What defines Qiang-ness: A look from Southern Qiangic languages
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Abstract: In this paper, I study the empirical validity of the hypothesis of “Qiangic” as a subgroup of Sino-Tibetan, that is, the hypothesis of a common origin of thirteen little-studied languages of South-West China. This study is based on ongoing work on four Qiangic languages spoken in one locality (Mùlǐ Tibetan Autonomous County, Sìchuān), and seen in the context of languages of the neighboring genetic subgroups (Yí, Na, Tibetan, Sinitic). Preliminary results of documentation work cast doubt on the validity of Qiangic as a genetic unit, and suggest instead that features presently seen as probative of the membership in this subgroup are rather the result of diffusion across genetic boundaries. I furthermore argue that the four local languages currently labeled Qiangic are highly distinct and not likely to be closely genetically related. Subsequently, I discuss Qiangic as an areal grouping in terms of its defining characteristics, as well as possible hypotheses pertaining to the genetic affiliation of its member languages currently labeled Qiangic. I conclude with some reflections on the issue of subgrouping in the Qiangic context and in Sino-Tibetan at large.

1. Introduction

This paper examines the empirical validity of the Qiangic subgrouping hypothesis, as studied in the framework of the project “What defines Qiang-ness: Towards a phylogenetic assessment of the Southern Qiangic languages of Mùlǐ”.¹ The project focuses on three Southern Qiangic languages (Shǐxīng, Lizu [a.k.a. Ėrsǔ], Nàmùyǐ [a.k.a. Nânmùyī]) and on one Northern Qiangic language (Púmǐ [a.k.a. Prinmi]), as spoken in Mùlǐ Tibetan Autonomous County, Sichuān Province, People’s Republic of China.²

¹ This is a reworked version of a paper presented at the International Symposium on Sino-Tibetan Comparative Studies in the 21st Century, held at the Institute of Linguistics, Academia Sinica, Taipei, Taiwan on June 24-25, 2010. I am grateful to Guillaume Jacques and Alexis Michaud for useful comments on earlier drafts. I would also like to thank Sün Hóngkâi 孫宏開 and other participants of the symposium for their input and suggestions. The field research on which this paper is based was sponsored by the Agence Nationale de la Recherche (France) as part of the research project “What defines Qiang-ness? Towards a phylogenetic assessment of the Southern Qiangic languages of Mùlǐ” (acronym PASQi) (ANR-07-JCJC-0063).

² Mùlǐ Tibetan Autonomous County 木里藏族自治县, Written Tibetan (WT) mu li rang skyong rdzong. This county is part of Liángshān Yi Autonomous Prefecture 景山彝族自治州 in Sichuān Province, People’s Republic of China.

The Púmǐ dialect of Mùlǐ is spoken in the central part of the county. Púmǐ is the language of the ethnic majority of Mùlǐ and a local lingua franca. Púmǐ is further spoken in the neighboring Yányuán 盐源
These languages are studied in the context of the local Tibetan dialect (Kami Tibetan), the local Chinese dialect (South-Western Mandarin), and the local Na languages (with a special focus on the little-studied Laze language). The goals of the project are: (1) in-depth documentation of the selected languages; and on that basis (2) reflection on the validity of the Qiangic as a phylogenetic unit (i.e. stressing genetic relationship and common inheritance over surface similarities) and as a monophyletic unit (i.e. assuming a single common ancestor for all subgroup languages).

The paper is organized as follows. Section 1.1 provides a brief overview of the essential features and challenges of the Qiangic hypothesis (Qiangic as a genetic unit). Section 2 summarizes the first results of documentation work. It essentially focuses on the synchronic similarities observed between the languages under study. Based on these data, I argue that features presently held as probative of membership in the Qiangic subgroup are rather indicative of a linguistic area, as these features are also found in the local varieties of the languages of other genetic subgroups (e.g. the local Tibetan dialect) and are absent from their nearest relatives outside of the area. Given that the reason for salient similarities shared by the languages of Müli is demonstrably due to diffusion across genetic boundaries, I furthermore argue that, contrary to the received view, the validity of the Qiangic as a phylogenetic unit (i.e. stressing genetic relationship and common inheritance over surface similarities) and as a monophyletic unit (i.e. assuming a single common ancestor for all subgroup languages).

