make students highly motivated, enhance their interest in teaching materials and
promote their self-efficacy, which will in turn increase their writing achievements.

<table>
<thead>
<tr>
<th>Metacognition</th>
<th>High</th>
<th>Intermediate</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>4.02</td>
<td>.325</td>
<td>3.22</td>
</tr>
<tr>
<td>Monitor</td>
<td>3.75</td>
<td>.528</td>
<td>2.58</td>
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<tr>
<td>Regulate</td>
<td>3.29</td>
<td>.423</td>
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“Table II” shows the metacognition differences among high, intermediate and low writing categories. Metacognition has been subclassified in three categories: planning, monitoring and regulating abilities. Students with high writing levels are good in metacognition while poor achieving students are low in planning, monitoring and regulating in the process of writing. This suggests that EFL learners should be trained to equip themselves with relevant metacognitive awareness and abilities. They are expected to learn some strategies such as planning their time, making outline, make schedule, monitoring time and attention, regulate and review, etc.

<table>
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<tr>
<td>Plan</td>
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<tr>
<td>Monitor</td>
<td>.235</td>
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<td>Regulate</td>
<td>.467</td>
<td>.361</td>
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</table>

“Table III” gives a clear indication that self-efficacy have significantly positive correlation with metacognition. Writing process is complex and all the elements are interwined with each other and all play a part in the writing achievements. Students with high self-efficacy have more metacognitive strategies and students with low self-efficacy are lack of metacognition. They are closely associated with each other and contribute to the EFL learners’ writing achievement.

V. CONCLUSION

The present study investigated EFL learners writing self-efficacy and metacognition. College level students were chosen as the participants. The study found that high achieving students have high self-efficacy level and high metacognition, while low achieving students have low self-efficacy and low metacognition. Besides, self-efficacy and metacognition are significantly positive correlated. This study has pedagogical implications. EFL teachers should enhance learners’self-efficacy and train their metacognitive strategies so as to improve their writing achievements.

REFERENCES


TABLE II. METACOGNITION DIFFERENCES

<table>
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TABLE III. CORRELATION BETWEEN SELF-EFFICACY AND METACOGNITION

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