

Analysis on Sichuan College Students' Segmental Phoneme Errors

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The negative transfer of mother tongue has a big influence on the students in Sichuan when they learn English pronunciation. Based on the contrast analysis and error analysis theory, this paper analyzes the recordings of students' oral English test and summarizes the errors the students make when they learn the segmental phonemes: 1) Students use phonemes in Sichuan dialect to take place those similar in English; 2) Students confuse nasal consonant [n-] with lateral consonant [l-]; 3) Students find it difficult to distinguish ending consonants [-n] and [-ŋ]; 4) A lot of students can not pronounce [r] correctly; 5) Few of the students pay attention to the quality differences of long vowels and short vowels; 6) Many students mispronounce the combinations of consonants [f, v, s, z, r, h, k, g] + [i, i:]; 7) In [s + p/t/k] combination, students give a strong aspiration for [p/t/k]; 8) Students like to add a vowel sound in the consonant clusters; 9) They sometimes add a vowel after the ending consonants.

Keywords: English Pronunciation; Segmental Phoneme; Language Transfer; Error Analysis; Contrast Analysis

Introduction

The contrast analysis and error analysis hypothesis were put forward in the 1950s (Fries & Lado) based on the transfer theory, which insists that mother tongue habits would influence foreign language acquisition, that is, language transfer, defined by linguists. It is positive transfer, if the learner's native language helps in learning the second language, otherwise, the negative transfer (Wang, 1990). Despite the conflicting views on the significance of language transfer in historical linguistics, the notion of language transfer remained uncontroversial among language teachers into the twentieth century. As early as the schools of the ancient world, teachers were writing down contrastive observations about the languages students knew and the languages they wished to learn (Kelly, 1969). And as recently as the schools are influenced by figures such as Sweet (1899, 1972), Jespersen (1912), Palmer (1917), Fries (1945), and other proponents of new (or seemingly new) methods of language teaching, there is a widespread acceptance of the idea that native language influence could greatly influence second language acquisition (Odlin, 2001), especially when learning the pronunciation (Ellis, 1994). Chinese is categorized into Sino-Tibetan family while English belongs to Indo-European family, thus they differ greatly in all aspects. From the prospective of language acquisition, the lack of social and family language learning environment leads to the negative transfer rather than the positive one.

English as the second language had not been taught in most

of the middle schools in China until 1957. Most learners begin to learn English from the first year in middle school (Ke, 1986), so they miss the best time for learning the second language, that is from 6 to 12. The Chinese sound system, grammatical system and syntax have already rooted in their knowledge long before they get contact with the second language, English. Some linguists believe that language acquisition is a process of getting into habits, not that of learning. If learners drill repeatedly in listening, speaking, reading and writing, they would gradually master the second language. But the result goes against the prediction of the theorists. According to Full-time Six Years Middle School Teaching Plan, the required time for English learning is: 960 hours for arts majors, five hours per week; 932 hours for science majors, five hours per week in the first two years, and in the last year, four hours per week (Ke, 1986). The Chinese students in fact spend a lot of time in learning English before entering colleges, and they are excellent in writing and reading comprehension, but very poor in oral English, especially the students from Sichuan dialect area. Due to mother tongue's negative transfer, students' poor pronunciation seriously influence their spoken English and their listening comprehension.

Segmental phoneme is one of the most important factors to distinguish meanings in English. Due to mother tongue's transfer, lot of students in Sichuan dialect area makes mistakes when they speak English. Based on contrast analysis and error analysis theory, this paper analyzes their segmental phoneme errors in their pronunciation and the reasons so as to give some hints to language teachers in dialect areas.

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in another word, they are appophones, some what like “p” in *pot* and “p” in *spot* in English. Therefore, it is very common to hear the students pronounce *name* as [], or *like* as []*.

c) They find it difficult to distinguish [-] and [-].

When [-] and [-] appear at the end of a word, there are six combinations in Sichuan dialect:

[-], [-], [-], [-], [-], [-], among which only [-] and [-] are distinguishing phonemes in Sichuan dialect, for example, *ānquán* (安全), *āngzhāng* (肮脏). There are not [-] and [-] in its sound system. That is why so many students find it difficult to distinguish such words as *sing*, *thing*, *rang*, *song* from *sin*, *thin*, *ran* and *son*.

d) A lot of students can not pronounce [] correctly.

