

# **Yáo'ān Central Yi Phonology**

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## ABSTRACT

This study launches a phonological analysis of the Yáo'ān Central Yi language as spoken by the Yi people who live in and around the area of Mayou 马游村 west of the city of Yáo'ān 姚安市, in the *Chuxiong Autonomous Prefecture* 楚雄彝族自治州, of Yunnan 云南省, China 中国. The speakers of the language refer to their speech as Loxrlavu (lɔʔ<sup>21</sup>la<sup>33</sup>vɔ<sup>33</sup>) or Loxrlovu (lɔʔ<sup>21</sup>lo<sup>33</sup>vɔ<sup>33</sup>). Yáo'ān Central Yi is a member of the Sino-Tibetan language family, placed under the Tibeto-Burman group and further classified under the Loloish Branch.

The purpose of the study is to identify the phones of the language and break them down into phonemes for the purpose of transcribing the language using Roman letters, which is generally referred to as a “pinyin” (拼音) of the language. The transcription is based, as closely as possible, on the Chinese language “pinyin” as well as on how a number of prominent Chinese linguists have described other minority languages of China.

## ABBREVIATIONS

A tilde (~) is used in graphic descriptions to separate reduplicated syllables. Symbols occurring between slashes /.../ are phonemic, while symbols between brackets [...] are phonetic. In addition, angled brackets <...> are used to enclose orthographic representation.

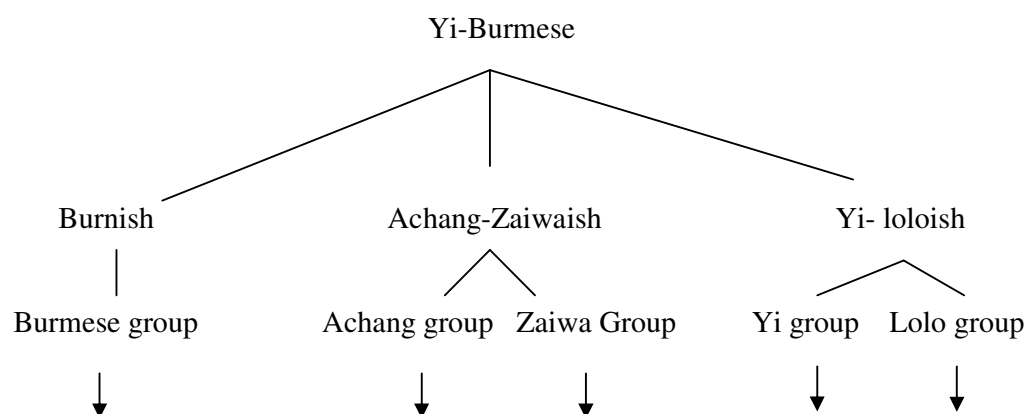
ASP	Aspect
DET	Determiner
IMP	Imperative
C	Consonant
CLF	Classifier
CV	Consonant-Vowel
1SG	First person singular
2 SG	Second person singular
3 SG	Third person singular
1PL	First person plural
2 PL	Second person plural
3 PL	Third person plural
PFV	Perfective Aspect of the Verb
POSS	Possessive
REL	Relative marker
TOP	Topicalizer
v <sup>21</sup>	Vowel marked by low tone
v <sup>33</sup>	Vowel marked by mid tone
v <sup>44</sup>	Mid tone vowel influenced by tone sandhi and thus slightly raised
V <sup>55</sup>	Vowel marked by high tone
V <sup>66</sup>	High tone vowel influenced by tone sandhi and thus slightly raised

# 1. Introduction

This study launches a phonological analysis of the Yáo'ān Central Yi language as spoken by the Yi people who live in and around the area of Mayou 马游村 west of the city of Yáo'ān 姚安市, in the *Chuxiong Autonomous Prefecture* 楚雄彝族自治州, of Yunnan 云南省, China 中国. Locally, the speakers of this language—numbering more than 100,000 (Lewis 2009)—refer to their speech as Loxrlavu (lɔ̌ʔ²¹la³³vɔ̌³³) or Loxrlovu (lɔ̌ʔ²¹lɔ̌³³vɔ̌³³).

The Yáo'ān Central Yi language has been classified as one of a number of Sino-Tibetan languages placed under the Tibeto-Burman group and further classified under the Loloish Branch. Although linguists do not totally agree as to the exact classification of each Yi language within the Tibeto-Burman language family, it is not the purpose of this paper to focus on that issue, but rather to give the reader some perspective as to where Yáo'ān Central Yi fits in with other related languages. Please note the diagrams below.<sup>1</sup>

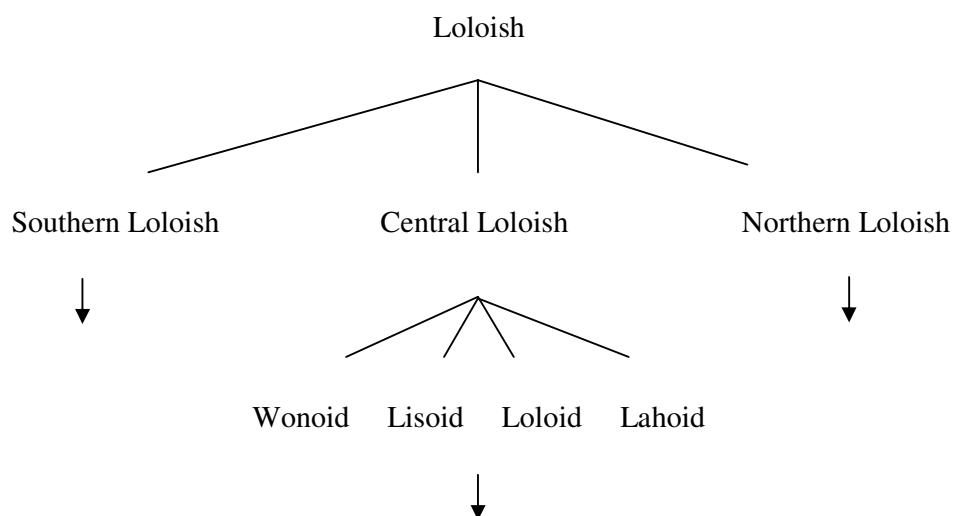
The Chinese linguist Su (1991) proposed the following taxonomy for the Yi languages. Note that the lower subgroups have not been detailed here. Note also that the Yi group and the Lolo group are split from each other. Yáo'ān Central Yi fits in the Lolo Group.



David Bradley (1979) split the Loloish languages into three principal groups and then additional subgroups, which are not detailed here. Yáo'ān Central Yi is part of the Central Loloish/Loloid group<sup>2</sup>:

<sup>1</sup> Both charts are taken from Qiu, Fuyuan. (1998).

<sup>2</sup> It should be noted that both Bradley and Pelkey (personal correspondence) more recently have referred to the Loloish languages as the Ngwi languages.



## 2. Tones

### 2.1. Phonemic Tones

Yáo'ān Central Yi has three phonemic tones that occur in single, isolated syllables and contrast in identical environments: low tone; mid tone; and high tone as in:

1. li<sup>21</sup> 'heavy'
2. li<sup>33</sup> 'want'
3. li<sup>55</sup> 'rice seedling'

And, as is often the case, low tone has a falling pitch.

