Spelling Errors in Thai Made by Chinese Students Learning Thai as a Foreign Language

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Abstract

When learning a foreign language, it is important to learn how to spell accurately as it is crucial for communication. To spell Thai language accurately is challenging for both native and foreign learners of Thai. However, studies that address spelling errors made by foreign learners of Thai are rare. The purpose of this paper is to analyze patterns and causes behind spelling errors made by Chinese students learning Thai as a foreign language. Data was taken from thirty Chinese students who took part in a Thai language composition writing and dictation task. The results suggest that the main spelling problem for Chinese students is spelling Thai vowels (37.5%), followed by initial consonants (20.7%), final consonants (20.4%), unpronounced letters (18.0%), tone markers (2.2%), and others (1.2%). In terms of underlying causes of spelling errors, irregularities in Thai language and interference from Chinese phonology are the two main causes for their spelling errors. Moreover, carelessness, differences between the Chinese and Thai writing systems, and influence from Thai native speakers also account for some of the spelling errors produced among the Chinese students.

Keywords

spelling errors in Thai – foreign language learning – language transfer

บทคัดย่อ

ข้อผิดพลาดด้านการสะกดคำไทยของนักศึกษาจีนที่เรียนภาษาไทยเป็นภาษาต่างประเทศ

การเรียนรู้วิธีการสะกดคำที่ถูกต้องมีความสำคัญอย่างยิ่งในการเรียนภาษาต่างประเทศเนื่องจากการสะกดที่ถูกต้องเป็นพื้นฐานของการสื่อสารอย่างมีประสิทธิภาพการสะกดคำภาษาไทยเป็นสิ่งท้าทายสำหรับเจ้าของภาษาและผู้เรียนชาวต่างประเทศ อย่างไรก็ตาม การศึกษาที่เกี่ยวข้องกับข้อผิดพลาดด้านการสะกดภาษาไทยของผู้เรียนต่างประเทศนั้นยังมีอยู่น้อยและไม่ครบถ้วน ดังนั้น งานชิ้นนี้จึงมีจุดประสงค์ที่จะวิเคราะห์รูปแบบและสาเหตุของข้อผิดพลาดด้านการสะกดคำไทยของนักศึกษาจีนที่เรียนภาษาไทยเป็นภาษาต่างประเทศ ข้อมูลที่ใช้ในการวิเคราะห์มาจากการเขียนบทความและการเขียนตามคำบอกของนักศึกษาจีน จำนวน 30 คนที่เรียนภาษาไทยเป็นภาษาต่างประเทศ ผลการวิเคราะห์พบว่าปัญหาหลักของนักศึกษาจีนคือการสะกดสระไทย (37.5%) รองมาคือการสะกดพยัญชนะต้น (20.7%) พยัญชนะท้าย (20.4%) ตัวอักษรที่ไม่ออกเสียง (18.0%) วรรณยุกต์ (2.2%) และข้อผิดพลาดอื่น ๆ (1.2%) ผลวิจัยยังพบว่าความสลับซับซ้อนของภาษาไทยและการแทรกแซงจากระบบเสียงของภาษาจีนเป็นสาเหตุหลักสองประการที่ทำให้นักศึกษาจีนสะกดคำไทยผิดพลาดนอกจากนี้ยังมีข้อผิดพลาดจำนวนเล็กน้อยเกิดจากความประมาทในการเขียนความแตกต่างระหว่างระบบการเขียนของภาษาจีนกับภาษาไทย และการเลียนแบบวิธีการใช้คำของเจ้าของภาษาไทย

1 Introduction

In the field of foreign language learning, the role of spelling has been debated for a long time. Some regard it as a sub-skill of writing and allocate it with limited attention. However, more scholars and researchers have realized the importance of spelling in foreign language learning. Brosh (2015: 585) stated that spelling is central to reading and writing. Correct spelling is considered as the, “ticket to the literacy club, the heir to the traditions and scholarly world of print” (Bean and Bouffler 1987: 67). Whereas spelling errors are strongly criticized since they always convey wrong information and sometimes can be obstacles for effective communication (Alhaisoni, Al-Zuoud, and Gaudel 2015: 185).

Due to the important role of spelling, scholars and researchers with different academic backgrounds have started to pay more attention to it. Even so, related studies are still in their infancy. Data in spelling acquisition from languages other than English are quite scarce due to the international dominance of English (Dich 2011: 3), as more than 950 million people hold English as a second language and correct spelling in English is definitely needed when it is used as a lingua franca (Saville-Troike 2006). Researchers have studied extensively spelling errors in English made by students of various native languages, including: Arabic, Japanese, African American, Korean, and etc., (Mahmoud 2013; Gunion 2012; Treiman and Bowman 2015; Kim 2001). Findings of those studies point in the same direction, which is that spelling errors in foreign

languages are mainly brought about by two causes: one is the target language itself because of learners' incomplete mastery of foreign language rules, the other involves interference from learners' native languages. However, this conclusion has not been proven in spelling errors in languages other than English.

