

A Model of Textual Features Predicting Writing Quality of Chinese EFL Learners in the Continuation Task

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Abstract: Writing assessments, especially in China, have increasingly employed the continuation task, an integrated reading-writing task in which students read an incomplete story and then finish the story logically. This paper mainly employs the Coh-Metrix text processing Software to analyze the textual features that influence the writing quality of Chinese English as a foreign language (EFL) learner in the continuation task. Based on quantitative analysis, the following results are gained. Firstly, fluency, grammatical accuracy, lexical complexity, and cohesion are correlated with the writing score to such a degree that their indices account for 15% , 31.9% , 19.4% , and 23.6% of its variance, respectively. Secondly, the predictive model of writing quality is Writing Score (in a twenty-five-mark system) = $-11.844+0.017\times\text{Number of Words}+2.580\times\text{Grammatical Accuracy}+0.041\times\text{The Ease of Constructing Mental Images for Content Words}$, which accounts for 52.4% of the variance in the evaluation of continuation writing quality. The findings are beneficial for both EFL teaching and English writing assessment.

1. Introduction

Integrated tasks—such as reading-writing or reading-listening-speaking tasks—have been increasingly employed on large-scale tests [1]. Reading and writing share some cognitive processes in second language (L2) integrated assessment tasks [2, 3]. The continuation task, a type of integrated reading-writing task in which students read and complete an incomplete story, has recently received considerable attention in China, arguably for two main reasons. First, it has been adopted in the National Matriculation English Test (the NMET, also called college entrance examination or gao kao)—one of the largest and most impactful standardized tests in the country [4, 5]—in an increasing number of provinces since its first use in the NMET in 2016 (specifically the version from Zhejiang Province, the NMET-ZJ). Second, the continuation task is beneficial to improving L2 students' learning and promoting instructional efficiency among teachers [6-13]. Several previous studies have focused on the alignment effect in the continuation task [7, 14-16] and the change in students' writing-related anxiety after training for it [17]. By contrast, the relationship between textual features and writing performance in the continuation task remains underexplored. The current study intends to fill this research gap by mainly taking advantage of the Coh-Metrix text processing Software to quantize textual features in Chinese EFL high school learners' continuation writing in order to establish a model for predicting continuation writing quality from textual features.

2. Literature review

2.1 The continuation task

Source text usage is becoming increasingly common on college-level writing tests [18]. The continuation task is a relatively new form of integrated reading-writing task that requires L2 learners to read an incomplete story and finish it logically, coherently, and creatively according to the material and prompts presented [16]. It is based on the interactive alignment model, which assumes that successful dialogue involves alignment between interlocutors [19]. The concept of alignment in the interaction between reading materials and L2 learners was extended by Wang who claimed that the

continuation task helps language learners complete the writing task by providing a source text that offers textual and non-textual support, and that it enhances language learning via stimulating learner interaction and alignment with the source text [20, 21]. Empirical research shows that the continuation task helps learners alleviate writing-related anxiety [17, 22], reduces form-based mistakes [16], yields more accurate and complex language than independent writing tasks [6], and promotes vocabulary acquisition that is superior to the reading plus continued cloze task [13]. Researchers have also systematically verified the continuation task's reliability, validity, difficulty, and practicality, and have found it applicable for assessing learners' writing ability in large-scale and high-stakes language testing contexts [23, 24].

In view of the continuation task's theoretical basis and the empirical evidence for its ability to enhance learning as well as its reliability, validity, and feasibility regarding writing assessments, it has gained increasing popularity, including its adoption in the NMET in an increasing number of China's provinces [21, 24]. Accordingly, researchers have begun to study the continuation task on the NMET [10, 25, 26]. Chen [25] illustrated the continuation task's positive impact on the NMET through quantitative and qualitative analyses. Moreover, Chen and Zhang [26] carried out an empirical study and proposed a set of measures to ensure the high-quality evaluation of the continuation task on the NMET.