Phoneme [] in English is defined as a voiced post alveolar fricative. The sound is articulated between the tip of the tongue and the back part of the teethridge. When the air passes over air passage, the soft palate is raised, the lips are rounded and the vocal cords are made to vibrate. In most regions of Sichuan dialect area, there is not such a sound, and only in some places there is a similar sound [], but the lips are not rounded. When students meet the words like *read*, *right* etc., they pronounce them either as []* and []*, or []* and []*.

e) Few of the students pay attention to the quality differences of long vowels and short vowels.

The length of articulation and the tense degree of muscle do not distinguish meanings in Sichuan dialect, while in English they are very important distinctive features. There are four sets of vowels different in length in English, they are: [], [], [], []. They do differ from each other in length, or in “quantity”, but at the same time, they differ in “quality” (Gimson, 1970, p.103). Generally speaking, the short vowels in English are articulated shorter and the muscle of the speech organ, is less tense, but for the long ones, it is longer and more tense, therefore, the openings of the mouth for the long vowels are bigger and the front part of tongue is lower. Students in Sichuan can easy distinguish them in length, but they usually neglect their differences in quality. Example: in the word *bit*, [] is short and relaxed, but many students make it too tense and close, which sounds like the shortened [].

2) Errors in sound combinations

a) Errors in C (consonant) + V (vowel) combinations

Many students mispronounce the combinations of consonants [f, v, s, z, r, h, k, g] + []. In Sichuan dialect, [f, , s, z, r, h, k, g] never appear before close vowels [], and the smallest close vowel following these consonants are [], so they tend to pronounce words like *fill*, *veil*, *silk*, *zero*, *real*, *hill*, *kill*, *give* as []*, []*, []*, []*, []* or []*, []*, []* and []*.

b) In [s + p/t/k] combination, students give a strong aspiration for [p/t/k].

According to English pronunciation rules, when [p, t, k] fol-

low an initial [s], they are realized with no aspiration even when stressed (Gimson, 1970: p. 48). It is a redundant feature in English which does not discriminate meanings of words. Example, [] in word *sport*, [] in *student* and [] in *sky* are unaspirated. Many students usually pronounce them with a strong aspiration: []*, []*, []*, which sounds really odd.

c) They like to add a vowel sound in the consonant clusters.

Consonant clusters are very common in English, but never in Sichuan dialect (see Part III). When they read words with consonant clusters like: br-, bl-, pr-, pl-, kr-, kl-, gr-, gl-, sr-, sl-, thr-, spl-, spr-, skr-, -pl- etc., they usually add a vowel sound between the consonants. Examples: *please* []*, *employ* []*, *three* []*. Sometimes, they add a vowel sound in the ending clusters. Example: *bags* []*.

d) They sometimes add a vowel after the ending consonants.

In Sichuan dialect, only [- , -] appear at the ending position, and the others all at the beginning, followed by vowels. There are many open syllables ending in vowels. Students are used to ending a syllable with a vowel. When they meet the words ending in consonants in English, unconsciously they like to add a vowel after the consonant. Example: *sit* []* or []*, *bad* []*, *take* []*.

Conclusion

Judging from the analysis above, we are convinced of that language transfer, to be precise, the negative transfer of mother tongue does exist when learners learn a foreign language, especially when learning the pronunciation. It is evident that the differences in the sound systems between Sichuan dialect and English give great difficulties to the students, as is showed above. We hope our analysis could give some hints to language teachers in dialect areas if it's useful.

REFERENCES

- Cui, R. C. (1996) *Sichuan dialect and bashu culture, Chapter Three. Sichuan official language*. Chengdu: Sichuan University Press.
- Gimson, A. C. (1970). *An introduction to the pronunciation of English* (2nd ed). London: Latimer Trend & Co. Ltd.
- Fries, C. C. (1962). *Teaching and learning English as a foreign Language*. Ann Arbor: University of Michigan Press.
- Wang, C. M. (1990). *Applied psycholinguistics*. Changsha: Hunan Education Press.
- O'Connor & Arnold (1961). *Intonation of colloquial English* (2nd ed). Longman.
- Ellis, R. (1999). *The study of second language acquisition*. Shanghai: Shanghai Foreign Languages Education Press.
- Odlin, T. (2001). *Language transfer*. Shanghai: Shanghai Foreign Languages Education Press.
- Xu, T. F., Yu, X. M., & Sun, W. B. (1985). *Modern English phonetics*. Xi'an: Shanxi People Publishing House.