# Taiwanese Cantillation Prosody and the Standard Tradition of Regulated Verse

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#### **Basic** issue

Tradition that Southern dialects are better for representing the sound of traditional poetry of the "Táng sound" (tángyīn 唐音) style.

## Known problems with the claim

Taking the common Taiwanese  $w\acute{e}nd\acute{u}$   $\dot{\chi}$   $\ddot{g}$  as an example, there are some sixteen initials heard, whereas medieval phonology requires no fewer than 35 and as many as 41. Taiwanese does not always distinguish distinct initials.

## Known problems with the claim

There are also various places where medieval categories are simply mixed up in Taiwanese — one medieval initial coming out different ways in Taiwanese — mostly among voiced initials.

Initial	字	Medieval phonology	Taiwanese
並母	湓	{ben-l}	phûn
	抱	{bauQ-1}	phāu
	浮	{bou-3b}	hû
	服	{buk-3b}	hok
	被	{biQ-3bx}	pī
	病	{beingH-3a}	pēng

Initial	字	Medieval phonology	Taiwanese
明母	每	{meiQ-la}	muín
	買	{meiQ-2a}	mái <sup>n</sup>
	蟆	{ma-2}	$m \hat{a}^n$
	馬	$\{maQ-2\}$	mán
	眉	{mi-3cx}	bî
	未	{miH-3a}	bī
	無	{muo-3c}	bû
	暮	{muoH-1}	þō

Initial	字	Medieval phonology	Taiwanese
定母	始由	{deik-4}	tėk
	弟	{deiQ-4}	tē
	停 頭	{deing-4} {dou-1}	thêng thiû
	茶	{dra-2}	chhâ
	宅	{dreik-2a}	thėk
	纏	{dran-3b}	tiân
	沉	{ drem-3 }	tîm

Initial	字	Medieval phonology	Taiwanese
來母	羅	{le-1}	lô
	老	{lauQ-1}	nớ <sup>n</sup>
日母	人 耳	{nyen-3b} {nyiQ-3d}	lîn ní <sup>n</sup>

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I want to report instead on the prosodic behavior observed in Taiwanese "cantillation" of Táng-era literature. This is long-term work in progress — I put it aside in the Fall of 2001, frustrated with technical problems, but have taken it up again this summer, now that my programming skills can be put to service here.

• yínsòng 吟誦 — melodic expression of literature

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- Chinese traditional *yinsòng* 吟誦 is highly ornamented.

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- "Cantillation" is not technically more correct, but is used for the florid melodic ornamentation of liturgical Hebrew.
- Intrinsic syllable-tones are elaborated into melody; the principle bears a likeness to the embellishment of written characters into  $sh\bar{u}f\check{a}$  書法.

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The "Pipá xíng" 琵琶行 of Bái Jūyì.

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The "Pipá xíng" 琵琶行 of Bái Jūyì.

Sung by Hsü I-t'ing 許禕娗 to a setting transmitted by Hóng Zénán 洪澤南.

# 潯陽江頭夜送客

sîm-iông-kang-thiû iā-sòng-khek

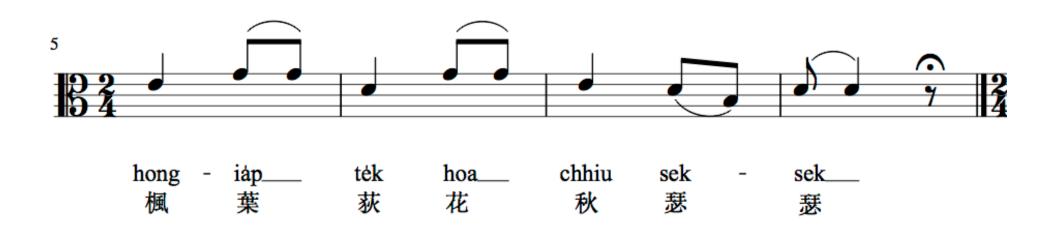
Seeing off a guest by night at Sîmiông River's edge —