2.2 Past empirical research on the link between textual features and writing quality

Many studies have shown that textual (including cohesive, syntactic, and lexical) features are positively correlated with L2 writing quality. The study [27] indicated that lexical diversity and syntactic complexity comprise a big proportion of textual features in the assessment of writing quality. Lexical frequency, readability, and cohesion had a positive correlation with writing scores [28]. Crossley et al. [29] adopted nine Coh-Metrix syntactic indices to explore the syntactic complexity of the writings of 57 English learners within four months; they found that the syntactic complexity of the learners' writing improved noticeably over time, and that the reduced number of clauses was significantly related to the learners' improved writing scores. Crossley et al. [30] discovered that the use of global, local, and text cohesion collectively explained 42% of the variance in the overall judgment of writing proficiency. However, other scholars have drawn different conclusions. Bao [31] and Li [32] employed the Coh-Metrix computer program to examine the influence of writing proficiency on textual features and found no significant differences in lexical complexity among college English learners with different composition levels. Other studies demonstrated that the indicators of cohesive features analyzed by Coh-Metrix did not differ significantly between writings with high and low scores [27, 33].

Prior studies on the continuation task have primarily concentrated on college students [14, 16, 17, 34], while the trend of using this task in the NMET in an increasing number of Chinese provinces has drawn more attention to high school students. Furthermore, the connections between writing quality and textual features in the continuation task have not yet been systematically studied. The present study aims to fill the gap in the literature by exploring the link between writing quality and textual features in the continuation task.

3. Research design

3.1 Research participants

The participants in the study were 120 eleventh-grade EFL students (75 females, 45 males) from an ordinary senior high school in the Sichuan Province in China. They had earned an average of 16 out of 25 points on their most recent English writing exam, which was representative of most students.

3.2 The writing test

We adopted the continuation task of the NMET 2021 (see Appendix A), with the prompt providing the opening sentences of two continued paragraphs.

The reading material on the continuation writing task was a narrative that told the story of a pair

of twins preparing gifts for their mother on Mother’s Day. When choosing this reading material, we primarily considered that the overall content of the passage would be close to students’ actual lives, and that all the words in the reading material are the basic words that students are supposed to have mastered at their level.

3.3 Measures

To study students’ textual features, we used Coh-Metrix 3.0, which is an online tool for text analysis that combines a variety of technologies involving computer and corpus linguistics (see <http://141.225.61.35/CohMetrix2017/>). Coh-Metrix 3.0 automatically analyzes up to 106 grammatical, lexical, and semantic features of the text, covering 11 modules: referential cohesion, latent semantic analysis (LSA), lexical diversity, connectives, syntactic complexity, and syntactic pattern density, among others [35]. We used 20 measures (see Table 1), adapted from Shi et al. [36], to examine the textual features of the students’ continuations from five dimensions (fluency, grammatical accuracy, lexical complexity, syntactic complexity, and cohesion). We chose these features because they are correlated with L2 writing proficiency [29, 30, 35, 37].

Table 1. Measures of analyzing the textual features in the writing

| Category | Measures | Description | Tool |
|----------------------|--|--|----------------|
| Fluency | Text length | the total number of words per essay | Coh-Metrix 3.0 |
| Grammatical accuracy | Three-point grammatical accuracy scale | the ability to be free from grammatical errors while using language to communicate | Human rating |
| Lexical complexity | Measure of textual lexical diversity | a measure of lexical diversity that is not influenced by text length | Coh-Metrix 3.0 |
| | Incidence of content words | the number of nouns, adverbs, adjectives, and main verbs per 1,000 words | |
| | Concreteness of content words | a measure of the extent to which the content words are concrete or abstract | |
| | Imageability of content words | a measure of the ease of constructing mental images for content words | |
| Syntactic complexity | Mean sentence length | the total number of words in each sentence | Coh-Metrix 3.0 |
| | Number of words before the main verb | the average number of words before the main verb | |
| | Number of modifiers per noun phrase | the mean number of modifiers per noun phrase | |
| | Passive voice density | the number of agentless passive forms per 1,000 words | |
| | Syntactic similarity of adjacent sentences | the extent to which adjacent sentences in a sample have similar structures | |
| Cohesion | Incidence of all connectives | occurrence of all connectives per 1,000 words | Coh-Metrix 3.0 |
| | Incidence of causal connectives | occurrence of causal connectives per 1,000 words | |
| | Incidence of logical connectives | occurrence of logical connectives per 1,000 words | |
| | Incidence of adversative and contrastive connectives | occurrence of adversative and contrastive connectives per 1,000 words | |
| | Incidence of temporal connectives | occurrence of temporal connectives per 1,000 words | |
| | Incidence of additive connectives | occurrence of additive connectives per 1,000 words | |
| | LSA overlap between adjacent sentences | similarity between the two adjacent sentences | |
| | LSA overlap between adjacent paragraphs | similarity between the two adjacent paragraphs | |
| | LSA given-new | the proportion of new information in each sentence | |