3 The term “Na languages” is an alternative to the term “Nàxī language” in Chinese linguistic classification. Both comprise, on the one hand, Nàxī proper, or in Chinese classification, the western dialect of the Nàxī language, including the patois of Dàyān Town 大研鎮, Lijiāng Plain 麗江坡, and Bāoshān Prefecture 宝山州, and, on the other hand, Moso, or in Chinese classification, the eastern dialect of the Nàxī language, including the patois of Yǒngníng Plain 永 Ning,  Bēiqū Plain 北溪 and Guābì 瓜别 (Hé and Jiāng 1985:104-116, Gāi and Jiāng 1990:70). The designation “Na” derives from the fact that the relevant ethnic groups all have “Na” as their group name in their respective autonyms (Yang 2006). Na languages are held to be transitional between Yi-Burmese and Qiangic languages, sharing lexical material with both groups, but lacking the extensive morphology of (Northern) Qiangic.

The Laze language (known as Müli Shuǐtián 木里水田 or Lārè 拉热) is spoken in Xiāngjiāo 頃脚 township of Müli. The hypothesis of a close relationship between Laze and Na languages essentially relies on the history, culture and self-awareness of the group (based on Guó and Hé 1994:6-7 and fieldwork by Alexis Michaud). Linguistically, it is manifested in important continuity between better researched Na languages (Nàxī and Moso) and Laze in terms of their respective phonological, morphological, lexical and structural organization (based on Huáng 2009 and data collected by Alexis Michaud). The assumption of a close genetic relationship between Laze and Na is equally supported by regular sound correspondences between these languages, as discussed in Jacques and Michaud (submitted). For more information on Laze, see Michaud (2009).
closely genetically related. Section 3 discusses the defining characteristics of Qiangic as an areal grouping. It also reviews alternatives for drawing genetic conclusions about the areal languages of uncertain affiliation, currently labeled Qiangic. Section 4 concludes this paper with some reflections on the issue of subgrouping in the Qiangic context and in Sino-Tibetan at large.

1.1. Qiangic as a genetic unit: Summary and challenges

Qiangic is the hypothesis of a common origin of thirteen, geographically adjacent and little-studied Sino-Tibetan languages of South-West China. Twelve of these languages are still spoken, one is extinct (Tangut).

The idea that some languages of the Chinese Southwest cohere to form a Sino-Tibetan subgroup can be traced to F. W. Thomas (1948:88-109), who proposed a “Hsiifan group” based on wordlists of Qiāng, rGyalrong, Pūmī, Ėrgōng, Ėrsū and Nāmūyī. The label “Qiangic”, under which the group is currently known, was introduced by the eminent Chinese linguist Sūn Hōngkāi in the 1960s as an umbrella term for the Qiāng, Pūmī, and rGyalrong languages (Sūn 1962:561; 1982). The Qiangic group was expanded in the 1970s, when new languages discovered and explored in pioneering work by Sūn Hōngkāi in Western Sìchuān (e.g. Shīxīng, Guīqiōng, Nāmūyī and Ėrsū) were also seen as Qiangic (Sūn 1983a, 1983b, 2001; further elaborated in Huáng 1991). Finally, Tangut was added to the group in the 1990s (Sūn 1991).

After Sūn (1983a, 2001), the thirteen Qiangic languages are subdivided, mainly on geographical grounds, into (1) a more phonologically and morphologically complex, and relatively better-studied northern branch, and (2) a less phonologically and morphologically complex, and virtually unexplored southern branch. The northern branch includes Qiāng proper, Pūmī, Mūyā, Ėrgōng (Horpa), rGyalrong, Lavrung and Tangut. The southern branch comprises Zhābā, Quēyū, Guīqiōng, Ėrsū, Nāmūyī and Shīxīng.

The Qiangic languages occupy a compact, contiguous geographical area in the borderlands of Tibet. Chinese historiographic sources claim that this area was historically populated by a host of nomadic tribes, traditionally labeled “Hsiifan” and closely linked to Tibetan culture and religion. The Qiangic hypothesis entails that Qiangic languages share a number of common features due to their descent from a (recent) common ancestor.

The Qiangic hypothesis essentially relies on shared lexical items and typological similarities, of which directional prefixes (topography-based spatial deixis) is de facto the essential feature probative of Qiang-ness (e.g. Matisoff 2004:105).