Thai is one such language which has received insufficient attention in L2 spelling research. Actually, the distinctive writing system of Thai makes it an interesting case to study. Winskel and Iemwanthong (2009: 1022) pointed out that, "Thai has an alphabetic script, which also shares properties with syllable scripts, as it has implicit vowels for some consonants." Moreover, more and more foreigners have started to learn Thai as a foreign language due to the development of Thailand and the practicability of the Thai language (Plaengson 2017: 17). However, studies related to foreigners' spelling errors in Thai are particularly rare.

The present study aims to fill this gap by focusing on spelling errors made by Chinese students learning Thai as a foreign language. The impetus for studying Chinese L2 learners of Thai is twofold. The first reason for selecting Chinese students is that there is presently a "Thai craze" in China. As reported by CCTV (China Central Television), the number of the universities establishing a Thai language program has already reached over fifty by the year of 2017. Thai is becoming one of the most popular foreign languages among Chinese students, especially students from southwestern China. The second reason is that the Thai language has an alphabetic writing system, whereas Chinese characters represent units of meaning rather than units of sounds. Because of the great differences between the Chinese and Thai languages, spelling errors in Thai made by Chinese students were selected as the research subject.

2 Method

2.1 *Participants*

Participants of the present study were composed of thirty Chinese students (nine males and twenty-one females) who majored in Thai language at Xi'an International Studies University. Their age ranged from 20 to 22 years old. Chinese and their dialects were the dominant languages in their daily communication, and Thai was a foreign language for them. All of the students were roughly homogeneous in terms of Thai language exposure and educational backgrounds.

2.2 *Data Collection*

In order to collect spelling errors from the participants, two instruments were utilized. Firstly, the participants were requested to write a composition of

approximately 100–150 words in Thai within twenty minutes. The topic of the composition was “My country.” They were reminded not to use any fancy scripts¹ and try to make the composition clear and readable. Second, a sixty-word dictation task was conducted among the participants. Each word had a corresponding sentence to make its meaning clear. All the sentences were selected either from the Thailand National Corpus (TNC) or the Thai-English Electronic Dictionary Lexitron. All of the participants accomplished the two tasks independently and without any help from electronic devices during the writing tasks.

2.3 *Data Analysis*

All of the words that deviated from the spelling in the Royal Institute Dictionary (2011) were identified as spelling errors. Two dimensions were taken into consideration when classifying all the spelling errors. The first dimension was based on the phonological features of the Thai language: errors in vowel letters, initial consonant letters, final consonant letters, unpronounced letters, and tone markers. Another dimension was what happened to the misspelled letters, which was categorized into substitution, omission, and insertion (Ellis 1994: 56):

- 1) Substitution: selecting incorrect elements.
- 2) Omission: leaving out required elements.
- 3) Insertion: adding unnecessary elements.

Each word written by the participants was scrutinized for spelling errors. The frequency counting was based on tokens. Each error was recorded as one occurrence. For example, *<กงสุล> for <กงสุล> /kɔŋsǔn/ “consul” was counted as two occurrences. One was categorized into spelling errors in substitution of vowel letters because the speller substituted <ุ> /u:/ for <,> /u/, the other was classified into substitution of initial consonant letters because the speller substituted <ส> /s/ for <ศ> /s/. The same exact error was counted again as one occurrence. In other words, occurrences of errors were counted no matter whether they repeated or not. For example, eight students omitted <-ะ> /a/ in the word <สะดวก> /sàduak/ “convenient,” then eight occurrences were counted and classified into the type of omission of vowel letters.

1 The term “fancy scripts” in this paper refers to scribbled handwritings of some students. In practice, some students’ handwritings are too scribbled to read and it might cause problems in recognizing what they write in the study. Because of this, participants in this study were reminded not to use “fancy scripts” in their writing and were asked to make their handwriting as legible as possible.

3 Findings

3.1 *Patterns of Spelling Errors in Thai made by Chinese Students*

In total, 859 spelling errors were found. All of the spelling errors were first categorized into five types with respect to phonological features of Thai words namely: errors in vowel letters, initial consonant letters, final consonant letters, unpronounced letters, and tone markers. Ten misspelled words could not be grouped into the five categories, so they will be discussed separately. The frequency of occurrence of each pattern is shown in Table 1.