### 2.2. Tone Sandhi

When modifiers in Yáo'ān Central Yi are reduplicated, it results in tone sandhi. The tone sandhi varies depending on the tone of the morpheme, as illustrated below.<sup>3</sup>

Yáo'ān Central Yi also forms questions by reduplicating the verb. However, this is a syntactic process and tone sandhi does not apply.

/<sup>33</sup>/<sup>33</sup>/ tones are realized as:

- a) [<sup>55</sup>] [<sup>33</sup>] reduplicated syllables to form nominal constructions
- b) [<sup>33</sup>] [<sup>33</sup>] reduplicated syllables to form questions

When modifiers with mid-tone /<sup>33</sup>/ are reduplicated to nominal constructions, the reduplicated syllable is the first syllable, which then occurs with high [<sup>55</sup>] tone. Words that express a particular color follow the same pattern.

- |    |   |   |
|----|---|---|
| 4. | bi <sup>33</sup> →<br>full                | bi <sup>55</sup> ~bi <sup>33</sup><br>full~full                               |
| 5. | t <sup>h</sup> u <sup>33</sup> →<br>thick | t <sup>h</sup> u <sup>55</sup> ~t <sup>h</sup> u <sup>33</sup><br>thick~thick |

<sup>3</sup> It should be noted that tone sandhi, as it relates particularly to tense syllables, warrants additional research.

- |    |                    |                                    |
|----|--------------------|------------------------------------|
| 6. | ni <sup>33</sup> → | ni <sup>55</sup> ~ni <sup>33</sup> |
|    | red                | red~red                            |

When modifiers reduplicate to form questions, no tone sandhi occurs; both syllables retain [33] mid tone.

- |    |  |
|----|--|
| 7. | Pa <sup>44</sup> la <sup>21</sup> xa <sup>55</sup> de <sup>33</sup> bi <sup>33</sup> bi <sup>33</sup> ? ‘Is that bowl full?’<br>bowl that CLF full full                                    |
| 8. | Ni <sup>33</sup> de <sup>33</sup> su <sup>55</sup> mu <sup>55</sup> t <sup>h</sup> u <sup>33</sup> t <sup>h</sup> u <sup>33</sup> ? ‘Is your book thick?’<br>2SG POSS book TOP thick thick |
| 9. | Ni <sup>33</sup> de <sup>33</sup> pia <sup>33</sup> ni <sup>33</sup> ni <sup>33</sup> ? ‘Are your clothes red?’<br>2SG POSS clothes red red  |

When modifiers with the /<sup>21</sup>/ low tone are reduplicated to form nominal constructions, some morphemes are reduplicated with no tone sandhi, while with others the tone of the first reduplicated syllable changes to the [<sup>55</sup>] high tone.

In the case where the first tone is not replaced with high tone, one possible conclusion is that low tone is the default tone and the language has a constraint against deleting low tones. This constraint blocks the reduplication process high tone from replacing the morpheme’s intrinsically low tone.

When modifiers with low tone /<sup>21</sup>/ are reduplicated for any reason, there is no tone sandhi.

- |     |   |   |
|-----|---|---|
| 10. | li <sup>21</sup> →  | li <sup>21</sup> ~li <sup>21</sup>                  |
|     | heavy   | heavy~heavy   |
| 11. | væ <sup>21</sup> →  | væ <sup>21</sup> ~væ <sup>21</sup>                  |
|     | big   | big~big   |
| 12. | vi <sup>55</sup> mi <sup>21</sup> →   | vi <sup>55</sup> mi <sup>21</sup> ~mi <sup>21</sup> |
|     |   | far~far (reduplicated second syllable)              |
| 13. | ni <sup>33</sup> li <sup>55</sup> pa <sup>33</sup> de <sup>33</sup> li <sup>21</sup> li <sup>21</sup> ? ‘Is your bag heavy?’<br>2SG bag CLF heavy heavy |   |
| 14. | ja <sup>21</sup> de <sup>33</sup> ʔa <sup>33</sup> no <sup>55</sup> væ <sup>21</sup> væ <sup>21</sup> ? ‘Is his/her dog big?’<br>3SG POSS dog big big   |   |
| 15. | ja <sup>21</sup> zɿ <sup>33</sup> vi <sup>33</sup> mi <sup>21</sup> ~mi <sup>21</sup> ? ‘Did s/he go far?’<br>3SG go far~far                            |   |

In the case where the first tone is replaced with a high tone, those morphemes are intrinsically toneless. Here, the constraint against deleting low tones does not apply, so the reduplication process’s high tone is allowed to appear—which is the normal reduplication tone sandhi process. In addition, since low tone is the default tone in this language, any morpheme that lacks a tone of its own receives a low tone before it is pronounced. Thus, when the first reduplicated syllable receives the [<sup>55</sup>] tone, the second morpheme receives the [<sup>21</sup>] tone before being pronounced.<sup>4</sup>

/ / / tones are realized as:

- |    |  |  |
|----|--|--|
| a) | [ <sup>55</sup> ] [ <sup>21</sup> ] when the toneless syllable is reduplicated to form nominal constructions |  |
| b) | [ <sup>21</sup> ] [ <sup>21</sup> ] when syllables are reduplicated to form questions.                       |  |

When intrinsically toneless modifiers are reduplicated to form nominal constructions, the preceding reduplicated syllable receives the high [<sup>55</sup>] tone, while the original syllable is assigned the [<sup>21</sup>] tone before being pronounced.

- |     |      |                                    |
|-----|------|------------------------------------|
| 16. | næ → | næ <sup>55</sup> ~næ <sup>21</sup> |
|     | near | near~near                          |

<sup>4</sup> Colleague Jeff Green suggested this solution for which I am grateful.

- |     |              |   |
|-----|--------------|---|
| 17. | se →<br>good | se <sup>55</sup> ~se <sup>21</sup><br>good~good |
| 18. | və →<br>firm | və <sup>55</sup> ~və <sup>21</sup><br>firm~firm |

When intrinsically toneless modifiers are reduplicated to form questions, there is no tone sandhi and both syllables are assigned the default [21] tone before being pronounced.

- |     |   |
|-----|---|
| 19. | ni <sup>33</sup> de <sup>33</sup> ʔa <sup>33</sup> ku <sup>33</sup> næ <sup>21</sup> næ <sup>21</sup> ‘Is your home near?’<br>2SG POSS home near near   |
| 20. | ja <sup>21</sup> pe <sup>33</sup> te <sup>33</sup> mur <sup>55</sup> se <sup>21</sup> se <sup>21</sup> ? ‘Did s/he do well?’<br>3SG do ASP REL good good  |
| 21. | p <sup>h</sup> ja <sup>33</sup> ka <sup>55</sup> la <sup>33</sup> pɔ <sup>44</sup> ʔe <sup>55</sup> de <sup>33</sup> və <sup>21</sup> və <sup>21</sup> ? ‘Is this thing used for hanging clothes steady?’<br>clothes hang thing this CLF steady steady<br>(i.e., Is it going to stay in place and not fall down?) |

When morphemes with high tone /<sup>55</sup>/ are reduplicated for any reason, there is no tone sandhi.