3.4 Research procedure

First, all participants finished the continuation task within 40 minutes. The entire testing process in the classroom was supervised by the school’s English teachers. Second, three teachers with extensive experience in scoring the NMET rated the students’ writings on the continuation task

according to the five-level holistic scoring rubric for the continuation task on the NMET, with a total possible score of 25 (see Appendix B). The rubric included four key criteria: (1) the connection between the main ideas of the reading material and completion of the writing task; (2) the completion and richness of the continued writing; (3) the choice of vocabulary and grammatical structure; and (4) the overall structure and coherence of the article. We adopted Pearson's correlation analysis to test the consistency of the scores given by the three teachers; the consistency was high ($r=.83, .82, .80$, respectively, $p<.01$), indicating the reliability of the scoring results. After checking the consistency of the scores calculated by the three teachers, we took the mean score as the final score of each student. Third, We roughly adopted three-point grammatical accuracy scale to holistically judge the grammatical accuracy of the students' writing: one point means there are many grammatical errors in the writing sample that affect understanding of the text; two points indicate that there are some errors in the writing sample that generally do not affect understanding of the content; three points mean that there are few or no grammatical errors in the writing sample, and understanding of the content is not affected. Grammatical accuracy was scored using human rating. Finally, we analyzed students' 19 textual features on the continuation task using Coh-Metrix 3.0.

4. Results and discussion

Since the purpose of this study is not only to build a predictive model of text quality, but also to test the predictive power of the model, we randomly divided 120 writing samples into two sets at a ratio of 3:1, namely, a training set with 90 writing samples and a test set with 30 writing samples. The results of independent-samples T test showed that there was no significant difference between the scores of the two sets ($t=.136, p=.892$) (see Table 2).

Table 2. Differences in writing scores between two sets

| Writing Samples | N | Mean | Standard Deviation | F | p | t | p |
|-----------------|----|-------|--------------------|-------|------|------|------|
| a training set | 90 | 14.75 | 2.69 | 2.026 | .157 | .136 | .892 |
| a test set | 30 | 14.68 | 2.18 | | | | |

After the training set and the test set were divided, we perform Pearson correlation analysis to find out which textual features are significantly related to the writing quality (score) on the training set and the more relevant ones are further conducted by the unitary linear regression analysis. Then, a predictive model is generated through the multivariate linear regression analysis. Finally, the predictive model is verified using the data on the test set.

4.1 Pearson correlation analysis and unitary linear regression analysis

we conducted Pearson's correlation analysis with a two-tailed test and found out that there were relationships of varying degrees between writing quality in the continuations and all textual features except for syntactic complexity. Table 3 only reports positive correlations with statistical significance, namely p-values less than 0.05.

Table 3. Correlations between textual features and writing scores

| Category | Index | r | p |
|----------------------|---|--------|------|
| Fluency | Text length | .399** | .000 |
| Grammatical accuracy | Three-point grammatical accuracy scale | .571** | .000 |
| Lexical complexity | Concreteness of content words | .388** | .000 |
| | Imageability of content words | .451** | .000 |
| Cohesion | LSA overlap between adjacent sentences | .304** | .004 |
| | LSA overlap between adjacent paragraphs | .494** | .000 |
| | LSA Given-New | .431** | .000 |

Note: **. Correlation is significant at the 0.01 level (2-tailed).

A positive relationship was found between text length and writing scores, between the three-point grammatical accuracy scale and writing scores, between concreteness of content words and writing scores, between imageability of content words and writing scores, between LSA overlap between adjacent sentences and writing scores, between LSA overlap between adjacent paragraphs and writing

scores, and between LSA Given-New and writing scores at the significance of 0.000, .000, .000, .000, .004, .000, .000, respectively. The correlation coefficients were .399, .571, .388, .451, .304, .494, .431, respectively.

We selected the indicators that have the highest correlation with the writing performance in each category and carried out unitary linear regression analysis (see Table 4).