The findings reveal that the biggest difficulty for Chinese students is Thai vowel spelling. Initial consonants and final consonants seem to be equally difficult for them, which account for 20.7 percent and 20.4 percent respectively. Another 18 percent of the errors were grouped as errors in unpronounced letters. On the other hand, the errors regarding tone markers were much rarer (only about two percent).

Classified in another dimension, each pattern of errors mentioned in Table 1 was further divided into substitution, omission, insertion. Thus, the errors are labeled in the following sections as substitution, omission, and insertion reflecting how the misspelled words were written.

3.1.1 Spelling Errors in Vowel Letters

In total, 322 spelling errors were found in vowel letters, as shown in Table 2. A predominant percentage (79.5 percent) of the spelling errors falls into

TABLE 1 Patterns of spelling errors classified by phonological features

Patterns of spelling errors	Frequency	Percentage	Participants ²
Vowel letters	322	37.5%	30
Initial consonant letters	178	20.7%	30
Final consonant letters	175	20.4%	30
Unpronounced letters	155	18.0%	30
Tone markers	19	2.2%	11
Others	10	1.2%	10
total	859	100%	30

2 Participants mean the number of students who made spelling errors.

TABLE 2 Spelling errors in vowel letters classified by how vowel letters were misspelled

Patterns of spelling errors	Frequency	Percentage	Participants
Substitution	256	79.5%	30
Insertion	39	12.1%	20
Omission	27	8.4%	20
Total	322	100%	30

substitution. On the other hand, insertion and omission of vowel letters were also found among Chinese students but with a relatively smaller frequency.

Three types of the spelling errors related to substitution of vowels were found. Firstly, Chinese students substituted long for short vowels and vice versa, such as *<กงสุล> for <กงสุล> /kɔŋsǔn/ “consul” and *<ปีก> for <ปีก> /pì:k/ “wing.” Then, they also substituted one vowel letter with another representing a homophonic sound, such as *<หลงใหล> for <หลงใหล> /lɔŋlǎj/ “to be fascinated,” *<สัมพันธ์> for <สัมพันธ์> /sǎmpʰan/ “relations,” and *<กรรมไร> for <กำไร> /kamraj/ “profit.” Vowel letters with similar sounds were also misused, such as: *<ปรับปรอง> for <ปรับปรุง> /pràppruŋ/ “adjust,” *<งูเห่า> for <งูเห่า> /ŋu:hàu/ “cobra,” and *<แพร่หลาย> for <แพร่หลาย> /pʰrɛ:lǎj/ “extensively.” Moreover, insertion of vowel letters mainly occurred in vowels <-อ> /ɔ:/ and <-ะ> /a/. When these two vowels are pronounced but unwritten, Chinese students tended to insert them, such as *<คนะบดี> for <คนบดี> /kʰánábɔ:di:/ “dean” and *<ทอรมาน> for <ทรมาน> /tʰɔ:rámɑ:n/ “torture.” In addition, some Chinese students inserted <-า> /a:/ when there is an /a/ sound, such as *<กริกากุาคม> for <กริกากุาคม> /kàrákàda:kʰom/ “July,” which reflects that they are not sensitive to length of sounds. Finally, Chinese students also omitted vowel letters <-ะ> /a/ and <-า> /a:/ in some words, such as, *<สะดวกสบาย> for <สะดวกสบาย> /sàduaksàba:j/ “convenient” and *<สามัคคี> for <สามัคคี> /sǎ:mákkʰi:/ “harmony.”

3.1.2 Spelling Errors in Initial Consonant Letters

Chinese students made 178 spelling errors in initial consonant letters, including both errors in single initial consonant letters and initial consonant clusters. The substitution errors account for an absolute predominant percentage of all the errors. As for omission and insertion, they are much more infrequent, and only some scattered errors were recorded.