- |     |   |   |
|-----|---|---|
| 22. | ne <sup>55</sup><br>deep  | ne <sup>55</sup> ~ne <sup>55</sup><br>deep~deep                                       |
| 23. | n <sup>o</sup> <sup>55</sup><br>short   | n <sup>o</sup> <sup>55</sup> ~n <sup>o</sup> <sup>55</sup><br>short~short             |
| 24. | ts <sup>h</sup> o <sup>55</sup><br>arrogant   | ts <sup>h</sup> o <sup>55</sup> ~ts <sup>h</sup> o <sup>55</sup><br>arrogant~arrogant |
| 25. | ʔa <sup>33</sup> dʒi <sup>33</sup> bu <sup>33</sup> dɣ <sup>21</sup> xa <sup>55</sup> de <sup>33</sup> ne <sup>55</sup> ne <sup>55</sup> ? ‘Is that pond deep?’<br>water pond DET CLF deep deep     |   |
| 26. | dza <sup>21</sup> gu <sup>21</sup> xa <sup>55</sup> ts <sup>h</sup> æ <sup>44</sup> n <sup>o</sup> <sup>55</sup> n <sup>o</sup> <sup>55</sup> ? ‘Is that stick short?’<br>stick DET CLF short short |   |
| 27. | ts <sup>h</sup> a <sup>33</sup> xa <sup>55</sup> de <sup>33</sup> ts <sup>h</sup> o <sup>55</sup> ts <sup>h</sup> o <sup>55</sup> ? ‘Is that person arrogant?’<br>person DET CLF arrogant arrogant  |   |

Tone sandhi occurs when identical syllables are repeated three times with the syllable in the middle being pronounced high [<sup>55</sup>] tone.

- |     |   |
|-----|---|
| 28. | bo <sup>33</sup> ~bo <sup>55</sup> ~bo <sup>33</sup> ‘bright; shiny’  |
| 29. | n <sup>ə</sup> ʔ <sup>21</sup> ~n <sup>ə</sup> ʔ <sup>55</sup> ~n <sup>ə</sup> ʔ <sup>21</sup> ‘sticky’                     |
| 30. | k <sup>w</sup> a <sup>21</sup> ~k <sup>w</sup> a <sup>55</sup> ~k <sup>w</sup> a <sup>21</sup> (the sound of flowing water) |

Mid-tone /<sup>33</sup>/ classifiers; that is, those words that enumerate or otherwise specify subsequent nouns, change to low tone /<sup>21</sup>/ when following a syllable with low tone such as /ʔa<sup>21</sup>/ ‘a’ (indefinite article) or /ts<sup>h</sup>ɿ<sup>21</sup>/ ‘one’.

The word /de<sup>33</sup>/ is a classifier used for people and it is a general classifier for things.

- |     |  |  |
|-----|--|--|
| 31. | ʔe <sup>55</sup> de <sup>33</sup> ‘this CLF’   | ʔa <sup>21</sup> de <sup>21</sup> ‘a (indefinite article) CLF’ |
| 32. | xa <sup>55</sup> de <sup>33</sup> ‘that CLF’   | ts <sup>h</sup> ɿ <sup>21</sup> de <sup>21</sup> ‘one CLF’     |
| 33. | ts <sup>h</sup> ɿ <sup>21</sup> de <sup>21</sup> ts <sup>h</sup> ɿ <sup>21</sup> de <sup>21</sup> ‘one by one’ |  |

The word /do<sup>33</sup>/ is a classifier for young children and babies.

- |     |  |  |
|-----|--|--|
| 34. | ʔe <sup>55</sup> do <sup>33</sup> ‘this CLF’ | ʔa <sup>21</sup> do <sup>21</sup> ‘a (indefinite article) CLF’ |
| 35. | xa <sup>55</sup> do <sup>33</sup> ‘that CLF’ | ts <sup>h</sup> ɿ <sup>21</sup> do <sup>21</sup> ‘one CLF’     |

The word /t<sup>h</sup>ə<sup>33</sup>/ is a classifier that has negative connotations for people (or bad creatures).

- |     |  |  |
|-----|--|--|
| 36. | ʔe <sup>55</sup> t <sup>h</sup> ə <sup>33</sup> ‘this CLF’ | ʔa <sup>21</sup> t <sup>h</sup> ə <sup>21</sup> ‘a (indefinite article) CLF’ |
| 37. | xa <sup>55</sup> t <sup>h</sup> ə <sup>33</sup> ‘that CLF’ | ts <sup>h</sup> ɿ <sup>21</sup> t <sup>h</sup> ə <sup>21</sup> ‘one CLF’     |



The word /bæ<sup>33</sup>/ is a classifier for a piece of land.

38.      ʔe<sup>55</sup> bæ<sup>33</sup> ‘this piece’                      ʔa<sup>21</sup> bæ<sup>21</sup> ‘a (indefinite article) piece’  
 39.      xa<sup>55</sup> bæ<sup>33</sup> ‘that piece’                      ts<sup>h</sup>ɿ<sup>21</sup> bæ<sup>21</sup> ‘one piece’

The word /jo<sup>33</sup>/ is a classifier that is glossed as ‘kind’ or ‘type.’

40.      ʔe<sup>55</sup> jo<sup>33</sup> ‘this kind’                      ʔa<sup>21</sup> jo<sup>21</sup> ‘a kind’  
 41.      xa<sup>55</sup> jo<sup>33</sup> ‘that kind’                      ts<sup>h</sup>ɿ<sup>21</sup> jo<sup>21</sup> ‘one kind’

The number ‘four’ is the mid-tone word /li<sup>33</sup>/.

42.      ʔa<sup>55</sup> dɿ<sup>21</sup> li<sup>33</sup> p<sup>h</sup>e<sup>55</sup> ‘four doors’  
             door four CLF<sup>i</sup>  
 43.      ʔa<sup>33</sup> ts<sup>h</sup>ɿ<sup>55</sup> li<sup>33</sup> ts<sup>h</sup>ɿ<sup>21</sup> ‘four flocks of goats’  
             goat four CLF  
 44.      ts<sup>h</sup>e<sup>33</sup>-li<sup>33</sup> ‘fourteen’  
             ten-four  
 45.      li<sup>33</sup>-ts<sup>h</sup>e<sup>33</sup> ‘forty’  
             four-ten  
 46.      li<sup>33</sup>-ʃo<sup>33</sup> ‘four-hundred’  
             four-hundred

However, this mid-tone rises to high tone before the CLF /lɔ<sup>21</sup>/.

47.      ts<sup>h</sup>a<sup>33</sup> li<sup>55</sup> lɔ<sup>21</sup> ‘four people’

### 3. Syllable Structure

Onset	Peak
C	V

The unambiguous syllable structure for Yáo’ān Central Yi is a CV pattern, as illustrated in the examples below:

48.      ts<sup>h</sup>a<sup>33</sup> ‘person’  
 49.      ʔa<sup>55</sup> t<sup>h</sup>o<sup>21</sup> ‘knife’  
 50.      jɿ<sup>44</sup> ‘chicken’  
 51.      ŋo<sup>33</sup> 1SG  
 52.      ʔa<sup>55</sup> mo<sup>33</sup> ta<sup>55</sup> ‘paternal aunt’

As in many languages, the affricates and aspirated consonants function as a single consonant, and will be considered as such in this paper.

