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漢語「而」的二語習得：一個基於語料庫的研究

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## SECOND LANGUAGE ACQUISITION OF CHINESE CONJUNCTION *ER* ('AND'): A CORPUS-BASED STUDY\*

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### ABSTRACT

This study investigates L2 learners' acquisition of the conjunction *er* in Chinese and their general performance in conjoining clauses within a four-tier categorization of *er*. Our findings show that at the initial stage, learners tend to use *er* to connect clauses that involve a subordination relation. The preponderance of this use of *er* by intermediate learners is in sharp contrast with the finding that native speakers use more *er*'s to conjoin sentences/paragraphs instead. Equally remarkable is the progress that learners made from conjoining at an intra-sentence level to an inter-sentence level, showing a developmental pattern in interlanguage. Finally, non-target errors are found to be largely due to an under-differentiation of the syntactic and semantic requirements of different conjuncts.

Key words: Chinese conjunction, *er*, second language acquisition, corpus

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## 1. INTRODUCTION

*Er* ('and') is generally taken to be a conjunction and is used frequently in modern Chinese. In the *Academia Sinica Balanced Corpus of Modern Chinese (Corpus-ASB)*, a corpus which contains about 8 million characters of spoken and written Chinese data across different registers and genres, *er* ranks the 17th highest (0.376%) in frequency. More remarkably, it is the only conjunction in the top 20. Despite its high frequency, the conjunction *er* has puzzled Chinese linguists for its simplicity in conjoining seemingly unrestricted clauses as well as its complexity in marking diverse semantic relations (cf. Wang 1989, Guo 2003, Chen 1994).

Without giving specific examples for the time being, we would like to point out that *er* shares similar linguistic features with the English coordinator *and*, though the two do not always behave in the same way. Semantically, interclausal semantic relations revealed by *er* can also be pure addition, contrast, cause-effect and so on, just like *and* in English (cf. Quirk et al. 1985, Liu et al. 1996, Lü 1999). Syntactically, *er* links adjective phrases, clauses and sentences/paragraphs, but not bare verbs or noun phrases, unlike *and*.

While *and* in English has been studied extensively (e.g. Ross 1967, Culicover & Jackendoff 1997, Progovac 1998, Schiffrin 1987, Schmidt 1980, Carston 1993, Dorgeloh 2004, etc.), Chinese *er*, by contrast, has received far less attention both in the analysis of its use and in second language acquisition (SLA). For its use, three analyses of *er* including Liu et al. (1996), Lü (1999) and Hong (2008) are reviewed in Section 2. As we will see, the classifications in these analyses fail to lay a clear basis for the analysis of *er* in a learner corpus. A finer-grained categorization is needed.

In SLA, there are two recent studies of *er*. In the first one, Li (2009) investigates various types of Chinese conjunctions used by L2 learners and their corresponding errors using a corpus-driven approach. One of the findings shows that *er* is misused quite frequently among coordinative conjunctions. In the second study, Zhang (2010) points out

that learners may overgeneralize *er* to conjoin grammatical categories that are not allowed by native speakers (i.e. bare verbs or noun phrase<sup>1</sup>). More specifically, both studies show that in some cases *er* should be replaced by *erqie* ('and', 'furthermore'), as in (1) (example from Li (2009: 42)):<sup>2</sup>

- (1) \*我欣賞這個人物，也同情他沒有經歷過小時候的快樂，  
而歷經了風雨，吃了很多苦。
- Wo xinshang zhe ge renwu, ye tongqing ta  
I admire this CL person also sympathize he  
meiyou jingli-guo xiaoshihou de kuaile,  
not:have experience-ASP childhood DE happiness  
*er* lijing-le fengyu, chi-le hen duo ku.  
ER experience-ASP ordeal eat-ASP very much bitter
- 'I admire him for his character and also sympathize with him in that he has not experienced happiness in childhood but suffered a lot from his ordeal.'

These two SLA studies, however, do not give a systematic analysis of non-targeted errors, nor do they provide information about learners' use of *er* in general. Our study thus aims to give a finer-grained categorization of *er* and investigate the development of *er* in a learner corpus.

This paper is organized as follows. In Section 2, three different studies of Chinese *er* are reviewed, followed by our own categorization, which includes *er* as a subordinator, as a complementizer, as a coordinator and as a discourse marker, represented as  $er^S$ ,  $er^{Comp}$ ,  $er^C$  and  $er^D$  respectively. Following that, we address current research questions

<sup>1</sup> To conjoin two noun phrases, Chinese has the conjunction *he* 'and'. In fact, Chinese has a rich set of coordinative devices and some of them may be syntactically overlapped in taking the same word category (e.g. Chinese *he* can conjoin verb phrases as *erqie* does under certain circumstances), rendering the acquisition difficult for learners (cf. Wu 2005, Tsai 2006, Chen 2007).

<sup>2</sup> Abbreviations used in this paper are: ASP (aspect marker), BE (copular verb), CL (classifier or measure word), COMP (complement), DE (marker for genitive phrases or relative clauses), and PTC (particle).

(Section 3) and methods applied in this study (Section 4). In the data analysis in Section 5, learners' correct uses of *er* are compared with native speakers' and their erroneous uses are sorted and exemplified. Finally, in Section 6, based on learners' data, we discuss issues pertaining to (1) learners' general usage of *er*, (2) difference in choosing *er* or *erqie* under a given semantic category (i.e. pure additive relation), (3) semantic requirements which are crucial in using *er*<sup>S</sup> and *er*<sup>Comp</sup>, and (4) related pedagogical implications for Chinese *er*. Finally, Section 7 concludes this paper.

## 2. ANALYSIS OF *ER*

Before the discussion of the conjunction *er*, it should be noted that we follow Chu's (2006) working definition of a Chinese clause/sentence: a Chinese clause contains at least one predicate, which is typically a verb phrase or an adjective phrase, though it may also be a noun phrase; a Chinese sentence comprises at least one clause or a block of clauses which are connected via explicit markers like conjunctions and adverbs, or by a topic chain (cf. Chu 2006: 270-290). For the study of our conjunction *er*, a clause is treated as the basic conjunct unit.

In this section, previous categorizations of Chinese *er* by Liu et al. (1996), Lü (1999) and Hong (2008) are reviewed and then followed by our categorization.

### 2.1 Previous Categorizations of *Er*

As mentioned above, *er* is used to conjoin adjective phrases, clauses and sentences/paragraphs, though not bare verbs (e.g. (2)) or noun phrases (e.g. (3)).

- (2) \*張三買而看了一本書。  
 Zhangsan mai *er* kan-le yi ben shu.  
 Zhangsan buy ER read-ASP one CL book  
 'Zhangsan bought and read a book.'

- (3) \*張三買了一個蛋糕而一束花。  
 Zhangsan mai-le yi ge dangao *er*  
 Zhangsan buy-ASP one CL cake ER  
 yi-shu hua.  
 one-CL flower  
 'Zhangsan bought a cake and a bunch of flowers.'

In terms of the semantic relation between the two conjuncts of *er*, Liu et al. (1996) and Lü (1999) agree that *er* mainly marks **juxtaposition** (e.g. (4)), **continuation** (e.g. (5)) and an **adversative** relation (e.g. (6)), or it can pair with a preposition or conjunction (e.g. *yinwei* 'because') to indicate reason, cause, method, etc. (e.g. (7)), which will be called a 'correlative construction' henceforward. The following examples are taken from Lü (1999: 192-194)<sup>3</sup>.

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<sup>3</sup> In fact, Lü also lists two marked usages of *er*: (1) a conjunction of NPs (e.g. *you-chun-er-xia* 'from spring to summer') and (2) a conjunction of NP and VP (e.g. *Zuojia er bu xiezu*, *cheng-bu-shang zuojia* 'A writer who does not write cannot be called a writer.'). which is a non-typical usage of adversative. However, considering the fact that these usages are rarely introduced in textbooks for second language learners, we will not include them in our discussion.

(4) **Binglie (Juxtaposition)**

文筆簡練而生動。

Wenbi jianlian *er* shengdong.

writing concise ER lively

‘(One’s) writing is concise and lively.’

(5) **Dijin (Continuation)**

各組都取得了良好的成績，而以第三組的成績最為突出。

Ge zu dou qude-le lianghao de chengji, *er*

each group all get-ASP excellent DE scores ER

yi di-san zu de chengji zui weituchu.

by the:third group DE score most BE prominent

‘Each group has gained great scores, and the third group outperformed all others.’

