The Gelao languages: Preliminary classification and state of the art

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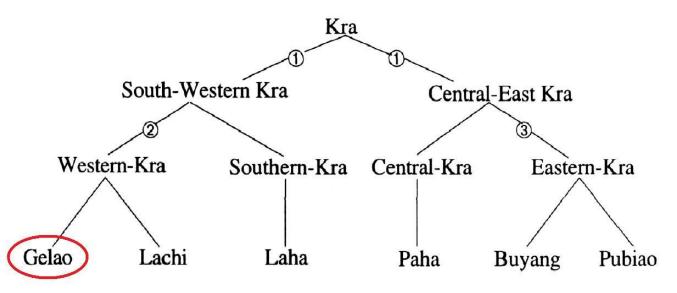
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Gelao's position in Kra-Dai

Kra-Dai (*Tai-Kadai*): primary branches

- Tai
- Hlai
- Ong Be
- Kam-Sui
- Kra



Source: Ostapirat (2000)

Goals of this talk

- Give a demographic overview of a little-known, but very important, language group
- Put together linguistics, anthropology, and history (mostly in Chinese) to get the "big picture"
- Propose a new preliminary internal classification of Gelao that takes recent data (post-2000) into account
- Explore some of Gelao's interactions with neighboring languages
- Explain why Gelao is in urgent need of more scholarly attention

Why Gelao?

- Why Gelao deserves much more attention in Kra-Dai studies:
 - 1. Phylogenetic position: Divergent within KD
 - Internal diversity: Many distinct varieties, most likely around 10 languages (mutually unintelligible lects)
 - 3. Historical importance: Major ethnic group in Chinese historical sources; known as Geliao 仡僚, etc.
 - 4. Large present-day ethnic presence: Ethnic population of 500,000; speaker population: < 6,000.
 - 5. Language endangerment. All Gelao varieties (except Central Gelao and Judu Gelao) are moribund with < 50 speakers left; fieldwork is extremely urgent.

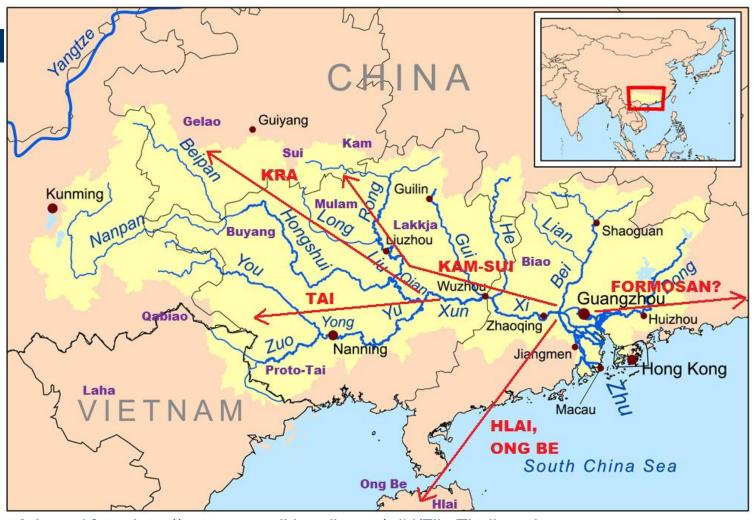
Internal diversity

- Gelao is by far the most internally diverse group of Kra languages.
- Remaining 3 Kra groups: relatively little internal variation
 - Buyang cluster (6 langs.): Paha, Ecun, Langjia, Rongtun,
 Qabiao, En (Nung Ven)
 - Lachi cluster: Flowery, Chinese, Pocket, Red, Long-Haired, Black, White groups
 - Laha cluster (2 langs.): Wet Laha, Dry Laha

Origins

- Gelao homeland: west-central Guizhou province, SW China
- Guangxi, Yunnan, and Vietnam populations: recent arrivals during the Qing Dynasty (1644-1911) due to civil unrest
- Early Gelao dispersal: upstream migration along the Beipan
 River 北盘江 watershed
- Dispersal of the Buyang (also Kra speakers): upstream along the Nanpan River 南盘江 watershed; evidence from toponyms with the prefix Yang-央 (Li Jinfang 1999).