Table 4. Results of the unitary linear regression analysis

| Category | Predictable Variables | R | R ² | Adjusted R ² | F | Unstandardized Coefficients | Standardized Coefficients | T |
|----------------------|---|------|----------------|-------------------------|-----------|-----------------------------|---------------------------|-----------|
| Fluency | (constant) | .399 | .159 | .150 | 16.679*** | 9.392 | .399 | 6.998*** |
| | Text length | | | | | .033 | | 4.084*** |
| Grammatical accuracy | (constant) | .571 | .326 | .319 | 42.635*** | 7.952 | .571 | 7.450*** |
| | Three-point grammatical accuracy scale | | | | | 3.015 | | 6.530*** |
| Lexical complexity | (constant) | .451 | .203 | .194 | 22.430*** | -5.789 | .451 | -1.332 |
| | Imageability of content words | | | | | .046 | | 4.736*** |
| Cohesion | (constant) | .494 | .244 | .236 | 28.434*** | 11.116 | .494 | 15.322*** |
| | LSA overlap between adjacent paragraphs | | | | | 7.668 | | 5.332*** |

Note: Dependent Variable: writing score; *** $p \leq .001$

Table 4 presents that the adjusted effect sizes were .150, .319, .194, .236, respectively; namely, text length, three-point grammatical accuracy scale, imageability of content words, and LSA overlap between adjacent paragraphs accounted for 15%, 31.9%, 19.4%, and 23.6% of the variance in the writing scores, respectively. According to Cohen [38], the effect size of grammatical accuracy was large ($R^2 > .25$). This means that grammatical accuracy had strong predictive power for the continuation writing scores.

4.2 Multivariate linear regression analysis

Pearson correlation analysis shows that there is a collinearity between the seven indicators and the writing scores (see Table 3), so we conduct multivariate linear regression analysis for these indicators according to the stepwise entry method, and the results are shown in Table 5.

Table 5. Model summary

| Model | Predictable Variables | R | R ² | Adjusted R ² | F | Unstandardized Coefficients | Standardized Coefficients | T | Collinearity Statistics | | | | |
|------------|-----------------------|------|----------------|-------------------------|-----------|-----------------------------|---------------------------|-----------|-------------------------|-------|----------|------|--------|
| | | | | | | | | | Tolerance | VIF | | | |
| 1 | (constant) | .571 | .326 | .319 | 42.635*** | 7.952 | .571 | 7.450*** | 1.000 | 1.000 | | | |
| Variable 1 | 3.015 | | | | | 6.530*** | | | | | | | |
| 2 | (constant) | .708 | .501 | .489 | 43.623*** | -10.816 | .546 | -3.065** | .996 | 1.004 | | | |
| | Variable 1 | | | | | 2.884 | | 7.201*** | | | | | |
| Variable 2 | .043 | .418 | 5.512*** | .996 | 1.004 | | | | | | | | |
| 3 | (constant) | .735 | .540 | .524 | 33.703*** | -11.844 | .489 | -3.457*** | .920 | 1.087 | | | |
| | Variable 1 | | | | | 2.580 | | 6.412*** | | | | | |
| | Variable 2 | | | | | .041 | | .394 | | | 5.343*** | .982 | 1.018 |
| | Variable 3 | | | | | .017 | | .209 | | | 2.724** | .907 | 1.103 |
| 4 | (constant) | .760 | .578 | .558 | 29.095*** | -3.352 | .512 | -3.852*** | .908 | 1.102 | | | |
| | Variable 1 | | | | | 6.780 | | 6.922*** | | | | | |
| | Variable 2 | | | | | 4.517 | | .977 | | | 4.370*** | .099 | 10.060 |
| | Variable 3 | | | | | 3.212 | | .211 | | | 2.851** | .907 | 1.103 |
| | Variable 4 | | | | | -3.136 | | -.616 | | | -2.750** | .099 | 10.106 |
| 5 | (constant) | .776 | .603 | .579 | 25.498*** | -11.128 | .493 | -3.352*** | .896 | 1.117 | | | |
| | Variable 1 | | | | | 2.600 | | 6.780*** | | | | | |
| | Variable 2 | | | | | .101 | | .985 | | | 4.517*** | .099 | 10.063 |
| | Variable 3 | | | | | .019 | | .234 | | | 3.212** | .889 | 1.124 |
| | Variable 4 | | | | | -.072 | | -.694 | | | -3.136** | .097 | 10.349 |
| | Variable 5 | | | | | 6.294 | | .174 | | | 2.295* | .824 | 1.214 |

Note: Dependent Variable: writing score; *** $p \leq .001$; ** $p \leq .01$; * $p \leq .05$

Variable 1: Three-point grammatical accuracy scale; Variable 2: Imageability of content words;

Variable 3: Text length; Variable 4: Concreteness of content words; Variable 5: LSA overlap between adjacent sentences