(6) **Zhuanzhe (Adversative)**

幼苗早管理，費力小而收效大。

Youmiao zao guanli, feili xiao *er* shouxiao da.

sprout early take:care effort smaller yield great

‘Take care of the seeding as early as you can; efforts to be made are less but the yield is great.’

(7) **Introducing clauses or phrases preceding the main verb, marking reason, cause, method, etc. (Correlative construction)**

我們絕不能因為取得了一些成績而驕傲自滿起來。

Women juebu neng *yinwei* qude-le yixie

we by:no:means can because get-ASP a:little

chengji *er* jiaoziman-qilai.

score ER arrogant:conceited-ASP

‘We should by no means be arrogant and conceited for the little progress we made.’

The two studies, however, diverge in the classification of a specific usage of *er*, that is, a conjoining of an affirmative and a negative phrase or clause in form (Liu et al. 1996: 176 and Lü 1999: 192), which will be labeled as ‘antithesis’ in this study. For example,

(8) **Antithesis**

我喜歡住在台北，而不喜歡住在高雄。

Wo xihuan zhu zai Taibei *er* bu xihuan

I like live in Taipei ER not like

zhu zai Gaoxiong.

live in Kaohsiung

‘I like to live in Taipei, but don’t like to live in Kaohsiung.’

For Lü, an example like (8) is adversative, while for Liu et al., it is juxtaposition. Yet, a similar example which involves an affirmative phrase and a negative one, i.e. *Zhe zhang hua de secai yan er bu su* ‘The color of this painting is gay ER not gaudy,’ is categorized as adversative in Liu et al. (2003: 196). Obviously, clearer criteria for different categories will be needed.

Now consider Hong’s (2008) analysis. Unlike Liu et al. (1996) and Lü (1999), who characterize *er* from a semantic perspective, Hong (2008) first categorizes the use of *er* based on its syntactic function (**adverb** and **conjunction**) and then subcategorizes the conjunction category based on Halliday’s (1994) semantic relations between English clauses (or clause complexes). Furthermore, Hong (2008) points out that *er* can be used as a discourse marker, conjoining several clauses. Returning to the examples in (4)-(8) above, *er* in (4)-(6) and (8) is a conjunction, while *er* in (7) is an adverb. For the use of *er* as a discourse marker, please see Appendix 1.

Under the conjunction category, Hong decomposes semantic relations between conjuncts of *er*’s into ‘dissimilar additive’, ‘similar additive’ and ‘adversative’. See Table 1 below (examples and descriptions taken from Hong (2008: 60)).



Table 1. Subcategorizations of the conjunction *Er* in Hong (2008)

Subcategories	Descriptions and examples
Er <sub>1</sub> : Dissimilar additive	<p><b>Er<sub>1.1</sub>: <i>Liang ju duili</i> (antithesis)</b>                      老王是老師而不是學生。                      Laowang shi laoshi <i>er</i> bu shi xuesheng.                      Laowang BE teacher ER not BE student                      ‘Laowang is a teacher; he is not a student.’</p>
	<p><b>Er<sub>1.2</sub>: <i>Shijian jie yi</i> (two different events)</b>                      老王已有了妻子，而老張還是單身。                      Laowang yi you qizi <i>er</i> Laozhang                      Laowang already have wife ER Laozhang                      hai shi danshen.                      still BE single                      ‘Laowang already has a wife, while Laozhang is still single.’</p>
Er <sub>2</sub> : Adversative	<p><b><i>Yu yuqi xiang zuo</i> (counter-to-expectation)</b>                      老王在老家已有了妻子，而老張卻還一直幫他介紹對象。                      Laowang zai laojia yi you qizi                      Laowang at hometown already have wife  <i>er</i> Laozhang que hai yizhi bang ta                      ER Laozhang instead still always help he                      jieshao duixiang.                      introduce mate                      ‘Laowang already has a wife back home, but Laozhang keeps introducing a mate to him.’</p>
Er <sub>3</sub> : Similar additive	<p><b><i>Liang shi xiangsi</i> (two similar events)</b>                      老王已有了妻子，而老張也結了婚。                      Laowang yi you qizi <i>er</i> Laozhang ye                      Laowang already have wife ER Laozhang also                      jie-le-hun.                      marry-ASP-marry                      ‘Laowang already has a wife, and Laozhang has married, too.’</p>

Crucially, within the conjunction category, Hong takes the addition of an event to be *er*'s central function, which may introduce a similar event (similar additive), a different event (dissimilar additive) or an event that is counter-to-expectation (adversative). This approach gives a finer categorization, compared to two previous studies. However, the line between the adversative *er* and the dissimilar additive *er* may not be as clear as Hong assumes; context may play a dominant role. We will come back to the distinctions of the three subcategories in the next section.

In this paper, we will adopt Hong's classification, primarily in treating *er* as an adverb, a conjunction and a discourse marker, and propose a revised categorization of *er* with elaborated semantic subcategories that are more applicable in sorting learners' data.

## 2.2 Our Categorizations of *Er*

Building on Hong's three-tier system of *er*'s, we categorize *er* into four major groups: a subordinator ( $er^S$ ), a complementizer ( $er^{Comp}$ ), a coordinator ( $er^C$ ) and a discourse marker ( $er^D$ ). Furthermore, for a better understanding of the use of *er*, we extracted 500 randomized instances from a native speakers' corpus (i.e. *Corpus-ASB*).

### 2.2.1 Subcategories of $er^S$

In the  $er^S$  category, various semantic relations are brought into reality via the use of *er* as well as a preposition/conjunction, which will be called a **correlator**. Two clauses are in effect in a subordinate-main clause relation. In an unmarked structure, there is only one overt subject on the surface form, usually in the first clause.<sup>4</sup> Given the fact that

<sup>4</sup> In some cases, a different subject may be used:

- (i) 他因為他太太太傷心而吃不下飯。  
 Ta *yinwei* ta taitai tai shangxin *er* chibuxia fan.  
 he because he wife too sad ER can:not:eat food  
 'Because his wife was very sad, he couldn't eat anything.'

previous studies fall short in giving a definite set of correlators or indicating their frequencies, we studied the 500 randomized instances extracted from *Corpus-ASB* and identified 106 correlators (See Appendix 2), which were further subcategorized into three major groups: **cause**, **reason** and **peripheral** (includes method/manner/contingency), as illustrated in (9) to (11) respectively:

(9) **Cause**

他因為太傷心而吃不下飯。

Ta *yinwei* tai shangxin *er* chibuxia fan.

he because too sad ER can:not:eat food

‘Because he was very sad, he couldn’t eat anything.’

(10) **Reason**

他為了養家而同時做了兩份工作。

Ta *weile* yangjia *er* tongshi zuo-le

he in:order:to raise:family ER simultaneous do-ASP

liang fen gongzuo.

two CL work

‘In order to raise the family, he has to do two jobs simultaneously.’

(11) **Peripheral (e.g. method)**

他經別人的介紹而認識了李小姐。

Ta *jin* bieren de jieshao *er* renshi-le

he via other:people DE introduction ER know-ASP

Li xiaojie.

Li Ms.

‘He got to know Ms. Li via other people’s introduction.’

## 2.2.2 Subcategories of *er*<sup>Comp</sup>

What is common in *er*<sup>S</sup> shown above is that there exists an overt correlator (i.e. *yinwei*, *weile*, *jing*) in the first clause. However, *er* can also occur without an overt correlator and work as a complementizer. The second clause is usually headed by or can be supplemented with a light verb such as *lai* ‘come’ or *qu* ‘go’, or a causative verb such as *rang*

'make'. The semantic realization between the main clause and the complement is labeled here as **purpose** (e.g. (12)):

(12) **Purpose**

他希望能贏得金牌而讓父母感到驕傲。

Ta	xiwang	neng	yingde	jinpai	<i>er</i>	rang
he	wish	can	win	gold:medal	ER	make
fumu	gandao	jiao'ao.				
parents	feel	proud				

'He wishes he can win a gold medal to make his parents feel proud.'