# 楓葉荻花秋瑟瑟

hong-iap tek-hoa chhiu sek-sek

'Seksek' in the autumn air went sweetgum leaves, went silver-grass blossoms —



### 主人下馬客在船

chú-lîn hā-mán khek chāi-sôan

The host dismounted; at boatside was the guest —



## 舉酒欲飲無管弦

kú-chiú iok-ím bû-kóan-hiân

They raised their wine to drink; no flutes or strings there were —



### 醉不成歡慘將別

chuì put-sêng-hoan chhám chiong-piat

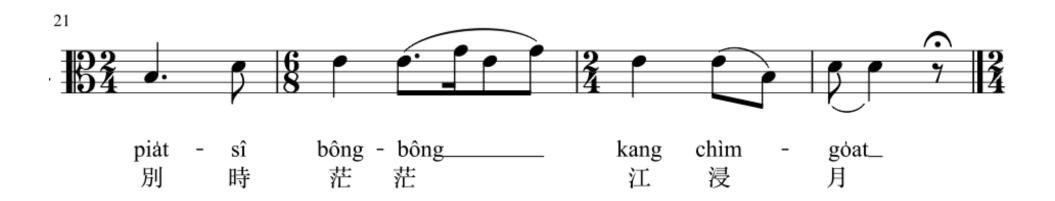
Drunk, but not to the point of happiness — miserable at parting —



#### 別時茫茫江浸月

piat-sî bông-bông kang chìm-goat

Vast it seemed, at parting — river drenched moon —



### 忽聞水上琵琶聲

hut-bûn suí-siōng pî-pâ-seng

Suddenly was heard the sound of a lute on the waters —

25



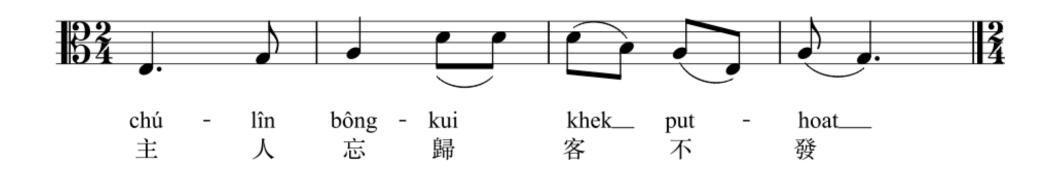
p. 40

### 主人忘歸客不發

29

chú-lîn bông-kui khek put-hoat

The host forgot about going back; the guest did not set off —



## **Segmentals**

Segmentals (Roman-letter portion of transcribed language)

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What about rhyming?

Shānshè words (medieval  $\{-an\}/\{-at\}$ ) rhyme imperfectly

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弦hiân

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別 piat

月 goat

聲 seng

發 hoat

 $Sh\bar{a}nsh\hat{e}$  words (medieval  $\{-an\}/\{-at\}$ ) rhyme imperfectly

船弦		sôan hiân		chuán xián
別		piat		bié
月		goat		yuè
芦	seng		shēng	
發		hoat		fā

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聲發	seng	hoat	shēng	fā
絕		choat		
氨欠		hiat		

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月		goat		yuè
聲發	seng	hoat	shēng	fā
絕		choat		jué
歇		hiat		xiē

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聲發	seng	hoat	shēng	fā
絕		choat		jué
宏		hiat		xiē

Just as in Mandarin. (In fact Mandarin does better on jué/xiē.)

"Accommodated" rhyming (xiéyùn 叶韻)

自言本是京城女 lú		今年歡笑復明年liân	
家在蝦蟆陵下住	chū	秋月春風等閒度	tū
十三學得琵琶成 sêng		弟走從軍阿姨死 sú	
名屬教坊第一部	рū	暮去朝來顏色故	kù
曲罷曾教善才服 hok		門前冷落車馬稀hi	
妝成每被秋娘妒	tù	老大嫁作商人婦	hū
五陵年少爭纏頭 thiû		商人重利輕別離lî	
一曲紅綃不知數	sù	前月浮梁買茶去	khù
鈿頭雲篦擊節碎 suì			
血色羅裙翻酒污	ù		

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度 to => tū

\*數 sò => sù

故 kờ => kù

# Tone in rhyming

住 部 妒 數 污 度 故 婦 去 chū pū tù sù ù tū kù hū khù

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Yīnqù tone (-ū)

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Yet readers have continued to accept them as a single category for poetic purposes, as have poets, even though they sound different.