53.      tsa<sup>33</sup> ‘circle; go-around’                      <za>  
 54.      ts<sup>h</sup>a<sup>33</sup> ‘person’                      <ca>  
 55.      k<sup>h</sup>u<sup>33</sup> ‘harm’                      <ke>

Palatalization and labialization are analyzed as diphthongs in the section on vowels below.

## 4. Syllable Stress

Stress is not contrastive for Yáo'ān Central Yi. The tone (pitch level) of the syllable and syllable stress are related in that, when there is a two-syllable utterance, the syllable with the higher tone carries slightly greater stress. If the tones are the same, syllable stress is the same for both syllables. In this context the term "stress" implies loudness. It has also been noted that no significant lengthening of the vowel has been observed occurring with increased syllable stress.

In addition, greater stress on a syllable can raise the tone. For example, there is a set of time-related phrases in Yáo'ān Central Yi that are glossed as: 'then; later; next; at that time', and in all such cases the final syllable is stressed. This final syllable carries a slightly higher pitch than normal.<sup>5</sup>

- |     |   |               |   |
|-----|---|---------------|---|
| 56. | næ <sup>55</sup> po <sup>55</sup> næ <sup>55</sup> 'but at that time'           | is pronounced | næ <sup>55</sup> po <sup>55</sup> næ <sup>66</sup>                  |
| 57. | næ <sup>55</sup> gɛ <sup>33</sup> dɛ <sup>33</sup> næ <sup>55</sup> 'then next' | is pronounced | næ <sup>55</sup> gɛ <sup>33</sup> dɛ <sup>33</sup> næ <sup>66</sup> |
| 58. | næ <sup>55</sup> po <sup>55</sup> jo <sup>55</sup> 'but then'                   | is pronounced | næ <sup>55</sup> po <sup>55</sup> jo <sup>66</sup>                  |
| 59. | jɛ <sup>55</sup> po <sup>55</sup> næ <sup>55</sup> 'then at that time'          | is pronounced | jɛ <sup>55</sup> po <sup>55</sup> næ <sup>66</sup>                  |
| 60. | jɛ <sup>55</sup> po <sup>55</sup> jo <sup>55</sup> 'then at that time'          | is pronounced | jɛ <sup>55</sup> po <sup>55</sup> jo <sup>66</sup>                  |

## 5. Vowels

### 5.1. Vowel Phoneme Inventory

Phonemically, there are seven vowels in Yáo'ān Central Yi and each of these vowels has a tense equivalent. There are an additional seven diphthongs, which make a total of twenty-one vowels.

In regard to the tense vowels, this particular investigation did not include the use of acoustic equipment, thus more research may be warranted. However, in non-technical terms the tense vowels of Yáo'ān Central Yi could be described as contrasting with the lax vowels in that they are pronounced with more tension or tightness in the throat, or with a harsher sound quality. It has also been noted that for tense vowels in the /<sup>33</sup>/ and /<sup>55</sup>/ tone range, along with the harsher sound quality, the increase of tension results in a raised tone—perhaps approximating [44] and [66] respectively. For tense vowels in the /<sup>21</sup>/ tone range, along with the harsher sound quality, there may be some laryngealization, and there is often a more pronounced syllable-final glottal glottal stop.

In the chart below the tense vowels are underlined:

Front		Back	
Unrounded		Unrounded	Rounded
Close	i, <u>i</u>	u, <u>u</u>	
Near-close		o, <sup>6</sup> <u>o</u>	
Mid	e, <u>e</u>		o, <u>o</u>
Near-open	æ, <u>æ</u>		
Open	a, <u>a</u>		
Diphthongs	jɛ, jæ, <u>jæ</u> , ja, <u>ja</u>		jo, <u>jo</u>

<sup>5</sup> Both /næ<sup>55</sup>/ 'then' and /jo<sup>55</sup>/ 'again' have been observed to occur in isolation with the /<sup>55</sup>/ tone.

<sup>6</sup> In this analysis the symbol /o/ represents an unrounded sound, which is pronounced with friction. When it is manifested as the syllabic consonant [ɰ], the fricative quality increases.

61.	ni <sup>33</sup> ‘day’	ni <sup>44</sup> ‘heart’
62.	bu <sup>33</sup> ‘pen; stall; sty’	bu <sup>44</sup> ‘idol’
63.	go <sup>33</sup> ‘beat’	go <sup>44</sup> ‘gather’
64.	me <sup>33</sup> ‘smear; plaster’	me <sup>44</sup> ‘eye’
65.	lo <sup>21</sup> ‘tea’	lo <sup>21</sup> ‘enough’
66.	væ <sup>21</sup> ‘big’	væ <sup>21</sup> ‘write’
67.	ʔa <sup>33</sup> ne <sup>33</sup> ‘grandmother’	ʔa <sup>44</sup> ne <sup>44</sup> ‘crow’
68.	ki <sup>55</sup> ‘sweat’	ki <sup>44</sup> (classifier for house)
69.	tshæ <sup>33</sup> ‘lard’	tshæ <sup>33</sup> ‘person’

The diphthongs /i<sup>o</sup>/, /i<sup>o</sup>/, /i<sup>a</sup>/, /i<sup>a</sup>/, /i<sup>ε</sup>/ and /i<sup>ε</sup>/ are preceded by bilabial plosives, bilabial and alveolar nasals /m/ and /n/, or post-alveolar sibilants. Velar sounds only precede /i<sup>ε</sup>/ and /i<sup>ε</sup>/.

70.	ʃi <sup>33</sup> ‘house’	ʃi <sup>33</sup> ‘wait’	ʃi <sup>33</sup> ‘give birth’
71.	pi <sup>44</sup> ‘ask’	pi <sup>21</sup> ‘speak’	
72.	mi <sup>33</sup> ‘see’	ni <sup>55</sup> 1PL.INCL	
73.	ki <sup>66</sup> ‘bury; dig’	gi <sup>44</sup> ‘mix together’	gi <sup>33</sup> ‘place’
74.	ʔa <sup>55</sup> ni <sup>44</sup> ‘buffalo’	tʃi <sup>21</sup> ‘clever’	

In addition, certain words are borrowed from Mandarin Chinese that include a /<sup>w</sup>a/ diphthong, some of which are:

75.	ga <sup>33</sup> ‘pull’	g <sup>w</sup> a <sup>21</sup> ‘quack’ (duck sound)
76.	ka <sup>44</sup> ‘play’	k <sup>w</sup> a <sup>33</sup> ‘hoe’ (verb)
77.	kh <sup>44</sup> ‘village’	kh <sup>w</sup> a <sup>33</sup> ‘wide’
78.	xa <sup>33</sup> ‘move’	x <sup>w</sup> a <sup>33</sup> t <sup>44</sup> (name of a dance)
79.	la <sup>33</sup> ‘light-weight; few’	l <sup>w</sup> a <sup>55</sup> ‘chaotic’

Labialization occurring in words that are not borrowed from Mandarin Chinese is simply the result of a consonant plus /o/ combination, where the influence from the /o/ vowel—which is pronounced with rounded lips—causes the labialization. This word-medial diphthong /<sup>w</sup>o/ is in free variation with the /o/; there is no contrast.