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4 For the history of Qiangic subgroup, see Sūn (2001:160-164).
5 In Chinese historiographic sources, the label “Hsiifan” mostly points to peripheral groups in the circumference of ethnic Tibet, sharing with ethnic Tibetan their religions and culture, but speaking their own languages. The same label is also occasionally used as a collective name for everything that is non-Chinese in the western periphery. The term is non-committal as to the genetic relationship between the groups in question, which, while most likely all Sino-Tibetan, are therefore for all purposes to be considered as not closely genetically related.
6 After Sūn (2001:166-170), a complete list of Qiangic features probative of the membership in this subgroup includes: (1) shared vocabulary, (2) large number of consonant clusters, (3) large consonant and vowel inventories, (4) uvular phonemes, (5) contrast between prenasalized and plain initials, (6) three medials: i, y, u, (7) vowel harmony (mostly in languages of the northern branch), (8) few or no consonantal
Yet, the Qiangic subgroup has been controversial since it was first proposed, for these four reasons:

(1) The restricted nature of the supporting evidence. This evidence is essentially limited to typologically common features, which are also found with considerable frequency in non-Qiangic languages of the area (see §2 for discussion). The probative value of the evidence is furthermore substantially outweighed by the conspicuous absence of cognacy among the shared systems. This has led some scholars to straightforwardly identify some putative Qiangic features as parallel developments (e.g. LaPolla 2003:30 for case marking and existential verbs) or areal phenomena (e.g. Shirai 2009 for directional prefixes).

(2) The small percentage of shared common vocabulary. While this feature, in contrast to the typological characteristics above, could provide more reliable support for the hypothesis of a common origin of these languages, the percentage of shared vocabulary is relatively small. It ranges from 25% between any two random Qiangic languages in more optimistic estimations (Sūn 1983a:103-105) to less than 20% in more conservative assessments (Huáng 1991:355). In addition, this percentage includes many widespread Sino-Tibetan cognates and there is considerable overlap with other subgroups of the area (most notably, Yi, Na, and Tibetan).7

(3) The absence of common innovations. The Qiangic subgroup has so far not been supported by common innovations, i.e. unique events common to the histories of all the languages in the subgroup, as distinct from (a) diffusion across language boundaries, (b) independent, parallel developments, (c) retention from an earlier state or, finally, (d) chance. Common innovations are held to be the only reliable basis for a linguistic subgroup (e.g. Thurgood 2003:5).8

7 To compare, a geographically adjacent non-Qiangic language Moso (Na) shares no less than 26.9% of cognates with Qiāng (estimation based on a sample of 1,017 basic vocabulary items, excluding 141 Chinese loanwords, in Gài and Jiāng 1990:71).

8 The only (phonological) innovation for the Qiangic subgroup proposed so far is brightening, that is, a strong tendency for the PST rhyme *a to be raised and fronted to -i or -e in Tangut and modern Qiangic languages, as proposed by James A. Matisoff (2004). Matisoff discusses this development essentially in relation to Tangut, but he also points out a number of parallels in modern Qiangic languages. He argues that this development is unusual in the Sino-Tibetan context, and it is therefore a valuable criterion for membership in the Qiangic group. At the same time, Matisoff (2004:350) notes that modern Qiangic languages do not display brightening to the same degree, and that the phenomenon is not regular, either within the same language or cross-linguistically. The following observations regarding this development can furthermore be made. Relatively few items shared by both Tangut and modern Qiangic languages have so far been proposed (33 words in total, Matisoff 2004). Of these, even fewer are shared by more than four Qiangic languages at a time. Conversely, those that are shared by most Qiangic languages, such as ‘salt’ (in 12 languages) and ‘rabbit’ (in 9 languages) appear to be good candidates for cultural loanwords, and are
The historical, ethnic and linguistic complexity of the geographical area occupied by Qiangic languages.

Historically, the area of distribution of the Qiangic languages lies in the zone of mixed Tibetan and Chinese influence, at the intersection of three superpowers that became dominant in the 7th and 8th centuries AD:

- the Tibetan Empire, instituted by Srong-btsan sgam-po (620-649 or 650)
- the Táng Chinese court (618-907)
- the Nánzhāo kingdom (730-902) with its capital in Dàlǐ, later succeeded by the Dàlǐ kingdom (937-1253), related to modern Yi and Bái groups.

These three superpowers were succeeded by a federation of small tribal states, kingdoms, and dependent districts (such as the kingdoms of Nangchen, Lithang, rGyalhang, or rMili), some of which maintained a de facto independent status until well into the 20th century.