Likely dispersal routes of Kra-Dai in the Pearl River watershed



Adapted from http://commons.wikimedia.org/wiki/File:Zhujiangrivermap.png

Gelao agriculture and material culture

- Pioneering wet / paddy agriculturalists who opened up fields
- Recognized as the "first farmers" by local neighboring groups (Li Jinfang 2006)
- Hanging coffins (also among the Buyang)
- Dental ablation (tooth removal)



Gelao dental ablation (Nicholas Tapp 2003)

Guizhou province: Recent incursions vs. Autochthonous populations

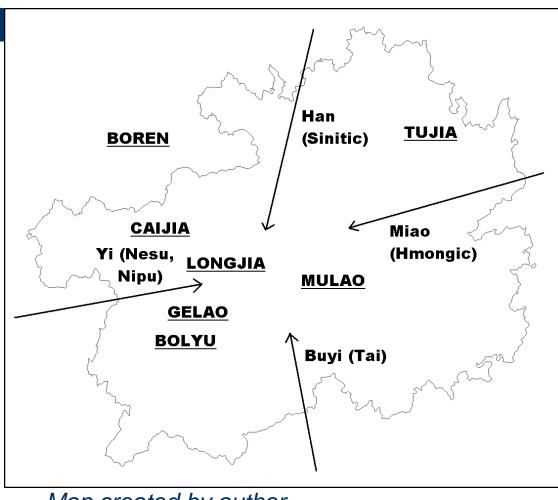
Recent arrivals

(< 1,000 B.P.):

- South: Buyi (Tai)
- West. Yi (Loloish)
- East: Miao (Hmongic)
- North: Han (Sinitic)

Native (> 1,000 B.P.):

- Gelao (Kra-Dai)
- Bolyu (Austroasiatic)
- Longjia, Caijia (TB)
- Tujia (TB); Boren?



Map created by author

Proposed classification

Preliminary classification proposed, based on **similarities** / **lexical isoglosses** tentatively identified in a Gelao vocabulary database (available upon request).

- 1. White Gelao has 2 branches: (1) "Core" (Judu, Moji, and Wantao), and (2) China-Vietnam border group
- 2. **Central Gelao** has 2 branches: (1) *Hakei* and (2) *Qau*, following Yumay Shen (2003). Each have little internal variation.
- 3. Red Gelao has at least 5 branches (most diverse):
 Hongfeng, Bigong, Houizitian, Mulao, and Vandu; China-Vietnam border ("Vandu") variety is divergent