80.	bo <sup>21</sup> ~ b <sup>w</sup> o <sup>21</sup> ‘father’
81.	do <sup>33</sup> ~ d <sup>w</sup> o <sup>33</sup> ‘able’
82.	lo <sup>33</sup> ~ l <sup>w</sup> o <sup>33</sup> ‘tongue’
83.	go <sup>21</sup> ~ g <sup>w</sup> o <sup>21</sup> ‘buckwheat’
84.	ŋo <sup>33</sup> ~ ŋ <sup>w</sup> o <sup>33</sup> 1SG

## 5.2. Complementary Distribution Rules for the Vowels

Yáo’ān Central Yi vowels are influenced by preceding consonants. In many of the following complementary distribution rules, the basic phonemes of the language occur after bilabial and velar consonants. In addition, the sounds identified as allophones occur after alveolar or post-alveolar consonants.

/o/ is realized phonetically as:

- [y] / /d/ \_\_\_\_\_ tone /<sup>21</sup>/
- [o] / \_\_\_\_\_

When the near-close, back unrounded phoneme /o/ occurs in a <sup>21</sup>/ low tone syllable following the voiced alveolar plosive /d/, it is realized as the syllabic consonant [ɤ].<sup>7</sup>

- 85. ja<sup>21</sup>dɤ<sup>21</sup> ‘hole’
- 86. la<sup>33</sup>ka<sup>55</sup>dɤ<sup>21</sup> ‘cliff’
- 87. ʔa<sup>55</sup>dɤ<sup>21</sup> ‘door’
- 88. mi<sup>33</sup>dɤ<sup>21</sup> ‘ground; earth’
- 89. lo<sup>21</sup>ta<sup>55</sup>dɤ<sup>21</sup> ‘pants; trousers’

It is realized as the near-close, back unrounded phone /ʊ/ in other environments.

- 90. fo<sup>33</sup> ‘give in marriage’
- 91. mo<sup>33</sup> ‘do; be; work as’
- 92. do<sup>33</sup> (DUR aspect)
- 93. go<sup>55</sup>sɿ<sup>55</sup>ʃo<sup>33</sup> ‘January’
- 94. ʔa<sup>21</sup>ki<sup>55</sup>go<sup>21</sup> ‘a while’

/i/, /o/ are realized phonetically as:

- a. [ɿ], [ʊ] /alveolar sibilants \_\_\_\_\_
- b. [i] and [o] / \_\_\_\_\_

/i/, /o/ are realized phonetically as:

- a. [ɿ], [ʊ] /alveolar sibilants \_\_\_\_\_
- b. [i] and [o] / \_\_\_\_\_

The close, front unrounded phoneme /i/ and the near-close, back unrounded phoneme /o/ move toward the center, when occurring after the alveolar sibilants /z, s, dz, ts and ts<sup>h</sup>/ and are realized as the apical phones [ɿ] and [ʊ] respectively. If the vowel is tense, then the allophone is tense and vice versa.

- 95. zu<sup>33</sup> ‘barley’
- 96. su<sup>33</sup> ‘guard; watch over’
- 97. dzu<sup>33</sup> ‘wither’
- 98. tsɿ<sup>33</sup> ‘time (for something)’
- 99. ts<sup>h</sup>ɿ<sup>33</sup> ‘grieve’
- 100. ts<sup>h</sup>ʊ<sup>33</sup> ‘sit’

They are realized as the close, front unrounded phone [i] and the near-close, back unrounded phone [o] in other environments. If the vowel is tense, then the allophone is tense and vice versa.

- 101. ni ‘you’
- 102. ʔi<sup>44</sup> ‘high proof’
- 103. mo<sup>21</sup> ‘horse’
- 104. fo<sup>21</sup> ‘deceive’
- 105. to<sup>44</sup> ‘gather’

/u/ is realized phonetically as:

- a. [ə] / alveolar consonants \_\_\_\_\_
- b. [u] / \_\_\_\_\_

/u/ is realized phonetically as:

- c. [ə] / alveolar consonants \_\_\_\_\_
- d. [u] / \_\_\_\_\_

<sup>7</sup> Note that the younger generation of Yáo'ān Central Yi speakers pronounces the [ɤ] with less friction.

The close back unrounded phoneme /u/ moves to the center, when following the alveolar consonants and is realized as the mid central phone [ə]. If the vowel is tense then the allophone is tense and vice versa.

- 106. tshə<sup>21</sup> ‘able’
- 107. tə<sup>33</sup> ‘fall; drop’
- 108. dzə<sup>33</sup> ‘both; couple’
- 109. dɛ̞<sup>44</sup> ‘support.a.family’
- 110. tshɛ̞<sup>44</sup> ‘peck’

It is realized as the close back unrounded phone [u] in other environments. If the vowel is tense, then the allophone is tense and vice versa.

- 111. mu<sup>55</sup> ‘incubate’
- 112. yu<sup>21</sup> ‘live’
- 113. xu<sup>21</sup> ‘spray; water (verb)’
- 114. bu<sup>44</sup> ‘idol’
- 115. ku<sup>66</sup> ‘husk; peel’

/æ/ is realized phonetically as:  
and /ɛ/ \_\_\_\_\_

- a. [ɛ] / un-aspirated alveolar plosives, the palatal /j/
- b. [æ] / \_\_\_\_\_

When the near-open front unrounded phoneme /æ/ occurs following an un-aspirated alveolar plosive, the palatal consonant /j/ or /ɟ/, it is realized as the open-mid front unrounded phone [ɛ].

- 116. tɛ<sup>33</sup> ‘pretty’
- 117. dzɛ<sup>33</sup> ‘but’
- 118. xɛ<sup>33</sup> ‘house’
- 119. jɛ<sup>55</sup> ‘then; so; and’
- 120. tʃɛ<sup>21</sup> PFV
- 121. tɛ<sup>33</sup> ‘plant’

It is realized as the phone [æ] in other environments.

- 122. tshæ<sup>33</sup> ‘lard’
- 123. p<sup>h</sup>æ<sup>33</sup> ‘gray; blue’
- 124. xæ<sup>21</sup> ‘take’
- 125. læ<sup>55</sup> ‘exchange’
- 126. væ<sup>33</sup> ‘laugh’

The allophone [ɛ] does not have a tense equivalent. The tense vowel /æ/ contrasts with the lax vowel /ɛ/ and its allophone [ɛ].

- |                                       |  |
|---------------------------------------|--|
| 127. tɛ <sup>33</sup> ‘pretty’        | tɛ̞ <sup>44</sup> ‘narrow’                       |
| 128. tɛ <sup>33</sup> ‘plant’         | tɛ̞ <sup>66</sup> lɛ̞ <sup>21</sup> ‘woodpecker’ |
| 129. kɛ̞ <sup>55</sup> ‘sweat’ (verb) | kɛ̞ <sup>66</sup> ‘bury; dig’                    |
| 130. næ <sup>21</sup> ‘near’          | nɛ̞ <sup>21</sup> ‘sew’                          |
| 131. ʔæ <sup>33</sup> ‘call’          | ʔɛ̞ <sup>44</sup> ‘preserve with salt’           |
| 132. bæ <sup>33</sup> ‘serve’         | bɛ̞ <sup>44</sup> CLF (sharp items)              |

The diphthong /iɛ/ is always preceded by a bilabial, post-alveolar or velar (never an alveolar) sound. These sounds can be plosives, fricatives or nasals. It is interesting to note that, while it occurs after the voiceless post-alveolar fricative and affricates /ʃ, tʃ, tʃʰ/ the voiced equivalent /dʒ/ does not occur before the /iɛ<sup>33</sup>/ but rather occurs before the vowel /i/. Similarly, in this data, the voiceless fricative /x/ occurs before the diphthong /iɛ/, while the voiced equivalent /ɣ/ occurs only before the vowel /u/.