Ethnically and linguistically, the area lies at the intersection of, most importantly, Bodic and Yi-Burmese, as well as some unclassified groups, such as Na and Bái. The area of distribution of Qiangic languages is characterized by long-standing multilingualism. Long-standing multilingualism suggests diffusion as key factor in the formation of the languages of the area. It equally poses an important challenge to the subgrouping of local languages as based on common innovations and shared cognates, as no objective criteria have yet been found either to distinguish independent innovations from shared retentions, or to factor out parallel developments or effects of diffusion (see Harrison 2003:232-239 for discussion).

Not surprisingly, in view of the problems above, the membership of the Qiangic subgroup is fluid and has many times been adjusted and remains undecided for some languages.

The Báimā language (also known as Báimā Tibetan) of Northern Sichuān and Southern Gānsū provinces was added to Qiangic in the 1980s, because it displays features hence inconclusive as to the genetic relatedness between the languages in question. Finally, this phenomenon is equally attested in non-Qiangic languages of the area, such as Na and Yi. For example, both ‘salt’ and ‘rabbit’ also display the effects of brightening in Nàxī and Moso as well as in Nosu (Northern Yi):

- ‘salt’, Nàxī and Moso, both tsho33; Nosu tshu23 (Zhū 2005:236);
- ‘rabbit’: Nàxī tho33le33, Moso tho33li33; Nosu thu23tu21 (Zhū 2005:162).

Almost all diagnostic words in Matisoff (2004) exhibit the effects of brightening in Nàxī and Moso. For example (based on Hé and Jiāng 1985), ‘to borrow’, PST *r/s-ŋ(y)a, Nàxī and Moso, both nǐ33 (ibid., p. 161); ‘to listen’, PST *g/r-na, Nàxī kho33mi33, Moso khoa33mi33 (ibid., p. 155); ‘moon’, PST *s/g-la, Nàxī xe33-mə33, Moso xe33-mi33 (ibid., p. 135); ‘nose’, PST *s-na, Nàxī ni55mə31, Moso nǐ33ga33 (ibid., p. 143).

Overall, raising of vowels is a characteristic feature of Northern Yi (Nosu), as compared to other dialects of this language, cf. Zhū (2005:130-131). To take some words held as evidencing brightening in Qiangic languages as examples, ‘to eat’ (PST *dzya): Southern Yi (Mòjiāng 墨江) dzo33, Western Yi (Wēishān 威山) dzo21, Central Yi (Wǔdīng 武定) dzo33, Northern Yi (Xīdè 喜德) dzu23 (Zhū 2005:288);

- ‘son’ (PST *za ≠ *tsa), respectively, zo21, zo21, zo33, zu23 (ibid, p. 220); ‘salt’ (PST *tsa): tsho23, tsho23bo33, tsho33, tshu23 (ibid., p. 236).
that are held to be typical of this subgroup, such as directional prefixes (Sūn 1980). Currently, opinions are split between Báimǎ being a separate Bodic language (e.g. Nishida and Sūn 1990, Sūn et al. 2007:207-223) and an aberrant Tibetan dialect (Huáng and Zhāng 1995, Zhāng 1994a, 1994b).

The relationship of the Tangut and rGyalrong languages to Qiangic is equally a matter of ongoing debate. LaPolla (2003:30), for instance, argues that the relation of rGyalrong to the Rawang and Kiranti groups is much clearer than to the Qiangic group, and that similarities shared by rGyalrong and Qiangic may simply be areal influence.9

The Nǎmūyī language, held as one of Southern Qiangic languages, is argued to be genetically related to Yí and Na languages, rather than to Qiangic languages (Lāmā 1994; Huáng 1997:13-15). This conclusion is essentially based on the large amount of related words between Yí, Na and Nǎmūyī.10 Notably, the same conclusion has been reached on the basis of historical, cultural, and anthropological evidence (Yáng 2006).

The Shīxīng language is likely to be related to Na languages, given that speakers of Shīxīng are considered by Nàxī historians as part of the Na ethnos (Guō and Hé 1994:8-9).11

All in all, the Qiangic hypothesis remains problematic. The two major interrelated challenges are: (1) establishing an objective foundation for subgrouping in an area that is historically, ethnically, and linguistically complex, and whose languages have not been previously documented; and (2) gathering sufficient evidence to generate and evaluate hypotheses related to the genetic affiliation of those local languages (currently held as Qiangic) that cannot be straightforwardly integrated into the neighboring genetic subgroups.