In terms of substitution of initial consonant letters, Chinese students were likely to substitute one initial consonant letter with another representing the

TABLE 3 Spelling errors in initial consonants letters classified by how initial consonant letters were misspelled

Patterns of spelling errors	Frequency	Percentage	Participants
Substitution	174	97.8%	29
Omission	3	1.7%	3
Insertion	1	0.5%	1
Total	178	100%	30

same sound, such as * <อนุมัติ> for <อนุมัติ> /ʔànúmát/ “approve” and * <เศร้าโศก> for <เศร้าโศก> /sâusò:k/ “depressed.” They also substituted voiceless for voiced initial consonants and vice versa, such as * <อดีต> for <อดีต> /ʔàdì:t/ “former” and * <ปัจจุบัน> for <ปัจจุบัน> /pàtɕùbən/ “present.” The substitution of <ร> /r/ for <ล> /l/ and vice versa were also seen, such as * <เรียนแบบ> for <เลียนแบบ> /lianbè:p/ “copy” and * <กำไร> for <กำไร> /kamraj/ “profit.” Then, they substituted low-class for high-class initial consonants and vice versa, such as * <ลำไส้> for <ลำไส้> /lamsâj/ “intestine” and * <สามัคคี> for <สามัคคี> /sǎ:mákkʰi:/ “harmony.” Finally, the substitution of <ล> /l/ for <น> /n/ was also seen, such as * <แน่นแฟ้น> for <แน่นแฟ้น> /nê:nfɛ:n/ “firmly.” A small number of omissions and insertions was also recorded. Three spelling errors were related to the omission of initial consonant letters: * <หลงใหล> and * <หลงใหล> for <หลงใหล> /lǒŋlǎj/ “to be fascinated,” in which the unpronounced leading consonant letter <ห> /h/ was omitted. Only one spelling error of insertion was found among initial consonant letters, which was * <สับประรด> for <สับประรด> /sàpàrót/ “pineapple.” In this case, the Chinese student inserted a <ร> /r/ in the second syllable of the word.

3.1.3 Spelling Errors in Final Consonant Letters

Spelling errors in final consonants are the third most spelling errors made by Chinese students. 175 spelling errors were found, which presents 20.4 percent of the total spelling errors. Most of the spelling errors in final consonants were substitution whereas the errors in insertion and omission are rarely seen.

The spelling errors in substitution of final consonant letters can be summarized into three groups: 1) substituting one final consonant letter with another representing a homophonic sound, such as * <โอกาส> for <โอกาส> /ʔo:kàt/ “chance” and * <รำคาญ> for <รำคาญ> /ramkʰa:n/ “to be annoyed”; 2) substituting one final consonant letter with another representing a similar sound, such

TABLE 4 Spelling errors in final consonant letters classified by how final consonant letters were misspelled

Patterns of spelling errors	Frequency	Percentage	Participants
Substitution	171	97.8%	30
Insertion	2	1.1%	2
Omission	2	1.1%	2
Total	175	100%	30

as *<ผูกพัน> for <ผูกพัน> /pʰùːkʰan/ “commit” and *<สิ่ง> for <สิ้น> /sîn/ “to be finished”; 3) other irregular substitution of final consonants, such as *<ผลิตภัณฑ์> for <ผลิตภัณฑ์> /pʰàlittàpʰan/ “product” and *<สะดวกสบาย> for <สะดวกสบาย> /sàdùaksàbaːj/ “convenient.” Two spelling errors were errors in the omission of final consonant letters, which are *<ประสบการณ์> for <ประสบการณ์> /pràsòpkaːn/ “experience” and *<แน่นแฟ้น> for <แน่นแฟ้น> /nêːnféːn/ “firmly.” In the two examples here, the front nasal final sound /n/ was omitted. Two insertion spelling errors in final consonant letters were made. The first was the insertion of <ง> /ŋ/ in the word <แต่> /tèː/ “but” and the second one is *<มาก> for <มา> /maː/ “come,” in which a <ก> /g/ was inserted in the correct word.

3.1.4 Spelling Errors in Unpronounced Letters

According to Table 5, over half of the spelling errors in unpronounced letters were omission. The spelling errors in substitution and insertion were nearly the same, which take up 25.8 percent and 23.9 percent respectively.

Omission of unpronounced letters can be allocated into three groups; namely, omitting unpronounced consonant letters with a sound-killing marker <’>, such as *<โทรทัศน์> for <โทรทัศน์> /tʰoːráthát/ “television”; omitting unpronounced consonant letters without a sound-killing marker, such as *<สามารถ> for <สามารถ> /sǎːmâːt/ “can”; and omitting unpronounced vowel letters, such as *<ประวัติ> for <ประวัติ> /pràwàt/ “history.” Substitution of unpronounced letters only appears in marked unpronounced consonant letters. Chinese students randomly chose another consonant letter to replace the right one, for example, *<ศัพท์>, *<ศัพท์>, and *<ศัพท์> for <ศัพท์> /sàp/ “vocabulary.” Insertion of unpronounced letters could be found in both marked unpronounced consonant letters and unpronounced vowel letters, for example, *<ผูกพัน> for <ผูกพัน> /pʰùːkʰan/ “commit” and *<สังเกต> for <สังเกต> /sǎŋkèːt/ “observe.”