- /iɛ/ is realized phonetically as:
- a. [i] / [dʒ] \_\_\_\_\_  
[u] / [ɣ] \_\_\_\_\_
- b. [iɛ] / \_\_\_\_\_

When the diphthong /iɛ/ follows /dʒ/, it is realized as the vowel [i]; when it follows /ɣ/, it is realized as the vowel [u].

133. dʒi<sup>33</sup> ‘sago palm’  
134. ɣu<sup>33</sup> ‘count’

It is realized as the diphthong [iɛ] in other environments:

135. biɛ<sup>33</sup> ‘bottle; jar’  
136. tʃiɛ<sup>33</sup> ‘insert’  
137. p<sup>h</sup>iɛ<sup>33</sup> ‘slanted’  
138. xiɛ<sup>33</sup> ‘quarrel’  
139. giɛ<sup>33</sup> ‘place’

## 6. Consonants

### 6.1. Consonant Phoneme Inventory

Phonemically Yáo’ān Central Yi has 30 consonants each of which are produced with egressive lung air:

	Bilabial	Labio-dental	Alveolar	Post-alveolar	Palatal	Velar	Glottal
Vd. Plosives (voiceless) (voiceless aspirated)	b p p <sup>h</sup>		d t t <sup>h</sup>			g k k <sup>h</sup>	ʔ
Vd. Nasals (syllabic)	m		n ɳ			ŋ	
Vd. Fricatives (voiceless)		v f	z s	ʃ	j	ɣ x	
Vd. Affricates (voiceless) (voiceless aspirated)			dz ts ts <sup>h</sup>	dʒ tʃ tʃ <sup>h</sup>			
Labial-velar Approximant	w						
Lateral Approximant			l ~ ɭ				

The plosives have a three-way contrast in voice onset timing with the addition of the feature aspiration. Many Yi languages have pre-nasalized voiced plosives. However, pre-nasalization on the voiced plosives for Yáo'ān Central Yi have, thus far, not been noted.

- |      |                          |                                    |   |
|------|--------------------------|------------------------------------|---|
| 140. | bɛ <sup>44</sup> 'say'   | pe <sup>33</sup> 'do'              | p <sup>h</sup> e <sup>33</sup> 'half'   |
| 141. | da <sup>33</sup> 'drink' | ta <sup>33</sup> 'with'            | t <sup>h</sup> a <sup>33</sup> 'touch'  |
| 142. | ga <sup>33</sup> 'drag'  | ka <sup>33</sup> 'closely related' | k <sup>h</sup> a <sup>33</sup> 'extort' |

The nasals are distinguished from each other by place of articulation.

- |      |                                       |  |
|------|---------------------------------------|--|
| 143. | ma <sup>55</sup> 'flood' (rice paddy) | na <sup>55</sup> 'underlay'    ŋa <sup>55</sup> 'snap' |
|------|---------------------------------------|--|

The fricatives have a two-way contrast in voice onset timing with voicing being the contrasting feature.

- |      |                                 |                                       |
|------|---------------------------------|---------------------------------------|
| 144. | fɔ <sup>21</sup> 'deceive'      | vo <sup>21</sup> 'sell'               |
| 145. | xu <sup>21</sup> 'water' (verb) | yü <sup>21</sup> 'to be (in a place)' |

The grooved or sibilant fricatives have a two-way contrast in voice onset timing with voicing being the contrasting feature, while the affricates have a three-way contrast with voicing and aspiration being the contrasting features.

- |      |                               |  |  |
|------|-------------------------------|--|--|
| 146. | dʒi <sup>33</sup> 'sago-palm' | tʃjɛ <sup>33</sup> 'insert'                  | tʃ <sup>h</sup> jɛ <sup>33</sup> 'then'  |
| 147. | dza <sup>33</sup> 'have'      | tsa <sup>33</sup> 'one of several instances' | ts <sup>h</sup> a <sup>33</sup> 'person' |
| 148. | zɿ <sup>33</sup> 'go'         | sɿ <sup>33</sup> 'long'                      |  |

The Glottal stop is in contrast with the continuants /w/ and /j/.

- |      |                           |                           |
|------|---------------------------|---------------------------|
| 149. | ji <sup>33</sup> IMP      | ʔi <sup>33</sup> 'look'   |
| 150. | wo <sup>33</sup> 'fierce' | ʔo <sup>33</sup> 'winnow' |

## 6.2. Complimentary Distribution Rules for Consonants

The inventory of nasals includes the syllabic nasal, which assimilates to the point of articulation of the following sound.

- The syllabic /ŋ/ is realized as:
- [ŋ] / \_\_\_\_\_ bilabial consonants
  - [ŋ] / \_\_\_\_\_ labiodental consonants
  - [ŋ] / \_\_\_\_\_ velar consonants
  - [ŋ] / \_\_\_\_\_ alveolar consonants

The syllabic nasal is pronounced as a bilabial [ŋ] before bilabial consonants.

- |      |   |
|------|---|
| 151. | ŋ <sup>21</sup> biɛ <sup>33</sup> 'two' (classifier for bottle) |
| 152. | ŋ <sup>21</sup> puw <sup>55</sup> 'not dare'                    |

It is pronounced as a labiodental [ɱ] before labiodental consonants.

- |      |   |
|------|---|
| 153. | ŋ <sup>21</sup> vo <sup>21</sup> 'not sell'                     |
| 154. | ŋ <sup>21</sup> vi <sup>55</sup> gwu <sup>21</sup> 'two spoons' |

It is pronounced as a velar [ŋ] before velar consonants.

- |      |   |
|------|---|
| 155. | ŋ <sup>21</sup> xo <sup>33</sup> 'not collect'      |
| 156. | ŋ <sup>21</sup> kiæ <sup>44</sup> 'two' CLF (house) |

It is pronounced as an alveolar [ɲ] before alveolar consonants.

- |      |   |
|------|---|
| 157. | ŋ <sup>21</sup> t <sup>h</sup> ə <sup>33</sup> 'two' CLF (classifier for animals) |
| 158. | ŋ <sup>21</sup> za <sup>33</sup> 'not necessary'                                  |

The fricative lateral /ɬ/ is most evident in the language of the older generation. For the younger generation the voiced lateral /l/ is in free variation with fricative lateral.

159. ʔa<sup>21</sup>lɛ<sup>21</sup> ~ ʔa<sup>21</sup>ɬɛ<sup>21</sup> ‘a bit’  
 160. lo<sup>21</sup>buu<sup>33</sup>ma<sup>21</sup> ~ ɬo<sup>21</sup>buu<sup>33</sup>ma<sup>21</sup> ‘bull’  
 161. le<sup>33</sup> ~ ɬe<sup>33</sup> ‘come’  
 162. la<sup>33</sup>pɔ<sup>44</sup> ~ ɬa<sup>33</sup>pɔ<sup>44</sup> ‘thing’  
 163. /lɔ<sup>21</sup> ~ ɬɔ<sup>21</sup>/ ‘enough’

The labiodental /v/ can be in free variation with the labial-velar /w/, when it occurs before the vowel /u/. In any context the /w/ is pronounced with a significant degree of friction.