### When did people start doing that?

住 部 妒 數 污 度 故 婦 去 pū tù sù ù tū kù chū hū khù

住 部 妒 數 污 度 故 婦 去 chū pū tù sù ù tū kù hū khù

Probably by Bái Jūyì's own time!

 住
 部
 數
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 度
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 去

 chū
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 去聲
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Bái himself rhymes two *shǎngshēng* words into a *qùshēng* rhyming block — both are examples of words that have moved between tone categories as a result of the tone split that gave us -ù and -ū.

This shows us that the tone-split we see in Taiwanese was already present in Bái's language — like modern poets, he rhymed in an accent whose tones were different from the way he spoke.

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## Tonal prosody

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# Tonal prosody (J = 1.0)

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1	2	3	4	5	6	7
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Syllables in different tones are also not the same duration.

tone avg. duration 1.3

1.0

tone	avg. duration
0	1.3
yīnpíng	1.2
yángpíng	1.3
•	1.0
yīnshǎng	1.0
yīnqù	1.0
yángqù	1.0
yángrù	1.0
yīnrù	1.0

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yángqù	1.0
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yīnrù	1.0

Distinct tendency to prolong *ping* syllables overall, and particularly the *yángping*.

tone	avg. duration
Ο	1.3
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yángping	1.3
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yángqù	1.0
yángrù	1.0
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How does that relate to the relative length of different positions?

place: 1 2 3 4 5 6 1.0 1.7 1.0 1.4 1.0 1.0 1.8

0.9 0.9 0.8 0.9 0.8 1.0 1.6

place: 1 2 3 4 5 6 1.0 1.7 1.0 1.4 1.0 1.0 **1.8** 

0.9 0.9 0.8 0.9 0.8 1.0 1.6

place: 1 2 3 4 5 6 7

0 1.0 1.7 1.0 1.4 1.0 1.8

1.0 0.9 0.9 0.8 0.9

Final syllable, regardless of tone, tends to be prolonged.

8.0

1.6

1.0

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Final syllable tends to be prolonged.

Caesura-positions 2 & 4 are longer in *ping* tones.

Inner (positions 2-6) zè tones are all slightly shorter on average.

place:	1	2	3	4	5	6	7
0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
yīnpíng	1.0	1.6	1.0	1.2	1.0	1.1	1.9
yángpíng	1.1	1.7	1.0	1.6	1.0	0.9	1.8
•	1.0	0.9	0.9	8.0	0.9	8.0	1.6
yīnshǎng	1.0	1.3	0.9	8.0	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	0.8	0.8	8.0	1.1	8.0	1.8
yīnrù	1.0	0.6	0.8	8.0	8.0	0.8	1.7
yángrù	1.2	0.8	0.9	0.8	8.0	0.7	1.5

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•	1.0	0.9	0.9	0.8	0.9	0.8	1.6
yīnshǎng	1.0	1.3	0.9	0.8	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	0.8	0.8	0.8	1.1	0.8	1.8
yīnrù	1.0	0.6	0.8	0.8	0.8	0.8	1.7
yángrù	1.2	8.0	0.9	8.0	8.0	0.7	1.5

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0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
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yīnshǎng	1.0	1.3	0.9	0.8	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	0.8	8.0	0.8	1.1	8.0	1.8
yīnrù	1.0	0.6	8.0	8.0	8.0	8.0	1.7
yángrù	1.2	0.8	0.9	8.0	8.0	0.7	1.5

These generalizations hold for most individual tones

place:	1	2	3	4	5	6	7
0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
yīnpíng	1.0	1.6	1.0	1.2	1.0	1.1	1.9
yángpíng	1.1	1.7	1.0	1.6	1.0	0.9	1.8
•	1.0	0.9	0.9	8.0	0.9	8.0	1.6
yīnshǎng	1.0	1.3	0.9	8.0	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	0.8	8.0	8.0	1.1	8.0	1.8
yīnrù	1.0	0.6	0.8	8.0	8.0	0.8	1.7
yángrù	1.2	0.8	0.9	8.0	8.0	0.7	1.5

These generalizations hold for most individual tones, though position-4 *yīnpíng* looks doubtful here. (More data needed.)