Among the five models, model 5 has the highest goodness of fit and can explain 57.9% of the variance in the writing scores. However, the tolerances of variables 2 and 4 in both model 5 and model 4 are low, and the variance inflation factor is high, suggesting the existence of collinearity between two variables. Pearson correlation analysis shows that the correlation coefficient of variable 2 and variable 4 is high ($r=.948, p\leq.01$), suggesting that there is a strong collinearity between two variables. Therefore, model 3 is the optimal model, and the three predictors combined account for 52.4% of the variance in the continuation writing scores. To be specific, the predictive model of continuation writing quality is: Writing score (in a twenty-five-mark system) $=-11.844+2.580\times$ Three-point grammatical accuracy scale $+0.041\times$ Imageability of content words $+0.017\times$ Text length.

4.3 Model verification

The predictive model of continuation writing quality was generated, we need to verify it. Based on the predictive model, we calculated the scores of 30 writing samples in the test set (group 2, pair 1) and compared them with the scores obtained by manual grading (group 1, pair1), and found that the correlation between the two groups reached a significant level ($r=.696, p=.000$). However, the paired sample T-test showed a significant difference between the two groups ($t=-3.002, p=.005$).

Table 6. Paired samples statistics

| Writing Samples | | N | Mean | Standard Deviation | r | sig. | t | sig. |
|-----------------|---------|----|-------|--------------------|------|------|--------|------|
| Pair 1 | Group 1 | 30 | 14.68 | 2.18 | .696 | .000 | -3.002 | .005 |
| | Group 2 | 30 | 15.56 | 1.89 | | | | |
| Pair 2 | Group 1 | 26 | 14.86 | 2.06 | .759 | .000 | -1.905 | .068 |
| | Group 2 | 26 | 15.37 | 1.80 | | | | |

The four writing samples with the largest differences in scores between two groups were excluded (see pair 2 in table 6), namely, for 86.67% of the writing samples in the test set, the paired sample T-test showed no significant differences in scores between the two groups ($t=-1.905, p=.068$), correlation coefficient between the two groups is .759 ($p=.000$).

4.4 Discussion

We systematically examined the link between writing scores and textual features and found relationships to varying degrees between writing quality (the holistic score) and all textual features (including fluency, grammatical accuracy, lexical complexity, and cohesion) except for syntactic complexity.

In terms of fluency, our finding is like Du and Cai's research results [28] that the longer EFL learners write compositions within the time limit, the higher their English proficiency level is.

Importantly, grammatical accuracy has strong predictive power for writing quality in our research, which is consistent with previous findings [39-42].

From the perspective of lexical complexity, our findings support previous studies [27, 28] that advanced English learners use more varied and complex vocabulary in writing than poor learners.

The results on cohesion approximately support prior studies [28, 30] that high-proficiency English learners tend to use cohesive devices to produce more coherent texts than low-proficiency English learners.

Surprisingly, syntactic complexity does not correlate with students' writing quality in our study which is inconsistent with the studies [27-29]. The discrepancy might have resulted from the difference in participants' proficiency levels in the studies. The participants in their research who were English native speakers or college-level ESL learners could produce complex syntactic structures, whereas our participants who were eleventh-grade EFL students from an ordinary high school in the Sichuan Province could only write relatively simple syntactic structures.

5. Conclusion

We aimed to explore the relationship between textual features and students' writing quality on the continuation task to offer suggestions for EFL learning and instruction, especially in China, where more provinces are planning to implement a new integrated reading-writing task in the NMET following the exam reform policy. Our findings revealed that fluency, grammatical accuracy, lexical complexity, and cohesion have significant correlations with continuation writing scores. To be specific, three indices, including text length, grammatical accuracy, and imageability of content words, combined account for 52.4% of the variance in the continuation writing scores. The findings in our study also imply that grammatical accuracy has the strongest predictive power for writing quality in continuations; this conveys the importance of grammar in EFL learning and instruction for both teachers and students.

The current study has some limitations and implications for future research. First, the participants were accustomed to independent task writing based on a provided outline and recently exposed to an integrated writing task. Whether the lack of new writing skills affects our findings requires deeper investigation. Second, we collected writing samples from 120 students, the sample size should be expanded in future research. Last, grammatical accuracy was scored using human rating in the study which was possibly subjective to a certain extent, thus, measuring grammatical accuracy in future studies will be as objective as possible.

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