Similar to  $er^S$ , there is usually one overt subject dominating the predicate in each clause within a single complex event. The clause complex can be sequentially decomposed to a clause with background information, followed by another profiled as a foreground (cf. Hsueh 1991). For this reason, though the two clauses in (12) are seemingly two related events being added, the latter is actually more 'weighted' than the former. That is, his wish to win a gold medal is for the purpose of making his parents proud of him. Diachronically, the purpose *er* and  $er^S$  may have developed from *er* being a central coordinator for almost all syntactic categories to an adverbial marker or a complementizer undergoing 'Conjunctive Reduction' process (Mei 2002, Tsai 2008).

### 2.2.3 Subcategories of $er^C$

Clauses conjoined by  $er^C$  are independent of each other in a loosely-tied relation, which coincides with the features of *accidental coordination* (cf. Dalrymple & Nikolaeva 2006). The clause complex in accidental coordination is assumed to be rephrasable by adding certain adverbs in the second clause such as *ye* 'similarly' or *que* 'however'. Crucially, these sentential adverbs may facilitate the clause complex to profile just one semantic relation when there are ambiguities; without them,  $er^C$  may have two readings at the same time (cf. Li 2012).

Basically, we assume the fundamental functions of  $er^C$  to be **additive** ( $er^{C-A}$ ) and **contrastive** ( $er^{C-C}$ ) (cf. Qiu 2005, Yan 2009). The former corresponds to Hong's (2008) similar additive, while the latter,

dissimilar additive and adversative. In the rest of this subsection, we give some typical instances to illustrate how we distinguish different semantic relations under  $er^{C-A}$  and  $er^{C-C}$  respectively.

### 2.2.3.1 Semantic relations in $er^{C-A}$

$Er^{C-A}$  adds one event to another for a **pure additive** relation such as ‘buying a house’ and ‘buying a car’ in (13); crucially, the additive adverb *ye* ‘also’ here is indispensable. On the other hand, the **continuation** *er*, which can conjoin two clauses without the gluing of an adverb, extends the given proposition via connecting two topics such as ‘twelve months’ and ‘February’ in (14) (topics here are understood semantically).

(13) **Pure additive**

張三買了房子，**而**也買了車子。

Zhangsan mai-le fangzi **er** ye mai-le chezi.

Zhangsan buy-ASP house ER also buy-ASP car

'Zhangsan bought a house and he also bought a car.'<sup>5</sup>

(14) **Continuation**

一年有十二個月，**而**二月有二十八天。

Yi nian you shi'er ge yue, **er**

one year have twelve CL month ER

eryue you ershiba tian

February have 28 day

'There are twelve months in a year and 28 days in February.'

2.2.3.2 Semantic relations in *er*<sup>C-C</sup>

The second major subcategory in *er*<sup>C</sup> introduces a contrastive relation. By 'contrastive', we follow Mann & Thompson (1992: 37) in defining it as a relation: (a) comprehended to be the same in many respects, (b) comprehended as differing in a few respects, and (c) compared with respect to one or more of these differences'. Finally, we include in our *er*<sup>C-C</sup> the semantic relations of **neutral contrast** (e.g. (15)), **antithesis** (e.g. (8), repeated here as (16)) and **adversative** (e.g. (17)).

<sup>5</sup> One of the reviewers noted that this sentence was unacceptable even with the occurrence of the adverb *ye*. We did, however, find some similar instances in *Corpus-ASB*. Here is one of them:

(ii) 各國在科學的基礎下，各有所長，**而**也互相交流...

Ge guo zai kexue de jichu xia, ge you

each country at science DE basis under each have

suo chang **er** **ye** huxiang jiaoliu...

PTC forte ER also mutually exchange

'On basis of science, each country has its own forte and they also exchange (ideas) with each other...'

For the simplicity of demonstrating each subcategory, we will keep the original example.

(15) **Neutral contrast**

台北冬天很冷，而高雄夏天很溫暖。

Taipei dongtian hen leng *er* Gaoxiong dongtian

Taipei winter very cold ER Kaohsiung winter

hen wennuan

very warm

'In winter, it is cold in Taipei and warm in Kaohsiung.'

(16) **Antithesis**

我喜歡住在台北，而不喜歡住在高雄。

Wo xihuan zhu zai Taipei *er* bu xihuan

I like live in Taipei ER not like

zhu zai Gaoxiong.

live in Kaohsiung

'I like to live in Taipei, but don't like to live in Kaohsiung.'

(17) **Adversative**

張三很喜歡小孩，而他太太卻跟他相反。

Zhangsan hen xihuan xiaohai *er* ta taitai

Zhangsan very like children ER he wife

que gen ta xiangfan.

however with he opposite

'Zhangsan likes children very much but his wife is the opposite of him.'

What *er* contrasts can be two events with two different subjects as 'Taipei' and 'Kaohsiung' in (15), and the reading is no more than a pure comparison; *er* can also contrast the actions done or states possessed by the same subject, usually by contrasting polarity items such as 'like' and 'dislike' in (16). Furthermore, *er*<sup>C-C</sup> can even express surprise or something unexpected. What is contrasted in (17) is 'Zhangsan's fondness of children' and 'Zhangsan's wife's dislike of children' with the baseline expectation that 'his wife likes children too'. Note that the

adverb *que* ('however') in (17) is especially crucial in yielding the adversative reading; alternatively, the context will play a dominant role, provided the information concerning the same shared expectation is explicitly given.<sup>6</sup>

One can see that there is an increasing degree of contrastiveness from (15) to (17), and the availability of the adversative reading depends either on the help of adverbs, or on the extent the interlocutors hold the same assumption in mind. In sorting our learners' data, we thereby turn to polarity items, adverbs and the context within this subcategory.

#### 2.2.4 Subcategorization of *er*<sup>D</sup>

What has been addressed so far is conjoining at the clause level. Larger units can be combined by *er*, too. For *er*<sup>D</sup>, a clause complex as a whole or a paragraph becomes the basic discourse unit. Unlike the less formal use of *and* in English academic writing (Dorgeloh 2004), *er*<sup>D</sup> is prevalent in formal Chinese writing or in formal speech. The discourse function of *er*<sup>D</sup> is akin to the Japanese continuative conjunction *ga*, which suggests inferences between two discourse units, assigning an interpretation that is relevant to a given context (Fukushima 2005)<sup>7</sup>.

<sup>6</sup> Sentences without an adverb or a reasonably given context can be ambiguous in between adversative and neutral contrast reading. For example, if the adverb *zhi* 'only', which contributes to the adversative reading in this case, is removed, a neutral contrast of promotions between two people is also plausible.

- (iii) 張三升了經理，而李四只升了組長。  
 Zhangsan sheng-le jingli *er* Lisi *zhi*  
 Zhangsan promote-ASP manager ER Lisi only  
 sheng-le zuzhang.  
 promote-ASP section:chief  
 'Zhangsan was promoted to the position of a manager but Lisi only to a section chief.'

In the actual counting in this study, when neither the adverb signaling adversative existed nor the context showed any sense of counter-to-expectation, the use of *er* was categorized as neutral contrast.

<sup>7</sup> The conjunction *er*, in accordance with most other languages, is derived from an older



Serving as a link to a previous discourse categories unit in an abstract manner, *er*<sup>D</sup> can be subsumed under **contrastive** and **continuation**. Similarly, one can also find either the context or adverbs/adverbial phrases helpful in distinguishing these two subcategories. While *ling-yi-fangmian* ‘on the other hand’ signals a contrastive relation, *geng-jin-yi-bu* ‘furthermore’ signals a relation of continuation. Below is an example of *er*<sup>D</sup> for a continuation reading; for a contrastive example, please see Appendix 1.

(18) *er*<sup>D</sup>: continuation

張三在北京碰到了暴風雪，所以回不了家。而他的家人因為聯絡不到他，他們都很擔心。

Zhangsan zai Beijing pengdao-le baofengxue,  
 Zhangsan be Beijing encounter-ASP blizzard  
 suoyi huibuliao jia Er ta de  
 so can:not:return home ER he DE  
 jiaren yinwei lianlubudao ta, tamen  
 family:member because can:not:contact he, they  
 dou hen danxin.  
 all very worried

‘Zhangsan encountered a blizzard in Beijing and he couldn’t go home **and** because Zhangsan’s family couldn’t contact him, they felt very worried.’

### 2.2.5 Summary

Our categorization of *er*’s for sorting learners’ data is summarized in Table 2:

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usage as a demonstrative pronoun (cf. Lan 1990, Ramat & Mauri 2011). When it functions as a discourse marker, it is arguably thought to be used to connect two discourse units by a referential linking (cf. Blühdorn 2008).