2. Qiangic as a genetic unit, as examined on the basis of four Qiangic languages of Mùlǐ

The project “What defines Qiang-ness” takes on the challenging task of assessing the validity of the Qiangic hypothesis. The approach is to focus on little-studied Qiangic languages spoken in one locality, Mùlǐ Tibetan Autonomous County, and to view these languages in the context of equally little-known local varieties of the Tibetan and Na languages.12 Given that one of the major challenges of the Qiangic hypothesis is the historical, ethnic and linguistic complexity of the area occupied by Qiangic languages, the choice of one locality allows to restrict to a manageable size the scope of contact

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9 Notably, three northern Qiangic languages, rGyalrong, Lavrong and Horpa-Shanzhaid (Érgōng or Dàofú 道孚 in different classifications) have been demonstrated by Jackson T.-S. Sun (2000a, 2000b) to be an independent and coherent subgrouping in its own right, namely, rGyalrongic.
10 Inferences that can be drawn from lexical comparisons of some local languages of uncertain affiliation with Yí and Na are complicated by the lack of well-defined diagnostic criteria to distinguish between Yí and Na groups, that share much lexical material. Hence some local languages of Mùlǐ, e.g. Nǎmūyī (Lāmā 1994; Huáng 1997:13-15) or Laze (Huáng forthcoming), are ambivalent between these two groups in terms of their respective shared vocabulary.
11 Notably, Sūn (2001:167) also points to a large percentage of shared lexical items between Shīxīng and Na languages, which he argues to be borrowings in Shīxīng. In a similar vein, Sūn interprets numerous lexical sharings between Ėrsū and Yí languages as results of contact (ibid.)
12 Another important local language, Nosu, is currently not included in the scope of the project.
situation and the number of involved languages in order to coherently assess the impact of both internal (genetic) factors and external (contact) factors. The choice of Múlì as the single locality to be studied is additionally supported by these factors: (1) Múlì displays one of the highest concentrations of Qiangic languages; combining within its borders several Southern Qiangic languages (Lizu, Nàmùzī, Shìxīng) and one Northern Qiangic language (Púmǐ); (2) Múlì is a historically stable administrative entity (the semi-independent kingdom of rMili), which guarantees recoverability of relevant sociolinguistic and historical information.

Múlì is a multi-ethnic and multi-lingual county. Speakers of the four Qiangic languages of Múlì are officially classified, together with the local ethnic Tibetans (Kāmi Tibetans), as members of the Tibetan nationality. Together, they account for 32.59% of the county population (Múlì Zàngzú Zìzhìxiàn Zhì Bīānzú Wēiyuánhui forthcoming). Their most important historical neighbors include Nosu (28% of the county population) and Na groups (Nàxī and Moso together 9.96%). Historically more recent newcomers to this area are Sinitic (South-Western Mandarin) (21.32%), Míao (6.96%), as well as Bùyī, Zhuàng, Bái and some other groups (altogether ca. 1.17%).

The project initially operated under the assumption that the four Qiangic languages of Múlì are closely genetically related. In line with practices of mainstream historical linguistics, the initial goals were accordingly set: (1) to stratify loanwords in the four studied languages from languages whose historical development is well documented and understood (most importantly in the areal historical and cultural context, Tibetan), (2) to find regular sound correspondences over sets of putative cognates, and (3) to search for common phonological and lexical linguistic innovations between the surveyed Qiangic languages.

In contrast to the original assumption of relatedness, the first results of documentation work reveal diversity as a salient feature of the Qiangic languages of Múlì. In fact, contrasts between the languages are so sharp that they cast considerable doubt on the assumed genetic relationship between them (see discussion below). This warrants a closer investigation of newly collected data to further evaluate this diversity, prior to proceeding with work that relies on the assumption of relatedness of the group.