Proposed classification: Red Gelao



Proposed classification: White Gelao & Central Gelao



Gelao database, 100 words

	А	В	С	D	E	F	G	Н	1	J	K	L	М	N	0
1		Proto-Kra	Hongfeng	Bigong	Houzitian	Mulao	Vandu	Judu	Moji	Wantao	Yueliangwan	Zhenfeng	Sanchong	Dagouchang	Wanzi
59 fl	lower	*hŋa C	ŋəu43	ŋou55	xa44 teŋ31 ŋəu44	по33	(xa55 xo55) xua55	hu35 ?o31	hua53	hwa55	la33 bi55 bi55	kəu35 hաղ42	kew33 hn53	ŋkau55 u55	ŋkau55
60 fr			-	[e31 va31	teŋ31 mi35	vai53	ntoŋ55 ntoŋ55	ma35	ma31 ma24	ma35	ma31	taŋ31 taŋ31	ntaŋ31	mei31	mei31
61 st		*p-ra A , *?uŋ A	?a43 ?lui55 wo31	qəш55 z əш33	laŋ31 wo44	qo53 y24, a55	qo35 la55 yı55	vu31 ŋ31	po31 oŋ31		qəu33 vu55 (Fy)	paŋ35 ŋ35	poŋ35	hrau31	əw33
62 w	vater	*?uŋ C	ŋ55	i55	սղ44	սդ33	aŋ35	ŋ33	oŋ53	շսդ55	m55	ŋ42	2m53	əw55	əw55
63 sa		*n₀o A *m-djan A,	nau31 ma43 lai31	no33 (ma55) lo31	nau44	ŋ.e31	դ, a դ 55	qə0 դ.iu31	ka31 njiu31	ka0 njiu31	n _s iu55	si42 ŋa42	րս31	n _a teaw33	ryteaw44
64 m			7au13		me13 ઢi44	kə33 va31	mo35 to55 se31	?աŋ31 dઢi31	oŋ53 dʑi31		z i55	ta31	nta31	mo21 tsu33	tsu33
65 m	nonth		lai31	[əw31		ŧa31		pu31 d&i31	bə31 d ≱ i31		≱ i55		nta31	thu33	thu44
66 sı	un	*(I-)wən A	ma43 yua43	[əw31 [əw13	2do31	kə33 zə31	ma35 lua55	la35 ?lu31	la24 lu31	la35 lu35	du35 vu33			mo21 lei33	klei33
67 d	ay	*(h)wən A	haŋ43 diuŋ31	vai33	haŋ31 toŋ44	ve31	la55 nji35	wuŋ31	≨i31 hoŋ31	ji31 wuŋ31	vu35 duŋ35	fe35	ze35	sen33	sen44
68 y	ear	*m-(p)ɣiŋ A	guai31	vlei31	ŋkuei31	tsə24	kui31	plei31	pləi31	plei31	pla-55	pi35	pzz35	plei33	plei33
69 sl	ky		?lau13 yui31	va31	a44 yui31	li24 fe31	u55 vu55	lwei31 lwei31	vəi31 vəi31	wei31 wei31 ?dun31	du35 zu55	to13 ji31		zuei55	vlei44
70 st	tar	*d-luŋ A	lei55 lau31	[a31 [b33 ga55 yew13	te44 zau44	tso53 zə31	ma35 ndu55	duŋ31 dai33	duŋ31 dai53	2dai55 ka0 pu55	duŋ35 dai33 mi31 sai55	tsa35 tu31 lu31	t§a35	lei31 tsu33	lei31 tsu33
71 cl	loud		hu55	(xəw13)		ve53	aŋ55 ua31	qə0 pu35	≱un31	tou31		pu33 mwn31	m53 ņa33	ten55 pa55	ten44 pau44
72 ra	ain	•jəl A	min31	mi(e)31	mei31	me31	mi55	man31	man31	man31	mən35	mau35	men31	mei33	mei44 zau44
73 w	vind	*gwjen A	yuaŋ31	vai31	xau35	fai33	a55 xəw31	vu31 juŋ31	bəi31 juŋ31	ba33 juŋ31	fai31	ve31	ve	ven55	ven44
74 fi	ire	*pui A	hye43	pia33	fe44	va31	a55 pi55	pi31, pji31	pi31	pi31	pi55	pai35	paj35	pai33	pai33

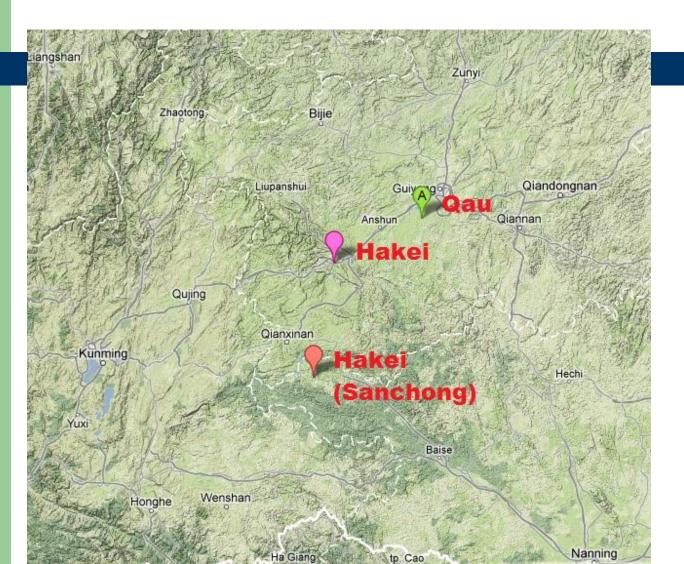
Most spoken varieties (least endangered)