Table 2. Categorization of *er* for learner language analysis

<b>Categorization</b>	<b>Semantic Relations</b>		<b>Examples</b>
<i>er</i> <sup>S</sup>	/	cause	(9)
		reason	(10)
		peripheral	(11)
<i>er</i> <sup>Comp</sup>		purpose	(12)
<i>er</i> <sup>C</sup>	<i>er</i> <sup>C-A</sup>	pure additive	(13)
		continuation	(14)
	<i>er</i> <sup>C-C</sup>	neutral contrast	(15)
		antithesis	(16)
		adversative	(17)
	<i>er</i> <sup>D</sup>	/	continuation
contrastive			Appendix 1

### 3. RESEARCH QUESTIONS

Our study investigates how L2 learners combine different types of clauses in a grammatical and coherent manner via *er*. Binding two clauses together is undoubtedly more demanding due to the fact that the combination of clause types has to be legitimate for a given syntactic and semantic structure. Three research questions are addressed as follows:

- (1) How do learners exploit *er* to conjoin conjuncts of different linguistic units? Do they show any preference to using *er* for specific semantic categories in comparison with native speakers?
- (2) What error types can be identified and categorized in our learner corpus? Can the *er/erqie* problem also be found? And to what extent can these two be differentiated by learners?
- (3) How can learners' correct and erroneous uses of *ers* tell us about the restriction of its usage and related pedagogical implications?

### 4. METHODOLOGY

This study adopts a corpus-based approach (cf. Ellis & Markhuizen 2005, Gries 2008), comparing the data from a learner corpus and those from the *Academia Sinica Balanced Corpus of Modern Chinese (Corpus-ASB)*. The learner corpus we used is *Learner Corpus - Test of Chinese as a Foreign Language (Learner Corpus - TOCFL)*, which was established by the Mandarin Training Center of National Taiwan Normal University in July 2010. By June 2011, 3,128 pieces of written texts with 1,002,710 Chinese characters had been collected mostly from the computer-based exam TOCFL (The Test of Chinese as a Foreign Language) (Zhang 2012). What deserves to be mentioned is that the stratification of language proficiency in *TOCFL* is based on the *Common European Framework of Reference (CEFR)*, including levels A2, B1, B2

and C1.<sup>8</sup> Each examinee may choose to take part in the exam of a specific level and only the data of those who passed the level by scoring 3 points or above on a 0-5 point scoring scale were taken into consideration in this study.

As for the makeup of the examinees' first languages, the examinees whose L1s are Japanese (25%), English (17%), Korean (13%), Indonesian (11%) and Vietnamese (7%) account for most of the data. Besides, the amount of data collected in each proficiency level is not evenly distributed, that is, B1 has the most data (53.64%), followed by B2 (20.24%), A2 (16.84%) and C1 (9.28%).

Given the fact that the conjunction *er* is taught at a relatively late stage as evidenced in the textbooks used at the Mandarin Training Center<sup>9</sup>, we only concentrate on the B1, B2 and C1 data, without including those from A2. For comparison, 500 instances of *er* were extracted from *Corpus-ASB*. The functions of *er* along with their frequencies are identified and sorted; the general distribution of different uses by learners or native speakers can then be characterized.

In addition, learners' data are also compared and analyzed for errors or unconventional uses. To establish a criterion for errors, we follow Lennon's (1991) definition of an error, which is: '*...a linguistic form or combination of forms which, in the same context and under similar conditions of production, would, in all likelihood, not be produced by the speakers' native speaker counterparts*' (Lennon 1991: 182). On top of this, we took into consideration the comprehension end by rephrasing the definition as follows:

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<sup>8</sup> The proficiency levels used in *TOCFL* are based on the classification of the *Common European Framework of Reference (CEFR)*, in which the beginner level corresponds to A2, basic to B1, intermediate to B2 and advanced to C1; those who want to pass the exam will have to score 3 points as the minimum on a 0-5 point scoring scale. *TOCFL* is conducted via computer under timed conditions. Typos pertaining to homophones are excluded in our analysis.

<sup>9</sup> *Er* first appears in Book 4 Lesson 3 (B4L3) in *Practical Audio-Visual Chinese 2<sup>nd</sup> edition* (2011), B2L14 in *Integrated Chinese* (2006) and B4L39 in *New Practical Chinese Reader* (2004).

A linguistic form or combination of forms which, under any condition, would not be processed smoothly for the subsequent discourse unit, and block the immediate comprehension by a native speaker.

Therefore, errors of *er*'s in this study are identified in a more stringent way. In cases where learners' uses of *er* were at the borderline of acceptability, we further resorted to three native-speaker Chinese teachers for a re-examination according to the error definition indicated above.

## 5. RESULTS

There were, in total, 518 concordances of *er* in the learner corpus-TOCFL after 40 instances of typos and those used in idiomatic expressions (e.g. *zong-er-yan-zhi* 'generally speaking') were filtered out. Among them, 441 were judged to be correct uses, with the remaining 77 being somehow deemed non-target like or inappropriate. In this section, the frequency distribution of each subcategory of *er* in the two corpora is given and the error types are categorized and exemplified.

### 5.1 Frequency Distribution of *Er*'s in L1 and L2 Corpora

Frequencies of the four main categories of *er* used by non-native speakers (or NNS) and native speakers (or NS) are given in Table 3.<sup>10</sup> Interestingly, while *er*<sup>S</sup> is found to be used as often as *er*<sup>C</sup> by learners (i.e. 42.3% vs. 43.2%), the counterparts in NS data exhibit a predominant use of *er*<sup>C</sup> over *er*<sup>S</sup> (i.e. 50.4% vs. 21.2%). Moreover, native speakers strike a balance between *er*<sup>S</sup> (21.2 %) and *er*<sup>D</sup> (22.8%), and their use of *er*<sup>D</sup> is nearly three times as much as that in NNS data (8.3%).

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<sup>10</sup> The data here contain both the correct and the non-target like uses by the learners. When only the correct uses were counted, the result was: *er*<sup>S</sup>: 186 (41.9%), *er*<sup>Comp</sup>: 31 (7%), *er*<sup>C</sup>: 184 (41.4%), and *er*<sup>D</sup>: 43 (9.7%). *Er*<sup>S</sup> and *er*<sup>C</sup> still account for most of the data.

Table 3. *Er*'s used by non-native speakers and native speakers

	Non-native speakers		Native speakers	
	instances	percentages	instances	percentages
<i>er</i> <sup>S</sup>	219	42.3%	106	21.2%
<i>er</i> <sup>Comp</sup>	32	6.2%	28	5.6%
<i>er</i> <sup>C</sup>	224	43.2%	252	50.4%
<i>er</i> <sup>D</sup>	43	8.3%	114	22.8%
<b>Total</b>	518	<b>100%</b>	500	<b>100%</b>

More specifically, in Table 4 below, learners' data are arranged by our four major categories with their subcategories in comparison to the frequency of native speakers'.

Table 4. Frequency distribution of *er*'s used by NS and NNS

<b>Categorization</b>	<b>Semantic relations</b>	<b>B1</b>	<b>B2</b>	<b>C1</b>	<b>Total</b>	<b>%</b>	<b>NS</b>	<b>%</b>
<i>er</i> <sup>S</sup>	cause	44	67	23	<b>134</b>	<b>25.9%</b>	27	<b>5.4%</b>
	reason	18	38	9	<b>65</b>	<b>12.5%</b>	22	<b>4.4%</b>
	peripheral	3	12	5	<b>20</b>	<b>3.9%</b>	57	<b>11.4%</b>
Subtotal		<b>219 (42.3%)</b>					106	<b>21.2%</b>
<i>er</i> <sup>Comp</sup>	purpose	13	13	6	<b>32</b>	<b>6.2%</b>	28	<b>5.6%</b>
Subtotal		<b>32 (6.2%)</b>					28	<b>5.6%</b>
<i>er</i> <sup>C-A</sup>	pure additive	43	51	15	<b>109</b>	<b>21%</b>	115	<b>23%</b>
	continuation	7	9	17	<b>33</b>	<b>6.4%</b>	44	<b>8.8%</b>
<i>er</i> <sup>C-C</sup>	neutral contrast	3	3	3	<b>9</b>	<b>1.7%</b>	14	<b>2.8%</b>
	antithesis	11	27	4	<b>42</b>	<b>8.1%</b>	62	<b>12.4%</b>
	adversative	8	11	12	<b>31</b>	<b>6%</b>	17	<b>3.4%</b>
Subtotal		<b>224 (43.2%)</b>					252	<b>50.4%</b>
<i>er</i> <sup>D</sup>	continuation	9	7	11	<b>27</b>	<b>5.2%</b>	82	<b>16.4%</b>
	contrastive	4	6	6	<b>16</b>	<b>3.1%</b>	32	<b>6.4%</b>
subtotal		<b>43 (8.6%)</b>					114	<b>22.8%</b>
<b>Sum</b>		<b>163</b>	<b>244</b>	<b>111</b>	<b>518</b>	<b>100%</b>	<b>500</b>	<b>100%</b>