TABLE 5 Spelling errors in unpronounced letters classified by how unpronounced letters were misspelled

Patterns of spelling errors	Frequency	Percentage	Participants
Omission	78	50.3%	26
Substitution	40	25.8%	25
Insertion	37	23.9%	25
Total	155	100%	30

TABLE 6 Spelling errors in tone markers classified by how tone markers were misspelled

Patterns of spelling errors	Frequency	Percentage	Participants
Insertion	9	47.4%	9
Omission	8	42.1%	7
Substitution	2	10.5%	2
Total	19	100%	11

3.1.5 Spelling Errors in Tone Markers

Nineteen spelling errors in tone markers were made by eleven Chinese students, which included: insertion, omission, and substitution, as can be seen in Table 6.

Including the low tone marker, falling tone markers, and rising tone marker, they were all inserted by Chinese students, such as *<เคร็ยด> for <เคร็ยด> /k^hriat/ “serious,” *<น้อก> for <นอก> /nô:k/ “outside,” and *<ต่อนนี> for <ตอนนี้> /tɔ:nní/ “now.” On the other hand, both the low and falling tone markers were omitted by Chinese students, such as *<อย่าง> for <อย่าง> /jà:ŋ/ “how” and *<ดั้งเดิม> for <ดั้งเดิม> /dâŋdɛ:m/ “traditional.” Finally, only two spelling errors are substitution of tone markers: *<กว้าง> for <กว้าง> /kwâŋ/ “widely” and *<แม่แท้> for <แม่แท้> /mètè/ “even.”

3.1.6 Other Spelling Errors

Another ten misspelled words were also found but they could not be grouped into the types presented above. Therefore, they are listed separately in Table 7.

TABLE 7 *Other spelling errors*

Misspelled words	Correct words	Meaning
*พาเชิญ, *พะเชิญ	เผชิญ /p ^h àtɕʰɯːn/	confront
*เสน่ห์	เสน่ห์ /sàɳèː/	charm
*เคย	เคย /kʰɯːj/	once
*วัฒนธรรม, *วัฒนธรรม	วัฒนธรรม /wát ^h ánát ^h am/	culture
*อยู่	อยู่ /jùː/	exist
*ก็	ก็ /kǎː/	also
*ศัพท์	ศัพท์ /sàp/	vocabulary
*เก็บ	เก็บ /kèp/	keep

3.2 *Causes of Spelling Errors in Thai made by Chinese Students*

There are five causes of spelling errors made by Chinese students: 1) irregularities in the Thai language; 2) interference from the Chinese phonological system; 3) carelessness in writing; 4) differences between the Chinese and Thai writing systems; 5) influences from native speakers of Thai.

3.2.1 Irregularities in the Thai Language

The first cause of the spelling errors made by Chinese students is the existence of irregularities in the Thai language. The biggest irregularity is that many sounds can be represented by several letters including: vowel letters, initial consonant letters, and final consonant letters. For example, in the vowel system, the /aj/ sound is represented by <๒-,>, <๒-,>, <๒>, and <๒-๒>; /an/ sound can be represented by <-รร> and <๒>; /am/ sound is corresponding to <-รร>, <๒> and <๒> (Thonglor 2012: 150–154). Many initial consonant sounds can also be represented by different letters, such as the high-class sound <s> has three letters to represent it, namely, <ศ>, <ษ>, and <ส>. Likewise, 33 consonant letters are employed to represent six final sounds,³ which means that one final sound is corresponding to several different letters, such as final sound <t> can be represented by sixteen different consonant letters. More than one graphic representation of sounds caused Chinese students to substitute vowels, initial consonants, final consonants with other letters representing a homophonic

3 As claimed by Danvivathana (1981: 192), there are six final consonants in Thai: three close final sounds /-k/, /-t/, /-p/ and three open final sounds /-ŋ/, /-n/, /-m/. The two diphthong endings /u/ and /j/ are not included here.

sound, such as: *<หลงไหล> for <หลงไหล> /lǒŋlǎj/ “to be fascinated,” *<ไพศาล> for <ไพศาล> /phǎjsǎ:n/ “vast,” and *<สังเกต> for <สังเกต> /sǎŋkèt/ “observe.”