The following subsections (2.1-2.4) discuss similarities between the four Qiangic languages of Múlì, as seen in the context of their most important genetic neighbors (Tibetan, Yí, Na, Sinitic). The proposed comparison is based, on the one hand, on available data on well-described varieties of Tibetan, Yí, Na and Sinitic, and, on the other hand, on newly collected data on the local Múlì varieties of these languages (for the time being, excluding the local variety of Yí). Lexical data are not included in the present overview, suffice it to say that the four languages share relatively few lexical items in their basic vocabulary. Overall, the percentage of shared lexical items is estimated around the customary Qiangic threshold of 20%, with cultural (Tibetan) lexicon accounting for a sizeable part of related words between the four languages.13

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13 Consider some examples from basic vocabulary: ‘man, person’: Púmǐ mᴀ51, Lizu tsho55, Nàmùzī tsho31, Shìxīng hɪ55; ‘food; rice’: Púmǐ bᴇ51, Lizu kʰæ55, Nàmùzī dzæ35, Shìxīng hɑo55. Some examples from more culturally oriented vocabulary include: ‘deity’ (WT lha), Púmǐ ɬa55, Lizu ɬæ35, Nàmùzī ɬæ35, Shìxīng ɡɪ33-ɬa55; ‘flag’ (WT ᵇa), Púmǐ tɕ24, Lizu tæ35, Shìxīng tɕ35. A side observation is that Tibetan loans in the
2.1. Similarities between the four Qiangic languages of Mûlî

The present list of similarities is not intended to be exhaustive or final, but rather represents work in progress that will have to be modified when more comparative data become available. The list was initially intended as an overview of all shared features between the four Qiangic languages studied in the project (Lizu, Nâmûzî, Pûmî, Shîxîng). Coincidentally, the shared features turned out to be essentially restricted to features postulated as characteristic of the membership in the Qiangic subgroup (such an overlap is indicated below as “Qiangic feature”). Notably, the list does not include such common features shared by the majority of local genetic subgroups (excluding only the later arrival into the area, Sinitic), as SOV or Noun-Adjective word orders. I have also omitted some relatively non-committal Qiangic features, such as “large consonant and vowel inventories”, especially because those of the four examined languages do not appear to be significantly larger than those of their generic neighbors.14 And in order not to detract from the main line of argument, illustrative examples are deferred to the appendix at the end of the paper.

Features shared by the four Qiangic languages of Mûlî include:

(1) Pronunciation of the vowel /u/ (in Pûmî ə) as a syllabic bilabial trill after bilabial and apical stops

(2) Uvular phonemes: (a) contrastive with velars, as in Lizu, Nâmûzî and Shîxîng, or (b) allophones of velar phonemes, as in Pûmî (Qiangic feature)

(3) Common principles of prosodic organization: tone systems characterized by culminativity—a restriction of not more than one pronounced lexical tone per prosodic word with one tonal assignment (mostly restricted to the first syllable of the word) affecting much or all of the prosodic word (Qiangic feature “tones”)

(4) Identical principles of word-formation, including: (a) extensive use of reduplication (Qiangic feature), (b) compounding and (c) affixation. The latter comprises:

(i) Kinship prefix a- (for older kin)

The Qiangic feature “case forms of personal pronouns” is not included in the present list, as in the surveyed languages, these forms are transparent combinations of a relevant personal pronoun and a case marker. For this reason, this feature is subsumed on the list under “case marking”. The Qiangic feature “reciprocal” is included on the list under “reduplication”.

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14 For example, Pûmî has a total of 42 initials (40 initial consonants and 2 consonant clusters) and 34 rhymes (7 oral vowels, 5 nasal vowels, 22 diphthongs). To compare, Nosu has 44 initial consonants and 10 rhymes (8 syllabics, 2 non-syllabics) (Lî and Mā 1985:83-84). Bâtâng 巴塘 'ba’ thang Tibetan has 48 initials (42 initial consonants, 6 consonant clusters) and 31 rhymes (9 oral and 8 nasal vowels, 5 diphthongs and 9 rhymes ending in a glottal stop) (Gészâng 1985:16, 20).
(ii) Diminutive suffix derived from the morpheme for ‘child’ or ‘son’ (Qiangic feature, non-related forms)
(iii) Gender suffixes for animals

(5) Case marking governed by empathy hierarchy (with, most importantly, agentive, animate patient, genitive and locative case markers) (Qiangic feature, non-related forms)

(6) Numeral classifiers (Qiangic feature, for the most part non-related forms, see §2.2 for discussion)

(7) Directional Prefixes (Qiangic feature, for the most part non-related forms)

(8) Past/non-past distinction (suppletive forms) in some high frequency verbs and nominalization markers (for the most part non-related forms)

(9) Multiple existential verbs (Qiangic feature, for the most part non-related forms)