- Total speakers of all Gelao languages: no more than 6,000 people (Zhou Guoyan 2004)
- Judu (Core White Gelao): more than 1,000; village cluster with the most Gelao speakers in China
- Hakei (Central Gelao; in Guizhou): 2,000 scattered across SW Guizhou
- Hakei (Central Gelao; in Sanchong, Guangxi): 300 in Sanchong village
- Qau (Central Gelao): 1,000 scattered across central Guizhou

White Gelao locations



Central Gelao locations

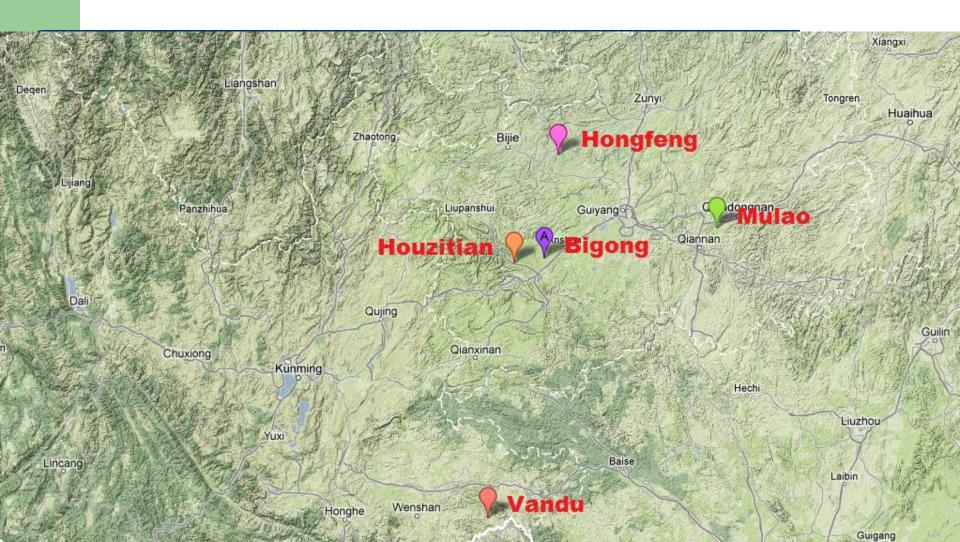


Red Gelao: most endangered

Red Gelao locations I visited in western Guizhou and SE Yunnan from July to August 2012:

- Hongfeng 红丰村, Pudi Township普底乡, Guizhou
 - about 15 fluent speakers
 - lateral retroflexes discovered; e.g., ma⁴³/o¹³ 'bird'
- Shajing Township 沙井乡, Guizhou
 - one (1) speaker (age 80+); Hongfeng variety
- Langdai Township 郎岱镇, Guizhou
 - one (1) speaker (age 88); last speaker of Houzitian variety
- Tiechang Township 铁厂乡, Yunnan
 - one (1) semi-speaker of ua³⁵ntei³¹; 50 speakers in Vietnam

Red Gelao locations



Last surviving speaker of Houzitian Red Gelao: Guo Yunxiu 郭云秀 (88)



Research priority: Red Gelao

- Red Gelao, compared to Central Gelao and White Gelao, is:
 - Most internally diverse: at least 5 mutually unintelligible varieties
 - Most endangered: all varieties have fewer than 50 speakers
- Crucial for reconstruction:
 Except for the China-Vietnam border variety ("Vandu"), all Red Gelao varieties (along with Paha) are the only Kra languages to have retained Proto-Kra retroflex distinctions, which appear as spirants in Red Gelao varieties.