Patently, in learners' and native speakers' data,  $er^{C-A}$ , specifically the pure additive, takes the vast majority (21% vs. 23%). However, in terms of the discrepancy between two corpora, it is worth-noticing that while **the cause *er*** ranks the highest in learners' data (i.e. 25.9%), this is not the case in native speakers' (i.e. 5.4%); a similar case is found in **the reason *er*** (12.5% vs. 4.4%). On the other hand, what seems to characterize native speakers' data is a relatively greater use of **the peripheral *er*** in addition to **the discourse *er*'s** as just mentioned. In a nutshell, what distinguishes native speakers' use of *er* from the learners' is for one thing, that among the three subcategories of  $er^S$ , a variety of peripheral correlators for method (e.g. *yi*) or contingency (e.g. *sui*) are found to be more commonly used with *er* by L1 speakers, and for another, that a larger linguistic unit such as a sentence, instead of a dependent clause, is seen more often to be conjoined with *er*.

On the other hand, in a cross-sectional view of learners' language development, the data of *er*'s across three proficiency levels (i.e. B1, B2 and C1) with reference to L1's (e.g. the right most bar without patterns) are shown in Figure 1 (note: the categories are arranged in a descending order according to native speakers' use) :

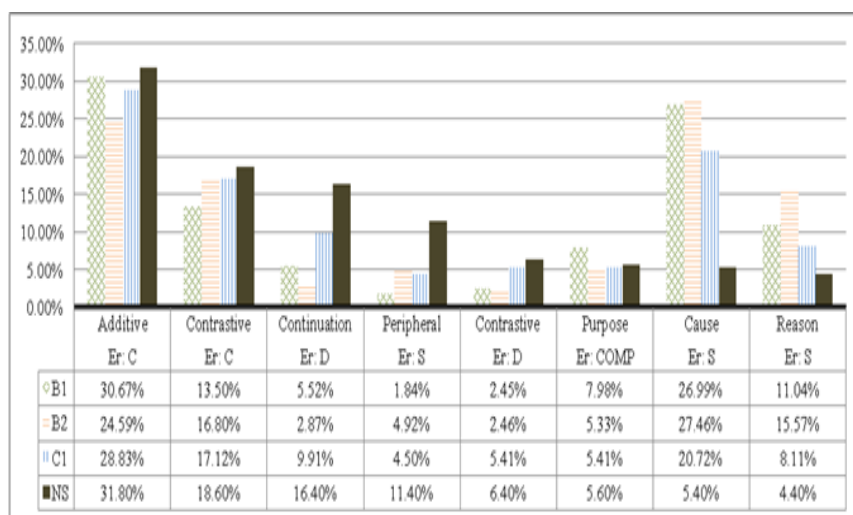


Figure 1. Frequencies of learners' use of *ers* by proficiency levels



As shown in Figure 1, while learners' use of the subcategories of additive and contrastive in  $er^C$  exhibits a similar distribution to native speakers', what seems to rise according to the proficiency level is that of **peripheral** (from 1.84% in B1 to 4.5% in C1) in  $er^S$ , and those of continuation (from 5.52% to 9.91%) and contrastive (from 2.45% to 5.41%) in  $er^D$ . But as will be discussed below, while learners across the three levels expressed lots of the additive semantic relation in  $er^C$ , or more precisely, the pure additive, the error rate in B1 is as high as 48.8% (21 out of the total 43 pure additive uses).

## 5.2 Our Categorizations of *Er*

Among the total 518 instances of *er*, 74 (i.e. 14.3%) are assumed to be non-target like or inappropriate. Most of them fall into the main categories of  $er^C$  and  $er^S$ , within which **pure additive** (6.8%) and **cause** (4.8%) prevail (See Table 5). No errors were found in the use of  $er^D$ . However, learners' being free of errors in using  $er^D$  does not necessarily mean they acquire its usage perfectly; instead, it may be under disguise of avoidance or underuse, which is evident especially if we compare the use of  $er^D$  by L1 speakers.

Table 5. Non-target like occurrences and percentage of *er*'s

Categories	Semantic relations	B1	B2	C1	Total	% in all uses
$Er^{C-A}$	Pure additive	21	11	3	35	6.8%
$Er^S$	Cause	17	7	1	25	4.8%
$Er^S$	Reason	5	0	1	6	1.2%
$Er^{C-C}$	Antithesis	1	4	0	5	1.0%
$Er^S$	Peripheral	0	2	0	2	0.4%
$Er^{Comp}$	Purpose	1	0	0	1	0.2%
$Er^{C-A}$	Continuation	0	0	0	0	0
$Er^{C-C}$	Neutral contrast	0	0	0	0	0
$Er^{C-C}$	Adversative	0	0	0	0	0
$Er^D$	Continuation	0	0	0	0	0
$Er^D$	Contrastive	0	0	0	0	0
<b>Sum</b>		45	24	5	74	14.3%

For clause conjoining, pure additive in  $er^{C-A}$  (6.8%) and cause in  $er^S$  (4.8%) rank the two highest categories among all errors. In non-target like uses of the pure additive *er*, it involves a missing associative component, which explicitly marks the relation between two clauses, or in other cases it should be replaced by *erqie* in the construction *budan...er\*(qie)* 'not only...but also'. As in cases of the cause *er*, the errors are in relation to the ungrammatical presence of a second subject in the second clause (Clause 2) in contrast with that in the first one (Clause 1). See Table 6 below (note: a target form (TF) reflects a desirable substitute form for learners' use of *er*; a target domain (TD) is the specific semantic relation involved):

Table 6: Error types of *er*

Error types	Descriptions	
<b>Misuse</b>	misuse of <i>er</i> for another conjunction due to similar additive function	
	Instances (%)	TF/TD
	<p style="text-align: center;"><b>32</b> <b>(43.2 %)</b></p>	<p><b>TF:</b> <i>erqie</i> ('furthermore') accounts for the most (others are like <i>bingqie</i> ('and' for coordinative VPs), <i>he</i> ('and' for NPs) or <i>huo</i> ('or'))</p> <p><b>TD:</b> <i>er</i><sup>C</sup> (pure additive, continuation)</p>
	misuse of <i>er</i> for <i>erqie</i> in the correlative pair construction	
	Instances (%)	TF/TD
	<p style="text-align: center;"><b>7</b> <b>(9.5 %)</b></p>	<p><b>TF:</b> <i>budan...erqie</i> 'not only...but also'</p> <p><b>TD:</b> <i>er</i><sup>C</sup> (pure additive)</p>
<b>Missing</b>	missing a correlator in Cause 1 or missing a causative/ light verb, a mirrored component or an additive adverb in Clause 2	
	Instances (%)	TF/TD
	<p style="text-align: center;"><b>25</b> <b>(33.8 %)</b></p>	<p><b>In Clause 1:</b></p> <p><b>(a) a correlator-</b></p> <p><b>TF:</b> <i>yinwei</i> 'because', <i>weile</i> 'for', <i>cong</i> 'from'</p> <p><b>TD:</b> <i>er</i><sup>S</sup> (cause, reason, peripheral)</p>

		<p><b>In Clause 2:</b></p> <p><b>(a) a causative verb or a light verb</b></p> <p><b>TF:</b> <i>rang</i> 'make', <i>lai</i> 'come'</p> <p><b>TD:</b> <i>er</i><sup>Comp</sup> (purpose)</p> <p><b>(b) a mirrored component</b></p> <p><b>TF:</b> <i>neng</i> 'can', <i>yinggai</i> 'should', <i>shi</i> 'be'</p> <p><b>TD:</b> <i>er</i><sup>C</sup> (antithesis)</p> <p><b>(c) an additive adverb</b></p> <p><b>TF:</b> <i>ye</i> 'also', <i>hai</i> 'still', 'even'</p> <p><b>TD:</b> <i>er</i><sup>C</sup> (additive)</p>
<b>Structural mismatch</b>	a different subject in Clause 2 for <i>er</i> <sup>S</sup>	
	Instances (%)	TF/TD
	<p><b>10</b></p> <p><b>(13.5 %)</b></p>	<p><b>TF:</b> <i>yinwei...suoyi</i> 'because...so'</p> <p><b>TD:</b> <i>er</i><sup>S</sup> (cause)</p>
<b>Total</b>	<p><b>74</b></p> <p><b>(100%)</b></p>	

Learners' errors are further categorized into three types and are exemplified as follows.