All in all, similarities (phonological, morphological, syntactic) between the four languages are strikingly few. Furthermore, given the apparent non-relatedness of relevant markers in shared systems, the majority of similarities are symptomatic of parallel developments. The observed phenomena can also be interpreted as pattern-borrowings, that is, replications of the abstract organizational pattern of the model construction of an external source using suitable elements in the replica language (Matras and Sakel 2007). Put differently, the structural similarities observed between the four languages are likely to be instances of grammaticalization, where only the patterns of the other language are replicated (i.e. the organization, distribution and mapping of grammatical or semantic meaning), while the form itself is not borrowed. Overall, this type of grammaticalization is typical for linguistic areas.

2.2. Differences between the four Qiangic languages of Mùlī

The range of differences between the four surveyed languages is far more extensive and involves virtually all linguistic sub-systems. Differences can further be divided into two types: (1) overall dissimilarities (non-overlapping systems), and (2) dissimilarities among overlapping systems (non-cognate marking).

The former type of differences can be illustrated by distinct orders of demonstrative and noun in the four languages. The four Qiangic languages of Mùlī have no less than three distinct orders for demonstrative and noun, namely:15

(1) Dem-N (Pûmî and Lizu), e.g. Pûmî ʷu11tı55 m̥ə51 ‘that woman’, Lizu ku55-thẽ33# jæ33-qo63 ‘this child’

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15 Pûmî data are from Guillaume Jacques (p.c.) and Lù (2001); Lizu and Shîxîng data are from personal research; Nâmûzî data are from Huáng and Rênzêng (1991) and from personal research.
(2) N-Dem (Nàmùzī), e.g. ju\textsuperscript{31} tæ\textsuperscript{55}=ly\textsuperscript{55} ‘this house’

(3) Dem-N-Dem (Shìxīng), e.g. ha\textsuperscript{55} tō\textsuperscript{55}-pi\textsuperscript{55} ha\textsuperscript{55} ‘this story’, thi\textsuperscript{55} hĩ\textsuperscript{55}# thi\textsuperscript{63} ‘that man’.

Notably, Shìxīng also has an alternative order, N-Dem, as in pu\textsuperscript{65}-mi\textsuperscript{33} ha\textsuperscript{33} ‘this frog’, hĩ\textsuperscript{55} thi\textsuperscript{33} ‘that man’. There appears to be a semantic distinction between the two variant orders, with the latter rather more specifically denoting definiteness of the modified noun, e.g. bõ\textsuperscript{55}# phu\textsuperscript{33}-tɕi\textsuperscript{33}-tɕi\textsuperscript{55}# thi\textsuperscript{53} ‘the (or that) white yak’ (Chirkova 2009).\textsuperscript{16}

As to the latter type of differences (dissimilarities among overlapping systems), none of the overlapping structural features listed in §2.1, has cognate marking in all four languages (see the appendix at the end of the paper). In addition to the apparent non-relatedness of relevant markers, the structural features shared by the four languages vary widely with respect to specific semantic and syntactic contexts and the degree of grammaticalization per language. Let us take numeral classifier systems in the four languages as an example. (I will restrict the comparison to a more grammaticalized category of classifiers, namely sortal classifiers, i.e. those that individuate whatever they refer to in terms of the kind of entity that it is.) Based on the overall number of classifiers and their morphosyntactic environments and functions, the following patterns emerge.

Nàmùzī has the most developed system among the four languages. In terms of the overall number of sortal classifiers, Nàmùzī has most classifiers of the four compared languages. Some frequent forms include: (a) mo for people and large animals, (b) phæ for cattle, (c) jæ for small animals, (d) po for trees, plants, (e) ly, general classifier for inanimate entities. Classifiers in Nàmùzī can directly modify nouns, which use serves to increase precision of reference. This is to say that if a classifier occurs as the only determinative of the noun, it expresses singularity and referentiality (specificity or definiteness). For example, bu\textsuperscript{55}=phæ\textsuperscript{53} ‘(that, definite) yak’, nbrə\textsuperscript{31}=mo\textsuperscript{55} ‘(that, definite) wife, woman’. Finally, nouns in Nàmùzī cannot be modified by numerals without an accompanying classifier, and Nàmùzī classifiers are obligatory with both numerals and demonstratives.