Another obvious irregularity that caused spelling errors among Chinese students was the existence of unpronounced letters, which could either be unpronounced consonant letters under a sound-killing marker <̣> such as <ที่> in <ศัพท์> /sǎp/ “vocabulary,” or those without any marker such as <ร> in <สามารถ> /sǎ:mâ:t/ “can” and <ร> in <ธาตุ> /thât/ “element.” Those unpronounced letters caused Chinese students to omit necessary letters, substitute incorrect letters for correct ones, and insert redundant letters, such as: *<มอเตอร์ไซด์> for <มอเตอร์ไซด์> /mɔ:tɔ:saj/ “motorcycle,” *<ปรารถนา> for <ปรารถนา> /prà:ttʰànǎ:/ “desire,” or *<อนุญาต> for <อนุญาต> /ʔànújât/ “allow.”

Moreover, various initial consonant clusters in Thai also caused some spelling errors, including: substituting <ซ> /s/ for <ทร> /s/, such as *<ชาย> for <ทราย> /sa:j/ “sand,” omitting the silent leading consonant <ห> /h/, such as *<หลงไหล> for <หลงไหล> /lǒŋlǎj/ “to be fascinated,” inserting a redundant consonant letter to form a true cluster, such as *<สับประรด> for <สับประรด> /sàppàrót/ “pineapple,” or inserting an unnecessary vowel <-ะ> /a/ or <-อ> /ɔ:/ between two consonant letters, such as *<ปะเชิญ> for <เผชิญ> /phàtɕʰɛ:n/ “confront” and *<คนบอดี> for <คนบดี> /kʰánábɔ:di/ “dean.”

Other than the spelling errors made by Chinese students, they seemed to not be fully competent with the complex tone system of the Thai language. They inserted redundant tone markers, omitted necessary tone markers, or substituted tone markers with incorrect ones, such as *<แทรกแซง> for <แทรกแซง> /sê:kse:ŋ/ “intervene,” *<แลกเปลี่ยน> for <แลกเปลี่ยน> /lê:kplian/ “exchange,” or *<กว้าง> for <กว้าง> /kwâ:ŋ/ “widely.” Additionally, the ambiguity in tones also caused Chinese students to substitute low-class for high-class initial consonant letters and vice versa, such as *<ผูกพัน>, *<ผูกพัน> for <ผูกพัน> /pʰù:kpʰan/ “associate” and *<สามัคคี> for <สามัคคี> /sǎ:mákkʰi:/ “harmony.”

Since Thai vowels are not always written in the consonant-vowel linear order, some of them have to be put before initial consonants, such as <เ> /ɛ:/ and <ไ> /aj/, which are called “misaligned vowels” by Winskel (2009: 2). When vowels are put before an initial consonant, the order of spelling will be vowel + initial consonant + final consonant (if any); however, the order of pronunciation is still initial consonant + vowel + final consonant (if any). Therefore, a mismatch between spelling and pronunciation occurs. When misaligned vowels are spelled with initial consonant clusters, Chinese students tend to make spelling errors like *<เสน่ห์> for <เสน่ห์> /sànè:/ “charm” and *<ปะเชิญ> for <เผชิญ> /phàtɕʰɛ:n/ “confront.”

Finally, a Chinese student misspelled *<เคย> for <เคย> /kʰɛ:j/ “ever” due to the overgeneralization regarding the occurrence of the vowel /ɛ:/ with the final

consonant sounds in Thai; i.e., /p/, /t/, /k/, /m/, /n/, /ŋ/, such as <เกิด> /kʰɛ:t/ “happen,” <เกิน> /kʰɛ:n/ “far,” and <เลิก> /lʰɛ:k/ “stop.” However, he simply over-generalized such a rule to include cases like the two diphthong endings /u/ and /j/, for instance, <เลย> /kʰɔ:j/ “pass” and <ระเหย> /ráhɛ:j/ “evaporate,” where it does not apply. As one vowel letter has different forms when spelled with different final consonants, the error *<เคีย> can also be categorized into the errors caused by irregularities in the Thai language.

3.2.2 Interference from the Chinese Phonological System

Articulation and spelling are closely connected when spelling an alphabetic language, as the spelling of alphabetic languages is based very much on sounds. It has been proven that spelling errors can be traced back to errors in speech to some extent (Groff 1973; Bancha 2013; Grigonite and Hammarberg 2014).