**Type A Misuse:** *Er* was used for another conjunction characteristic of a similar additive function (e.g. *he*, *erqie*, and *bing*), which accounted for the most errors (i.e. 43.2%). For example, *er* was overgeneralized to conjoin two NPs as in (19):

- (19) \*世界上除了這件事以外，很多人或事情讓你覺得難過，還有他們會試試看你的意志、信、**而**心情。  
 Shijie shang chule zhe jian shi yiwai,  
 world on beside this CL thing exclusive,  
 hen duo ren huo shiqing rang ni  
 very many people or thing make you  
 juedenanguo, haiyou tamen hui shishikan  
 feel broken:hearted also they will test:a:little  
 ni de yizhi, xin, **er** xinqing.  
 you DE will, faith ER mood

‘In this world, beside this thing, there are many people or other things that make you feel broken-hearted; in addition, they will also test your determination, faith and mood.’ (Korean, B2, 3 points)

Besides, *er* was also used as a reduced form for *erqie* in the correlative pair construction *budan...erqie* ‘not only...but also’, as in (20):

- (20) \*我們外國人來說唱歌是最好的國語表演。**不**但不需要什麼材料，**而**大家都可以參加。  
 Dui women waiguoren laishuo, change shi zuihao  
 for we foreigner to:speak sing:song BE the:best  
 de guoyu biaoan. **Budan** bu xuyao  
 DE Chinese performance. not:only not need  
 whatever cailiao, **er** dajia dou keyi canjia.  
 scheme material ER everyone all can participate

‘For foreigners like us, singing is the best performance in Chinese. Not only does it not need any props, but it is easy for everyone to participate.’ (Japanese, B1, 3 points)

In fact, most of the errors that occurred in pure additive in  $er^{C-A}$  were what previously were assumed to be misused with *erqie*, as in (21), which we will argue to involve more than just a substitution in Section 6.2.1.

- (21) \*我得到他的簽名，我跟他握手，而我和他一起拍照。  
 Wo dedao ta de qianming, wo gen ta  
 I get he DE signature I with him  
 woshou, *er* wo he ta yiqi paizhao.  
 shake:hand ER I with him together take:picture  
 'I got his signature, I shook hands with him and I took a picture with him.' (Japanese, B1, 5 points)

**Type B Missing: a correlator** in Clause 1, or **a verbal element** or an **associative component** in Clause 2 is missing, degrading the sentence acceptability (33.8%). The errors centered on the TD of  $er^S$  in general, **antithesis** in  $er^{C-C}$  as well as **pure additive** in  $er^{C-A}$ . In the errors found in  $er^S$ , it seems that learners simply grafted one clause onto another as in (22), leading to an obscure reading and decoding difficulties. Note that it could be saved by adding an explicit correlator such as *yin* 'because of' to enhance the logical relation between the two clauses.

- (22) ?我經常在街上看到許多流浪的狗而感到難過。  
 Wo jingchang zai jie shangkandao xuduo  
 I often at street on see many  
 liulanggou *er* gandao nanguo.  
 stray:dog ER feel sorrow  
 'I often see there are many stray dogs on the street and feel sorrowful (because of their situations).' (Korean, C1, 3 points)

Similarly, the use of a parallel structure can help the acceptability of a sentence. A case in point is given in (23). The learner in this example failed to provide a corresponding copular verb *shi* in Clause 2 to contrast with *bu shi* in Clause 1. Such a parallel structure is required for expressing the **antithesis** relation; gapping between two clauses (i.e.

‘She is not that kind of person...’ vs. ‘She \*(is) the kind of person ...’) is unacceptable in the formation of an antithesis structure.

- (23) \*我保證我所經(註：見)過的美英不是那樣的人，而\_\_\_\_喜歡幫助別人的人...。
- Wo baozheng wo suo jing-guo de Meiying bu shi  
 I promise I PTC pass-ASP DE Meiying not BE  
 nayang de ren, *er* (shi) xihuan bangzhu  
 that:kind DE person ER BE like help  
 bieren de ren...  
 other:people DE person
- ‘I guarantee that Meiying whom I passed (note: knew) is not that kind of person, but is a person who likes to help other people.’  
 (Korean, B2, 3 points)

Finally, the missing of an associative element concerns the pure additive relation and it is entangled with another conjunction *erqie*, which we will discuss in Section 6.2.1.

**Type C Mismatch:** a clause complex occurred with a second different subject in Clause 2 in the TD of cause or reason, rendering a **mismatch** (13.5%). Sentential comprehensibility in (24) was largely degraded due to the incongruous second subject ‘I’. Such a use of *er* aroused competing readings for the fact that the correlator (i.e. *yinwei*) marked a cause relation, yet the use of the two different subjects was reminiscent of a contrastive one.

- (24) \*大家好！因為你們下個月來台灣而我已經做一個旅行計畫。
- Dajiahao, *yinwei* nimen xia ge yue  
 Everyone hello because you next CL month  
 lai Taiwan *er* wo yijing zuo yi ge  
 come Taiwan ER I already make one CL  
 luxing jihua.  
 travel plan
- ‘Hello, everyone, because **you** will come to Taiwan next month, **I** have already made a travel plan.’  
 (Korean, B1, 3 points)

## 6. DISCUSSION

L2 learners' uses of *ers* have been examined under our categorization and their data have exhibited divergence from that of L1s. In this section, how learners exploit different functions of *ers* for meeting Chinese coherence or **textuality** (cf. Chu 2006) is first discussed. In addition, error types, especially those in additive and cause domains, are further analyzed. Finally, pedagogical implications are discussed.

### 6.1 The Use of *Er* for Structuring Chinese Texts: NS vs. NNS

As can be observed from the frequency distribution in the NS corpus, *er* is about equally distributed between  $er^S$  (21.2%) and  $er^D$  (22.8%), with  $er^C$  (50.4%) being the most dominant. In contrast, learners tend to use  $er^S$  (42.3%) to conjoin clauses with a subordinate-main connection at an intra-sentence level, especially in marking a cause relation (25.9%); conversely, they are less likely to use *er* to conjoin sentences/paragraphs, yielding only 8.6%. Consequently, learners develop along the spectrum from  $er^S$  to  $er^C$  and then to  $er^D$  and finally become more like native speakers in using  $er^D$  in organizing sentential units.

Let us now focus on the semantic relations that are equally distributed in the two corpora. That is, **additive** ( $er^{C-A}$ ) and **contrastive** ( $er^{C-C}$ ), which comprise nearly half of the entire data (e.g. 43.2% in learners' data and 50.4% in L1's). Functionally speaking,  $er^{C-A}$  conjoins events that are not as closely related as those in  $er^S$ . It profiles the sameness of two events, with the first event either added (i.e. pure additive) or further elaborated (i.e. continuation) by the second event. On the other hand,  $er^{C-C}$  contains two events but profiles their differences. Furthermore, it involves speakers' evaluation and its sentential semantic focus may be argued to fall on the second clause (i.e. by saying 'I want to drink coffee but I do not want to drink tea' as in the antithesis, the speaker may imply that tea is not on his wish list; otherwise, there is no need in telling the speaker what he/she doesn't want). Conceivably, the coordinator *er* can be deemed as the prototypical use in structuring Chinese texts.