place:	1	2	3	4	5	6	7
0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
yīnpíng	1.0	1.6	1.0	1.2	1.0	1.1	1.9
yángping	1.1	1.7	1.0	1.6	1.0	0.9	1.8
•	1.0	0.9	0.9	8.0	0.9	8.0	1.6
yīnshǎng	1.0	1.3	0.9	8.0	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	8.0	8.0	8.0	1.1	8.0	1.8
yīnrù	1.0	0.6	8.0	8.0	8.0	8.0	1.7
yángrù	1.2	8.0	0.9	8.0	8.0	0.7	1.5

Some prolongation in position-2 yīnshǎng, too.

place:	1	2	3	4	5	6	7
0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
yīnpíng	1.0	1.6	1.0	1.2	1.0	1.1	1.9
yángpíng	1.1	1.7	1.0	1.6	1.0	0.9	1.8
•	1.0	0.9	0.9	8.0	0.9	8.0	1.6
yīnshǎng	1.0	1.3	0.9	8.0	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	8.0	8.0	8.0	1.1	8.0	1.8
yīnrù	1.0	0.6	8.0	8.0	8.0	8.0	1.7
yángrù	1.2	8.0	0.9	8.0	8.0	0.7	1.5

Some prolongation in position-2 yīnshǎng, too.

Are all cases of prolongation basically the same?

place:	1	2	3	4	5	6	7
0	1.0	1.7	1.0	1.4	1.0	1.0	1.8
yīnpíng	1.0	1.6	1.0	1.2	1.0	1.1	1.9
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•	1.0	0.9	0.9	8.0	0.9	0.8	1.6
yīnshǎng	1.0	1.3	0.9	8.0	1.0	0.9	1.5
yīnqù	1.0	0.6	0.9	0.6	0.9	0.9	1.6
yángqù	1.0	8.0	8.0	8.0	1.1	8.0	1.8
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Some prolongation in position-2 yīnshǎng, too.

Are all cases of prolongation basically the same? (no)



#### Percentages of melismatic and non-melismatic syllables

("melisma": more than one note to a syllable)

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("melisma": more than one note to a syllable)

tone	melis.	matic	non-melismatic	
	fall	rise		
yīnpíng	26.4	1.4		
yángpíng	5.1	52.6		
yīnshǎng	44.7	6.6		
yīnqù	30.4	0.0		
yángqù	25.8	0.0		
yīnrù	43.8	1.4		
yángrù	27.5	0.0		

("melisma": more than one note to a syllable)

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yīnrù	43.8	1.4	
yángrù	27.5	0.0	

Yángpíng has strongest tendency to melisma.

("melisma": more than one note to a syllable)

tone	melismatic		non moliametic
	fall	rise	non-melismatic
yīnpíng	26.4	1.4	72.2
yángpíng	5.1	52.6	42.3
yīnshǎng	44.7	6.6	48.7
yīnqù	30.4	0.0	69.6
yángqù	25.8	0.0	74.2
yīnrù	43.8	1.4	54.8
yángrù	27.5	0.0	72.5

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Yángpíng has strongest tendency to melisma.

Other tones, if melismatic, normally fall; yángpíng rises.

("melisma": more than one note to a syllable)

tone	melismatic		non moliametic
	fall	rise	non-melismatic
yīnpíng	26.4	1.4	72.2
yángpíng	5.1	<b>52.6</b>	42.3
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yángrù	27.5	0.0	72.5

Are yīnshǎng and yīnrù melisma significant? (More data needed.)

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- Other matters, requiring further data

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- Even in a non-regulated poem, the *ping-zè* distinction is expressed as a length-distinction especially at the caesura but also in general.
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- Other matters, requiring further data and historicity unknown:

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  - Line-feet tend to be quite prolonged, regardless of tone.

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- Other matters, requiring further data and historicity unknown:
  - Line-feet tend to be quite prolonged, regardless of tone.
  - Initial syllable is not shortened in *zè*-tones.
  - Shǎngshēng in position 2 appears somewhat prolonged.

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Tonal ornamentation is the primary expression of prosody, and is imposed even on compositions entirely outside of regulated praxis.

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- Analyze with scripting language (Python 3).

# End