164. vo<sup>21</sup>ji<sup>21</sup> ~ wo<sup>21</sup>ji<sup>21</sup> ‘hate; irritate’

## 7. Phonemic Representation

### 7.1. Phonemic Representation of Vowels

The Yao’an Central Yi language can be represented using 35 symbols. The seven vowels that need to be represented with symbols are:

165. /i/ <i>, /u/ <u>, /o/ <o>, /u/ <e>, /e/ <ei>, /ae/ <ae>, /a/ <a>  
 166. A tense vowel can be represented without adding any other symbols. Tense vowels are the regular vowels followed by an <x>.<sup>8</sup>  
 /i/ <ix>, /u/ <ux>, /o/ <ox>, /u/ <ex>, /e/ <eix>, /ae/ <aex>, /a/ <ax>  
 167. The diphthongs can be represented without adding any other symbols as:  
 /e/ <ie>, /ɛ/ <yae><sup>9</sup>, /a/ <ia>, /a/ <iax>, /o/ <iu><sup>10</sup>, /o/ <iux>  
 168. High tone /<sup>55</sup>/ can be represented with the <l>; the mid tone /<sup>33</sup>/ can be left unmarked; low tone /<sup>21</sup>/ can be represented with the <r>.

### 7.2. Phonemic Representation of Consonants:

The 28 consonants that need to be represented with a symbol are:

169. /b/ <bb> /p/ <b>, /p<sup>h</sup>/ <p>  
 170. /d/ <dd>, /t/ <d>, /t<sup>h</sup>/ <t>  
 171. /g/ <gg>, /k/ <g>, /k<sup>h</sup>/ <k>  
 172. /m/ <m>, /n/ <n>, /ŋ/ <ng>  
 173. /v/ <v>, /f/ <f>  
 174. /z/ <ss>, /s/ <s>  
 175. /ʃ/ <x>  
 176. /j/ <y>  
 177. /ɣ/ <hh>, /x/ <h>  
 178. /dz/ <zz>, /ts/ <z>, /ts<sup>h</sup>/ <c>

<sup>8</sup> The symbol <x> is also used to represent the sound /ʃ/ as it does in Mandarin pinyin. However, no ambiguity exists because, as a consonant, it is always syllable initial and, as a marker of tense, it is always syllable final.

<sup>9</sup> The lax equivalent /æ/ never occurs following the palatal /j/ and /i/—i.e. the <y>—so the vowel /ɛ/ does not need to be marked as a stressed vowel with the <x>; it is always the stressed version in that context.

<sup>10</sup> The diphthong /io/ is written as <iu> rather than as <io> to be consistent with the Mandarin Roman alphabet.



179. /dʒ/ <jj>, /tʃ/ <j>, /tʃʰ/ <q>  
 180. /w/ <w>  
 181. /l ~ ɭ/ <l>

The vowels and consonants written in context:

- |  |   |                                |
|--|---|--------------------------------|
| 182. ni <sup>33</sup> <ni> ‘day’   | ni <sup>44</sup> <nix> ‘heart’                    |                                |
| 183. bu <sup>33</sup> <bbe> ‘pen; stall; sty’  | bu <sup>44</sup> <bbex> ‘idol’                    |                                |
| 184. gu <sup>33</sup> <ggu> ‘beat’   | gu <sup>44</sup> <ggux> ‘gather’                  |                                |
| 185. me <sup>33</sup> <mei> ‘smear; plaster’   | me <sup>44</sup> <meix> ‘eye’                     |                                |
| 186. lo <sup>21</sup> <lor> ‘tea’  | lo <sup>21</sup> <loxr> ‘enough’                  |                                |
| 187. væ <sup>21</sup> <vaer> ‘big’   | væ <sup>21</sup> <vaexr> ‘write’                  |                                |
| 188. ʔa <sup>33</sup> ne <sup>33</sup> <anei> ‘grandma’                              | ʔa <sup>44</sup> ne <sup>44</sup> <axneix> ‘crow’ |                                |
| 189. ki <sup>55</sup> <gie> ‘sweat’  | ki <sup>44</sup> <gyae> (classifier for house)    |                                |
| 190. ts <sup>h</sup> a <sup>33</sup> <cae> ‘lard’                                    | ts <sup>h</sup> a <sup>33</sup> <ca> ‘person’     |                                |
| 191. bɛ <sup>44</sup> <bbeix> ‘say’  | pe <sup>33</sup> <bei> ‘do’                       | pe <sup>33</sup> <pei> ‘half’  |
| 192. da <sup>33</sup> <dda> ‘drink’  | ta <sup>33</sup> <da> ‘with’                      | ta <sup>33</sup> <ta> ‘touch’  |
| 193. ga <sup>33</sup> <gga> ‘drag’   | ka <sup>33</sup> <ga> ‘closely related’           | ka <sup>33</sup> <ka> ‘extort’ |
| 194. ma <sup>55</sup> <mal> ‘flood’ (paddy)  | na <sup>55</sup> <nal> ‘underlay’                 | na <sup>55</sup> <ngal> ‘snap’ |
| 195. vo <sup>21</sup> <vur> ‘sell’   | fo <sup>21</sup> <fur> ‘deceive’                  |                                |
| 196. yu <sup>21</sup> <hher> ‘be (location)’   | xu <sup>21</sup> <her> ‘water’ (verb)             |                                |
| 197. dʒi <sup>33</sup> <jji> ‘sago-palm’<br>ʃi <sup>33</sup> <xie> ‘house’           | tʃi <sup>33</sup> <jie> ‘insert’                  | tʃi <sup>33</sup> <qie> ‘then’ |
| 198. dza <sup>33</sup> <zza> ‘have’<br>ts <sup>h</sup> a <sup>33</sup> <ca> ‘person’ | tza <sup>33</sup> <za> ‘one of several times’     |                                |
| 199. zɿ <sup>33</sup> <ssi> ‘go’   | sɿ <sup>33</sup> <si> ‘long’                      |                                |
| 200. ji <sup>33</sup> <yi> IMP   | ʔi <sup>33</sup> <i> ‘look’                       |                                |
| 201. wo <sup>33</sup> <wo> ‘fierce’  | ʔo <sup>33</sup> <o> ‘winnow’                     |                                |

## 8. Intonation and Breath Groups

Within the scope of a sentence, a speaker often strings together several verb phrases, and intonation and breathing patterns take shape along the boundaries of these verb phrases. In addition, these sentence-medial boundaries are frequently marked grammatically with the particles /ʔa<sup>33</sup>/ or /mu<sup>55</sup>/.<sup>11</sup> Thus, within the sentence, as the boundary of each verb phrase is reached, intonation rises and the appropriate particle is pronounced. If a breath needs to be taken, it will be taken at this point. At the end of the sentence the intonation goes down and the final breath-group particle /ʔa<sup>33</sup>/ is pronounced.<sup>12</sup> It should be noted that tone does rise and fall with the rise and fall of intonation, but the purpose of this section is to focus on the overall sentence—or phrase contour—without further reference to tone.