Chinese and Thai differentiate greatly in terms of their phonological systems, which might cause misarticulation among Chinese students when speaking Thai. Firstly, Chinese students’ dialects also play an important role in their Thai spelling. For example, only the students who speak Southwestern Mandarin⁴ substituted <ถ> /l/ for <น> /n/, such as *<ชัยชนะ> for <ชัยชนะ> /tɕʰajtɕʰáná/ “victory.” It is because the /n/ sound and /l/ sound in Southwestern Mandarin do not distinguish semanteme (Sun 2011: 132). In other words, the people who speak Southwestern Mandarin the meaning of the words will not be different if the /n/ sound and /l/ sounds are interchanged. Therefore, they often confound these two sounds when speaking foreign languages, such as English and Thai. Only Chinese students who speak the Jin dialect⁵ made spelling errors in <เ> /ɛ:/, such as *<แสน> for <แสน> /sǎ:n/ “hundred thousand.” It is because there is no /a:n/ sound in Jin dialect and they tend to use /ɛ:n/ to replace it, which makes them have big problems in distinguishing /ɛ:n/ and /a:n/ when speaking other languages (Li 2006: 118). Only the Chinese students who speak the Jin dialect and Jilu Mandarin substituted the velar nasal final sound for the labiodental nasal final sound, such as *<กลิ่น> for <กลิ่น> /krìn/ “smell.” As stated by Zee (1985) and Hou (2015), people from the northern part of China generally have stronger velar nasal sounds in their dialects, especially among Jin dialect speakers, who do not have alveolar nasal sounds /n/ in their dialect at all, so they transfer these nasal sounds when speaking other languages, such as Mandarin Chinese and English.

4 Southwestern Mandarin is spoken by the people who live in southwestern part of China, it is the most widespread Chinese dialect.

5 Jin dialect is spread around the north of Shaanxi Province, most parts of Shanxi province, and the Mideast part of Inner Mongolia Autonomous Region.

Moreover, some differences between Chinese and Thai phonology also cause misarticulation among Chinese students, which further brought about some spelling errors. Firstly, there is no difference between voiced consonants and voiceless consonants in Chinese. As a result, they substituted voiced for voiceless consonants and vice versa, such as *<ปัจจุบัน> for <ปัจจุบัน> /pàtɕùban/ “present” or *<ปะหมี่> for <บะหมี่> /bàmi:/ “noodle.” They also substituted <ร> /r/ for <ล> /l/ and vice versa since there is no trill in Chinese phonology. Secondly, Chinese students have big problems in grasping the differences between long and short vowels accurately since there is no duration difference between Chinese vowels which caused them to make the errors such as *<ชีวิตชีวา> for <ชีวิตชีวา> /tɕʰi:wittɕʰi:wa:/ “life.” Moreover, the deviated pronunciation of Chinese students in Thai was also reflected in the six back vowel sounds: i.e., <ุ> /u:/ and <ู> /u/, <โ> /o:/ and <โ> /o/, <อ> /ɔ:/ and <อ> /ɔ/, <เ> /e:/ and <เ> /e/. There are only /u/ and /o/ used as back vowels in Chinese, whereas Thai has six. The misarticulation of Chinese students in pronouncing the six Thai back vowels made them commit a large number of spelling errors, such as *<กงสุล> for <กงสุล> /kon̄sɯn/ “consul,” *<มอเตอร์ไซ> for <มอเตอร์ไซด์> /mɔ:tɕsaj/ “motorcycle,” or *<ประสบการณ์> for <ประสบการณ์> /pràsòpka:n/ “experience.” Finally, the three word final stop consonant sounds /k/, /t/, and /p/, which do not exist in the Chinese phonological system, were also misused by Chinese students, such as *<เครียด> for <เครียด> /kʰriat/ “serious” and *<ปฏิเสธ> for <ปฏิเสธ> /pàtìsèt/ “refuse.”

3.2.3 Carelessness in Writing

In particular, the complicated Thai writing system calls for great attention otherwise spelling errors will be committed easily. A small number of spelling errors made by Chinese students were caused by students' carelessness. For example, in the word <วัฒนธรรม> /wátʰánátʰam/ “culture,” two kinds of wrong form were found: *<วัฒนธรรม> and *<วัฒนธรรม>. Actually, the student already spelled the word <วัฒนธรรม> correctly in the previous content. As a result of carelessness, they inserted and omitted a <ร> /r/. Carelessness also caused final consonant insertion. In the sentence: <เพราะผมมาจากประเทศจีน> /pʰrɔ̀pʰõmmâ:ktɕa:kpràtʰe:ttɕe:n/ “because I come from China,” the writer inserted a <ก> /k/ in the word <มา> /ma:/ “come.” The spelling error might be caused by carelessness since the word <มา> is a basic word and its meaning and pronunciation should not have any ambiguity for Chinese students. The only explanation for the error is that the writer made a slip of the pen when spelling. Likewise, errors like *<ผลิตภัณฑ์> for <ผลิตภัณฑ์> /pàlittàpʰan/ “product” or *<ประสบการณ์> for <ประสบการณ์> /pràsòpka:n/ “experience” could also be explained by carelessness in writing.