In short, Chinese textuality can be functionally realized as various semantic relations by the connective device *er*. However, since *er* does not bear much semantic load in itself, it may be inclined to recruit more linguistic devices for delivering a specific interclausal semantic relation by narrowing down many a potential reading. Thus, as we shall see in the following subsections, the fact that different functions of *ers* may be divergent in their preference for specific linguistic representations may indicate a more demanding task for learners to use it correctly.

## 6.2 Learners' Errors

In identifying learners' errors of *er* (i.e. misuse, missing, and mismatch), errors such as that NPs should not be conjoined by *er* are less controversial (i.e. misuse), whereas errors such as a replacement by *erqie* cannot be easily characterized. In the following section, the dilemma of choosing *er/erqie* is first discussed, followed by the learners' ignorance of the unique semantic structure required by *er*<sup>S</sup> and finally the related pedagogical suggestion.

### 6.2.1 Choice of *er* and *erqie* in denoting pure additive semantic relation

Previous studies have been keen on pointing out that in the non-target like instances, *er* should be replaced by *erqie* without, however, pinpointing to what extent these two conjunctions are overlapped. Our analysis shows that this type of learner error exclusively belongs to the pure additive domain. For example, in the previous instance (21) made by a learner (re-indexed here as (25)):

- (25) \*我得到他的簽名，我跟他握手，而我和他一起拍照。  
 Wo dedao ta de qianming, wo gen ta woshou,  
 I get he DE signature I with him shake:hand  
*er* ① wo ② he ta yiqi paizhao.  
 ER I with him together take:picture  
 'I got his signature, I shook hands with him and I took a picture with him.' (B1)

Besides the replacement of *er* by *erqie* (e.g. position ①), the sentence can still be saved by adding an additive adverb such as *hai* 'furthermore' (e.g. position ②) in the last clause. What the additive adverb (or a conjunctive adverb as called by Liu (1996)) does here is to mark the relation explicitly through association. Consequently, the lack of such an associative element may be the cause rather than an ostensible confusion with *erqie*. Since both *er* and *erqie* can convey an additive semantic relation, simply correcting learners' infelicitous use of *er* with another conjunction does not help much in explaining how it works in conjoining clauses.

To see how the use of the additive adverb *ye* interacts with different conjunctions (e.g. zero coordinator, *erqie* and *er*), consider the examples in (26) to (28).

- (26) 張三買了房子，也買了車子。  
 Zhangsan mai-le fangzi, **ye** mai-le chezi.  
 Zhangsan buy-ASP house ALSO buy-ASP car  
 'Zhangsan bought a house; he also bought a car.'  
 (a zero coordinator, an additive adverb *ye*)
- (27) 張三買了房子，而且(也)買了車子。  
 Zhangsan mai-le fangzi **erqie** (*ye*) mai-le  
 Zhangsan buy-ASP house ERQIE ALSO buy-ASP  
 chezi.  
 car  
 'Zhangsan bought a house and he also bought a car.'  
 (conjunction *erqie*)
- (28) 張三買了房子，而也買了車子。  
 Zhangsan mai-le fangzi **er ye** mai-le chezi.  
 Zhangsan buy-ASP house ER ALSO buy-ASP car  
 'Zhangsan bought a house and he also bought a car.'  
 (*er*<sup>C</sup>, an additive adverb *ye*)

In (26), the clauses are conjoined by the zero coordinator, which is assumed to be the default linkage form in Chinese (cf. Chao 2002). The additive adverb (e.g. *ye* ‘also’) in this case helps to signal the association between two events. In (27), *erqie* is used to conjoin clauses. *Ye* is optional, since the conjunction manifests itself clearly enough in expressing its additive function. Finally, in (28), *ye* is a must when *er* is used.

Tsai’s (2006: 47) analysis of *erqie* may help illustrate the same idea. In her analysis, *erqie* presupposes **informativeness** by narrowing down or by controlling the set of possible worlds; simply put, either an adequate propositional strength or an associative adverb, such as *ye* (‘also’), is vital for speakers to manage the possible worlds grammatically. In a similar way, *er* requires a contextualization cue. In this case, an additive adverb is preferred in helping to fulfill the pure additive relation. When such cues are nonexistent, it leads to an infelicitous use of pure additive *er*, which native speakers might be inclined to replace with *erqie*, for the sake of enhancing the proposition strength, given that additive adverbs are optional in clauses conjoined by *erqie*.

Generally speaking, while *er* may seem to be equivalent to *erqie* in the pure additive domain, the former requires the help of an additive adverb to control the relation between two conjuncts, which should not be surprising given the fact that *er* can also be used for other semantic relations.

#### 6.2.2 Semantic structure for $er^S$ and $er^{Comp}$

Clausal conjuncts must be tailored in order to fit into specific syntactic and semantic relations required by different categories of *er*. This is especially true for  $er^S$  and  $er^{Comp}$  since there is a strong tendency for only an overt subject to be present. When learners failed to unite two clauses together followed by such a constraint as in the example (24) (repeated as (29) below), the superficial sentence form (i.e. neutral contrast) contradicts its intended meaning (i.e. cause), rendering a competition between two possible readings.

- (29) \*大家好！因為你們下個月來台灣而我已經做一個旅行計畫。

Dajiahao, *yinwei* nimen xia ge yue  
 Everyone hello because you next CL month  
 lai Taiwan *er* wo yijing zuo yi ge  
 come Taiwan ER I already make one CL  
 lüxing jihua.  
 travel plan

'Hello, everyone, because **you** will come to Taiwan next month, **I** have already made a travel plan.'

(Korean, B1, 3 points)

The sentence can be remedied by either moving the subject of Clause 2 (i.e. 'I') to the beginning of the clause complex or by using another functionally similar construction *yinwei...suoyi...* (literally 'because...so'), which is capable of accommodating two subjects within its scope (i.e. *yinwei* Subject1+V1, *suoyi* Subject2+V2), though a change of a causal construction may more or less influence the compactness of the entire sentence.

In Baker & Stewart's (2002) analysis of Consequential Serial Verb Construction (CSVC), each of two verbs introduces a distinct subevent in the overall composite event, which is similar to the function of purpose *er*. To some extent, Clause 2 in all of the subcategories in *er*<sup>S</sup> and in *er*<sup>Comp</sup> may be deemed as indicating a result or a consequence, only differing in whether a correlator is taken. As a consequence, two clauses work together to indicate a single composite event within which the very same subject is either the agent or the patient of two VPs. Given that Chinese does not mark the identity of the subject via morphosyntactic devices (cf. Lehmann 1988), the constraint for presence or absence of the subject is relatively subtle for learners to be aware of.

All in all, different uses of *er* are subject to syntactic constraints or inclined to have certain semantic/discourse preferences. Crucially, each use of *er* may be argued to have an optimal representation in terms of a given semantic structure, and the more the structural demand of a use is satisfied (i.e. by means of contextualization cues), the more it approaches native speakers' prototypical usage.

### 6.2.3 Pedagogical implications for *er*

From the empirical data discussed above, a picture emerges of learners' general performance in using Chinese *er*. At the beginning stage, learners across three language proficiency levels show a remarkable preference in using *er*<sup>s</sup>, especially in marking cause and reason, to conjoin a subordinate clause with a main clause. It may be argued that a correlator together with *er* form a formulaic, which may relatively facilitate learners' acquisition (cf. Ellis & Barkhuizen 2005). With an anchor-like correlator which marks a specific semantic relation, all learners have to do is fit into the construction a subordinate-main clause combination. As learners' language proficiency advances, they endeavor to exploit *er*'s discourse function as well as the peripheral *er*. In other words, they have exhibited both the complexity in conjoining different clausal types with larger linguistic units and the diversity in specifying certain a peripheral semantic relation via a contextually appropriate correlator.

To investigate L2 learners' acquisition of Chinese *er* is by no means focusing on the conjunction per se, but rather, it is more of probing how they map specific linguistic forms or structures onto the conceptual domain (cf. Clark 2004). For a function word without much semantic loading for itself as *er*, the process of clause conjoining may be done in a more implicit way. Moreover, since most adult L2 learners are well-equipped or generatively entrenched, using Pienemann's (2008) term, with their L1s, they have more or less accustomed to the way their L1s encode events in a specific way. In order to acquire different uses of *er*, learners have to re-entrench themselves in the way events are encoded in Chinese.