Red Gelao: Proto-Kra retroflex distinctions preserved

- Proto-Kra *m-ţa A 'eye' >
 - Hongfeng pa43 siu43
 - Bigong *zəш33 zəш55*
 - Houzitian tə44 su44
 - Mulao *li33 zo31*
- Proto-Kra retroflex and stop series merge to a single stop series in most synchronic Kra languages.
- cf. Proto-Austronesian *maCa; (ma) ta in most other Kralanguages

Gelao influences: Tibeto-Burman

- Yi (Loloish) loanwords occur in Gelao (Li Jinfang 2006), but are "sporadic." Little/no Kra loanwords in Yi.
 - Yi > Gelao power structure: Yi chieftains ruled over the Gelao several hundred years ago, after military incursions into Guizhou (Zhou Guoyan 2004)
- Open rimes and disyllabic forms in Gelao also in the nearby TB branches Lolo-Burmese and Tujia
- Kra languages have final and sometimes circumfixed negation (e.g., Bigong Gelao ma³¹... p³³)
 - Typical of Tujia and Naga languages such as Mongsen Ao; rare in South China.

Gelao negation < Tibeto-Burman

Gelao (Wanzi) (Zhang 1993)

su³³ta³³ vu¹³ **a**³³

we go **NEG**

'We are not going.'

• Tujia (Northern) (Tujiayu Jianzhi:73)

this watermelon sweet **NEG**

'This watermelon is not sweet.'

Interestingly, also Mongsen Ao (Coupe 2007)

Gelao influences: Austroasiatic

- Bolyu (an isolated AA language with 1,000 speakers in W. Guangxi today) has some Gelao loanwords; they are neighbors with the Gelao.
- Examples: Bolyu *tshe1* 'person' (ultimately from Loloish), *?i3* 'he/she'; both not present in Bugan.
- Chinese historical records indicate that ethnic Bolyu (Lai 徐) had lived in west-central Guizhou – the Gelao homeland/nucleus
- However, the opposite (AA to Gelao) is much rarer.

Sporadic AA loans in Gelao: 'nose'

- Yueliangwan White Gelao bu35 mai31 'nose' (AA form not found in any other Kra language)
- Proto-Kra 'nose': *teŋ C and *hŋət D
- Compare Bugan pə55 mã31 'nose' < PMK (Shorto) *mu(u)h ~
 *muus 'nose'
- But, borrowings are by far from Gelao to Austroasiatic, not vice versa. Hence, the following power structure in W. Guizhou:
 - Yi (TB) > Gelao (KD) > Bolyu (AA)

Conclusion

- The Gelao migrated upstream to W. Guizhou to become one of the first agriculturalists there. 3 primary branches survive today: Central, White, Red
- Once widespread and important; now highly marginalized and endangered culture
- Should deserve more scholarly attention: diverse, historically important; archaic features such as Proto-Kra retroflexes
- Fieldwork is urgent, especially for Red Gelao: many varieties at the brink of extinction. Many varieties described in Zhang Jimin (1993) are now extinct.

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- Lucien Carroll
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- All informants in the field, and their friends and families

Gelao data sources

- Red Gelao
 - Hongfeng: Zhou Guoyan (2004), He Yancheng (2008)
 - Bigong: Li Jinfang (2006)
 - Houzitian: My own recordings (2012)
 - Vietnam Red Gelao: Jerold Edmondson recordings (1997)
- White Gelao
 - Judu: Zhou (2004), Li Jinfang (2006)
 - Moji: Guangxi Minority Languages (2008)
 - Wantao: Li Jinfang (2006)
 - Yueliangwan; Fengyan: Li Jinfang (2006)
- Green Gelao (Hakei)
 - Pomao: Zhou Guoyan (1999)
 - Sanchong: Shen Yumay (2003), Guangxi Minority Languages (2008)
- Qau
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