3.2.4 Differences Between the Chinese and Thai Writing System

Based on how spoken language is represented, writing systems of the world's languages can be classified into three types: 1) alphabetic languages, representing spoken language by letters; 2) syllabary writing systems, using syllables to represent spoken language; 3) logographic languages, choosing characters to represent spoken language (Wang, Koda, and Perfetti, 2003: 130). Based on this classification, the Thai language is an alphabetic language since its spelling is based on sounds; whereas Chinese is classified as a logographic writing system because Chinese selects characters to represent its spoken language. The great differences between the Chinese and Thai writing systems also caused some spelling errors among Chinese students.

At first, Chinese students made some errors which did not meet the basic orthographic rules in Thai. For example, in the misspelled word *<ศัพท์> for <ศัพท์> /sàp/ "vocabulary," the writer added a sound-killing marker in the final consonant of the word, which makes the misspelled word deviate dramatically from the basic structure of a Thai syllable. Another example is *<เก็บ> for <เก็บ> /kèp/ "keep." Obviously, the high tone marker <˥> and vowel shortening marker <˨> were mixed up by the writer, which also reflects that Chinese students are not fully competent to use various markers to present sounds.

3.2.5 Influences from Thai Native Speakers

As communication between Chinese students and Thai native speakers becomes more frequent, Chinese students have more opportunities to learn Thai from native speakers, especially from younger generation Thai speakers via the internet. Actually, some language habits and words used by young Thais are informal and only appear in their spoken language. However, Chinese students, as foreign language learners, do not have an adequate understanding of them.

Judging from this, spelling errors like *<ก็> for <ก็> /kî:/ "also" and *<อยู่> for <อยู่> /jù:/ "exist," can be attributed to influence from interaction with Thai native speakers. It is because Thai native speakers reduce some words for convenience but only use them in informal occasions, such as chatting with friends or posting content on social applications. Some Chinese students tend to imitate this way of spelling words because it is regarded as being native.

To summarize, among the five causes mentioned above, irregularities in the Thai language caused the most spelling errors, more than sixty percent of the spelling errors can be traced back to incompetence among Chinese students when confronted with various irregularities in the Thai language, as shown in

TABLE 8 *Causes of spelling errors made by Chinese students*

Causes	Frequency	Percentage
Irregularities in the Thai language	525	61.1%
Interference from the Chinese phonological system	324	37.8%
Carelessness in writing	5	0.6%
Differences between the Chinese and Thai writing system	3	0.3%
Influence from Thai native speakers	2	0.2%
Total	859	100

Table 8. Interference from the Chinese phonological system caused the second most spelling errors, accounting for 37.8 percent of the spelling errors. Apart from that, carelessness in writing, differences between the Chinese and Thai writing system, and influences from native speakers were also taken into account since these factors also brought about some scattered errors among Chinese students.

4 **Conclusion**

The current paper sheds light on spelling errors in Thai made by Chinese students speaking Thai as a foreign language. A composition writing and dictation task were conducted among thirty Chinese students who majored in Thai. In total, 859 spelling errors were found. According to the findings, Chinese students made the most spelling errors in writing vowel letters (37.5%), then initial consonant letters (20.7%), final consonant letters (20.4%), unpronounced letters (18.0%), tone markers (2.2%), and others (1.2%) respectively. In terms of causes of spelling errors, various irregularities in the Thai language caused more than half of the spelling errors, including multiple graphic representations of sounds, unpronounced letters, consonant clusters, and etc. Additionally, interference from the Chinese phonological system was another main cause of spelling errors, which brought about 37.8 percent of the errors found. Both students' dialects, and some differences between both the Chinese and Thai phonological systems were transferred by Chinese students when spelling Thai. Apart from that, the carelessness of students, differences between the Chinese and Thai writing systems, and influence from native speakers of Thai,

were also sources of errors that should be taken into consideration, because some scattered errors could be traced back to them.

5 Pedagogical Implications

The findings of the present study also provide some pedagogical implications. First, spelling errors should be viewed in a more positive way rather than simply being treated as slips of the pen. As an important feedback of learning, spelling errors should be identified and explained in order to find out the best way to correct and avoid them. Secondly, irregularities in the Thai language should be realized and emphasized in the process of learning Thai. More understanding of the properties of Thai can help Thai language learners improve their spelling skills effectively. Thirdly, many spelling errors are related to pronunciation. Clear pronunciation reflects speakers' high levels of proficiency in learning a foreign language. On the contrary, misarticulation not only affects the image of speakers, but is also a potential factor that might cause spelling errors.

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