<sup>11</sup> The /mu<sup>55</sup>/ is a topic marker, but it also functions as a relativizer for a subordinate clause.

<sup>12</sup> The unambiguous syllable structure for Yáo’ān Central Yi is a CV pattern so that words without a consonant onset, pronounced in isolation, all have a glottal stop /ʔ/ onset. However, within the context of a long utterance of normal speech, there is no clear boundary between one syllable and the following syllable, and the glottal stop is absent. Consequently the particles /ʔa<sup>33</sup>/ and /ʔa<sup>33</sup>/ are pronounced /a<sup>33</sup>/ and /æ<sup>33</sup>/ within the context of the sentence.

202. <sup>kɿ̌e³³tɕ³³ tsʰɿ²¹ nɔ³³xu³³ mu⁵⁵</sup>, <sup>kɿ̌e⁵⁵læ²¹pʰǐe⁵⁵ de³³ mu⁵⁵</sup>,  
The next morning, the demon.who.eats.people,
203. <sup>ja²¹ ni³³mo³³ le⁵⁵ tsɿ²¹ tsɿ⁵⁵ gu²¹ xo³³ a³³ mu⁵⁵</sup>, <sup>lɔ³³bo²¹ ɣu²¹ tɕ³³ æ³³</sup>,  
after her sister had been tickled to death, being upstairs,
204. <sup>dzo²¹ tɕ³³ a³³</sup>. <sup>Vi⁵⁵gu²¹dze²¹ do³³ mu⁵⁵ bɛ⁴⁴</sup>, <sup>"ʔa³³ma³³</sup>  
(it) was eating. Vilggerzzeir said, "Mother,
205. <sup>ni³³ ʔa³³tso³³ dzo²¹ a³³, bɛ⁶⁶ʔ"</sup> <sup>bɛ⁴⁴</sup>.  
"what, exactly, are you doing?" (she) said.
206. <sup>bɛ⁴⁴</sup>, <sup>"sɿ²¹fio³³ tsʰe³³li³³ le⁵⁵ ɲo³³ nja³³ ne³³pʰo³³ ɣu²¹ ta³³ dʒi²¹ a³³</sup>.  
(It) said, "On July the fourteenth I returned from your grandmother's home.
207. <sup>nɔ⁴⁴ku³³dɕ³³ a³³ ve³³ ʃi⁵⁵ le³³ æ³³</sup>, <sup>nɔ⁴⁴ku³³dɕ³³ dzo²¹</sup>, <sup>ʔe³³nɔ³³ bɛ⁴⁴</sup>.  
I'm eating the broad beans that I brought back." this way (it) said.
208. <sup>næ⁵⁵ bɛ⁴⁴</sup>, <sup>"ʔa³³ma³³, ni³³ ɲo³³ le⁵⁵ a²¹ do²¹ pʰja²¹ tɕ³³ gu²¹ la³³</sup>, <sup>bɛ⁴⁴</sup>.  
Then (Vilggerzzeir) said, "Mother, throw a little down for me," (she) said.
209. <sup>næ⁵⁵, pʰja²¹ tɕ³³ gu²¹ mu⁵⁵</sup>, <sup>lɛ²²ni³³tsɿ⁵⁵ a²¹ tɕ³³ pʰja²¹ tɕ³³ gu²¹ le³³ a³³</sup>.  
Then (the demon.who.eats.people) dropped a finger knuckle down to (Vilggerzzeir).
210. <sup>je⁵⁵</sup>, <sup>vi⁵⁵gu²¹dze²¹ do³³ mu⁵⁵</sup> <sup>dɔ²¹ ku²¹ a³³</sup>.  
So Vilggerzzeir consequently became afraid.
211. <sup>ku²¹ æ³³ mu⁵⁵</sup>, <sup>xa⁵⁵ tsʰɿ²¹ ni³³ tsʰɿ²¹ ni³³, ʔa²¹sɕ³³ se⁵⁵ne³³ pʰa³³tʰo³³ do³³ æ³³</sup>, <sup>ba⁵⁵fa²¹ ʃja²¹</sup>.  
Being afraid, all that day, (she) tried to think of how to escape.

## 9. Final Observations

When a pronoun is placed before a kinship term resulting in two contiguous /a/ vowels, one of the vowels is deleted or they are merged. However, no lengthening has been observed.

212.	ja <sup>21</sup> + ʔa <sup>21</sup> bo <sup>21</sup> → 3SG + father	ja <sup>21</sup> bo <sup>21</sup> 3SG father
213.	ja <sup>21</sup> + ʔa <sup>33</sup> ma <sup>33</sup> → 3SG + mother	ja <sup>21</sup> ma <sup>33</sup> 3SG mother
214.	ja <sup>21</sup> ʔa <sup>33</sup> ne <sup>33</sup> → 3SG + father's mother	ja <sup>21</sup> ne <sup>33</sup> 3SG father's mother
215.	ja <sup>21</sup> ʔa <sup>21</sup> po <sup>33</sup> → 3SG + paternal grandfather	ja <sup>21</sup> po <sup>33</sup> 3SG paternal grandfather
216.	ja <sup>21</sup> ʔa <sup>33</sup> ne <sup>33</sup> p <sup>h</sup> o <sup>33</sup> → 3SG + maternal grandmother	ja <sup>21</sup> ne <sup>33</sup> p <sup>h</sup> o <sup>33</sup> 3SG maternal grandmother
217.	ja <sup>21</sup> ʔa <sup>21</sup> p <sup>h</sup> o <sup>33</sup> p <sup>h</sup> o <sup>33</sup> → 3SG + maternal grandfather	ja <sup>21</sup> p <sup>h</sup> o <sup>33</sup> p <sup>h</sup> o <sup>33</sup> 3SG maternal grandfather
218.	ja <sup>21</sup> ʔa <sup>33</sup> ma <sup>33</sup> te <sup>55</sup> læ <sup>55</sup> → 3SG + mother's youngest sister	ja <sup>21</sup> ma <sup>33</sup> te <sup>55</sup> læ <sup>55</sup> 3SG mother's youngest sister
219.	ja <sup>21</sup> ʔa <sup>33</sup> ma <sup>33</sup> bæ <sup>33</sup> → 3SG + mom's younger sister	ja <sup>21</sup> ma <sup>33</sup> bæ <sup>33</sup> 3SG mother's third youngest sister
220.	ja <sup>21</sup> ʔa <sup>33</sup> ma <sup>33</sup> t <sup>h</sup> je <sup>33</sup> → 3SG + mom's younger sister	ja <sup>21</sup> ma <sup>33</sup> t <sup>h</sup> je <sup>33</sup> 3SG mother's second younger sister
221.	ja <sup>21</sup> ʔa <sup>33</sup> ko <sup>33</sup> → 3SG + older brother	ja <sup>21</sup> ko <sup>33</sup> 3SG older brother

The number 'ten' is /ts<sup>h</sup>e<sup>33</sup>/; however, it loses aspiration when combined with number two /ŋ<sup>21</sup>/ to form the number twenty, [ŋ<sup>21</sup>-tse<sup>33</sup>] 'twenty'.

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