Therefore, the error analysis helps us understand learners' inner process in mapping linguistic forms onto conceptually eventualized experiences. But given the fact that errors can be resulted from a variety of different sources such as inter/intra-lingual transfer or context of learning, there is no guarantee that one can be unambiguously identified. For example, the instances of using *er* to conjoin two NPs may either come from an interlingual transfer (e.g. an equivalent of the coordinator *and* for English L1 speakers) or an intralingual transfer (e.g.

overgeneralize *er* or misuse it with the Chinese conjunction *he*). In fact, a more plausible account for most of the errors in using *er* may be the context of learning. Hong (2008) compared four textbooks and concluded that they either scarcely provide a systematic view of *er*'s general functions or simply annotate it with other conjunctions (e.g. *erque* 'and' and *danshi* 'but') without much explanation.

Apparently, since *er* is present in nearly all the major semantic relations in Chinese, learners may assume that any clauses can be conjoined if they can be computed to denote a complex event. Overall, the errors of *ers* are, by and large, covert and global; they do not only erode interclausal coherence but also smear sentential comprehensibility (cf. Burt & Kiparsky 1974, Corder 1971), and that is also why only when a larger linguistic context is taken into consideration that learners' infelicitous uses become obvious.

As to the instructional order of *er*, Hong (2008: 87-99) attributes the learning difficulties of *er*'s to structure (e.g. syntactic categories of conjuncts), semantics (e.g. monosemantic or polysemantic) and cross-language comparison (e.g. Chinese-English), suggesting the overall instructional sequence to be: dissimilar additive > adversative > similar additive > adverb > discourse. Mapped to our categorization, the order should be:  $er^C > er^S > er^D$ .

However, when learners' performance is taken into consideration as in Table 7,  $er^C$  is the category to pay special attention to because it is marked by ambiguities between subcategories (i.e. neutral contrast vs. adversative) and by differential needs of context-dependent adverbs.  $Er^S$ , on the other hand, is less ambiguous, given the correlators ahead can set different tones in sentences; moreover, errors pertaining to structural mismatch (i.e. subject position/numbers), which were shown mostly in  $er^S$ , are relatively overt and easy to point out.

Table 7. Error rates in different categories of *er*

<b>Categorization</b>	<b>Errors</b>	<b>Instances</b>	<b>Error rates</b>	
$er^S$	33	219	15.1%	
$er^{Comp}$	1	32	3.1%	
$er^C$	$er^{C-A}$	35	142	24.6%
	$er^{C-C}$	5	82	6.1%
$er^D$	0	43	0	

Therefore, in light of learners' data, we suggest a pedagogical order:  $(er^S, er^{Comp}) > (er^{C-A}, er^{C-C}) > er^D$ , which corresponds to the compositional stages from intra-sentence to inter-sentence. To begin with, we should focus on the correctness of a single sentence, directing learners' attention to subject issues between constructions with or without *er* (e.g. *yinwei...suoyi* vs. *yinwei...er*). Second, as for  $er^{C-A}$  and  $er^{C-C}$ , which stand on a vital position from clausal to sentential combination, synonymous uses with each of their syntactic and contextual requirements should be compared systematically; not only can this facilitate learners' differentiation towards similar conjunctions (e.g. *er* vs. *he*), but also modulate the way they encode events that optimally match the sentence structure of different *er*'s subcategories in Chinese. Finally, through learning the adverb and the conjunction *er*, learners should have accumulated enough knowledge about semantic relations revealed by different sentential units, and it will be natural for them to continue or contrast two paragraphs when exploiting  $er^D$  to structure Chinese texts.

## 7. CONCLUSION

This study investigates learners' acquisition of the conjunction *er* and their general performance in conjoining clauses within a four-tier categorization. Our findings show that at the initial stage, learners tend to use *er*<sup>S</sup> to connect clauses with a subordination relation. The study of their development further shows that learners have progressed from conjoining clauses at an intra-sentence level to an inter-sentence level.

As for learners' errors, we find linguistic devices such as correlators, associative elements (i.e. additive adverbs) and/or the requirement of a parallel structure are crucial in legitimizing learners' infelicitous use of *er*. In fact, each subcategory of *er* has its own syntactic and semantic requirement. To provide a detailed description and analysis for each subcategory of *er* is beyond the scope of our study. Yet it is hoped that with our study, it is clear that a systematic introduction of different uses of *er* with their constraints, and a finer differentiation with other conjunctions will be beneficial for L2 learners.



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## APPENDIX1: EXAMPLE OF CONTRASTIVE ER<sup>D</sup>

### *er<sup>D</sup>*: contrastive

細究民進黨變天成功的因素，除了超級助選員的明星效應，強棒候選人形象不錯，由強調台獨意識到民生議題為主的訴求，是十分成功的策略運用。而另一方面，近年黑金、治安、災難等問題影響執政黨的整體形象，對選情自然有重大影響。(擷取自光華雜誌: 跨世紀百里侯之爭——民進黨大捷 (陳妙鈴, 1997))

Xijiu	Minjingdang		biantian	
deep:probe	Democratic:Progressive:Party		overthrow	
chenggong	de yinsu,	chule	chaoji	zhuxuanyuan de
successful	DE factor	beside	super	advance:man DE
mingxing	xiaoying,	qiangbang	houxuanren	xingxiang bucuo,
superstar effect	strong		candidate	image not:bad
you qiangdiao	Taidu-yishi			dao minsheng
from emphasize	Taiwan:independency:awareness to			livelihood
yiti wei zhu	de suqiu,	shi shifen	chenggong de	
issue as principle	DE appeal	BE very	successful DE	
celüe	yunyong.	Er ling-yi-fangmian,	jinnian	heijin,
strategy exertion	ER on:the:other:side		recent:year	corruption
zhi'an,	zainan	deng	wenti	yingxiang
social:security	disaster	so:on	problem	affect
zhizhengdang	de zhengti	xingxiang, dui		
government:party	DE overall	image	toward	
xuanqing	ziran	you	zhongda	yingxiang.
election:situation	naturally	have	severe	impact

‘Apart from the superstar effect and candidates' own image, the DPP made good strategic use of such themes as Taiwanese independence and living standards. Meanwhile the KMT suffered heavily from an image tarnished by its handling of such problems as corruption, law and order, accidents and natural disasters.’

# airiti

*SLA of Chinese Conjunction Er ('And'): A Corpus-based Study*

(An excerpt from 'DPP Wins Big in Local Election' by Miaoling Chen,  
translated by Robert Taylor from Guanghua Magazine, Dec. 1997)

## APPENDIX2: CORRELATORS COMMONLY PAIRED WITH ER<sup>S</sup>

The list, including 106 instances of *er<sup>S</sup>* and ordered by descending frequency, is generated from a randomized extract of 500 instances from the *Academia Sinica Balanced Corpus of Modern Chinese (Corpus-ASB)*.

Type of Correlators		Pinyin	English	Instances	Percentages
Cause		<i>yinwei/ yin youyu</i>	because (of)	27	25.5 %
Reason		<i>weile/ wei</i>	In order to, for	22	20.8 %
Peripheral	Contingency	<i>sui suizhe</i>	with, contingent	14	13.2 %
	Method/ Manner	<i>jing jingyou tongguo kao</i>	via, by way of	14	13.2 %
		<i>you zi</i>	from	12	11.3 %
		<i>yi (third tone)</i>	by	8	7.5 %
		<i>yi (first tone) yizhao</i>	according to	5	4.7 %
		<i>yanzhe/yan</i>	along	2	1.9 %
		<i>zhendui</i>	targeting on	2	1.9 %
<b>Sum</b>				106	100%

漢語「而」的二語習得：一個基於語料庫的研究

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本文研究漢語「而」的習得，將「而」劃分為從屬標記類 (subordinator *er*)、補語標記類 (complementizer *er*)、對等連接類 (coordinator *er*)，以及篇章銜接類 (discourse marker *er*) 等四大類十一小類。研究結果發現，相較於漢語母語者，中級語言水平的學習者傾向使用大量從屬連接功能的「而」來連接具主從屬關係的子句，而其以「而」來銜接不同句子或段落的比例則偏低；另一個重要的結果是我們的研究顯示了一個中介語的特色，也就是隨著漢語水平的提升，學習者連接的成分也由句內成分的連接，發展到句子與句子或更大成分的連接。至於偏誤產生主要是來自於學習者未能顧及不同連接成分所應受到的語意和語法的限制。

關鍵字：連接詞、而、第二語言習得、語料庫研究