Púmǐ also has relatively many sortal classifiers. For example, mj\textsuperscript{22}mo\textsuperscript{44} tɛ\textsuperscript{55}=tə\textsuperscript{55} ‘one beggar’, s\textsuperscript{31}k3\textsuperscript{11}ra\textsuperscript{11}dzu\textsuperscript{55} tɛ\textsuperscript{55}=tə\textsuperscript{55} ‘one stick’, ze\textsuperscript{55}pɛ\textsuperscript{55} t3\textsuperscript{11}=pɛ\textsuperscript{55} ‘one axe’. As a rule, Púmǐ classifiers cannot modify a noun without an accompanying numeral and numerals cannot modify a noun without an accompanying classifier. A classifier is not required with a demonstrative.

Quite dissimilar to the relatively well-developed classifier systems in Nàmùzī and Púmǐ, those of Lizu and Shìxīng are fairly restricted and consist each of only two shape-
based sortal classifiers. These two classifiers are furthermore only used with numerals and are not required with demonstratives.

In Lizu, the two sortal classifiers are: (1) kæ ‘strip’, a classifier for elongated objects, e.g. dzæ55 te33=kæ33 ‘river’, bra55 te55=kæ55 ‘one rope’; and (2) pu, a more general classifier, widely used with non-human and, more specifically, flat objects, e.g. ruæ55 te33=pu33 ‘one chicken’, nbu55-to33 te33=pu33 ‘one knife’. A numeral in Lizu does not require to be followed by a classifier, if the noun that it modifies is animate, e.g. ndzo53 te33 ‘one Chinese’, tsho55# ŋe53 ‘four people’. In the case of inanimate nouns, a classifier is not required with the numeral te53 ‘one’, e.g. se55-ʤu33-mé53 te53 ‘one log’.

Finally, the two sortal classifiers in Shìxīng are (1) the general classifier ku ‘item’, e.g. li35 na33-ku33 ‘two hands’, ʧi33-ʤ35# gu33-ku55 ‘nine pans’; and (2) the classifier for elongated objects rɛ̃ ‘strip’, e.g. l35-ʧi33# dʑi33=rɛ̃55 ‘one arrow’, qhɔɔ33-wu55# ni33-rɛ̃55 ‘two sticks’. A classifier in Shìxīng cannot modify a noun without a numeral, whereas the numeral dʑi55 ‘one’ can co-occur with nouns without a classifier, to denote indefiniteness and singularity. The following table summarizes the observed patterns:

<table>
<thead>
<tr>
<th></th>
<th>Number</th>
<th>Can a classifier modify a noun without a numeral? (Related function)</th>
<th>Can a numeral modify a noun without a classifier? (Related function)</th>
<th>Are classifiers obligatory with demonstratives?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nànwǔ</td>
<td>many</td>
<td>+ (singularity, definiteness)</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Púmí</td>
<td>relatively many</td>
<td>𐆻³⁷</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Lizu</td>
<td>2</td>
<td>some can (singularity, definiteness)</td>
<td>+ (mostly with animate nouns; numeral ‘one’, indefiniteness)</td>
<td>-</td>
</tr>
<tr>
<td>Shìxīng</td>
<td>2</td>
<td>-</td>
<td>+ (numeral ‘one’, indefiniteness)</td>
<td>-</td>
</tr>
</tbody>
</table>

Table 1. Number, morphosyntactic environments and functions of sortal classifiers in the four Qiangic languages of Mülü

The observed degree of variation between the four Qiangic languages of Mülü (both in terms of overall disparity of their respective lexical, phonological, morphological and syntactic organization and of scalability and non-cognacy of shared systems) is unusual for a low level subgroup, which Qiangic is purported to be, especially given the contiguity of the geographical area occupied by the four surveyed languages. Conversely, a comparable degree of variation is possible in geographically discontinuous groups. For instance, in relation to the order of demonstrative and noun and differences in classifier use as evoked above, comparable examples can be found, respectively, among Chin languages, which combine Dem-N, N-Dem and Dem-N-Dem orders within one group, Dryer 2008:41-42, and Sinitic languages. In the latter group, Cantonese exhibits a number of unusual characteristics in the syntax and semantics of its classifiers, such as the possessive classifier construction, which are not paralleled in other Sinitic languages (Matthews 17 Some isolated uses of classifiers modifying nouns without an accompanying numeral have been attested in traditional Púmí stories. Their precise meaning and function require further investigation.
18 Conversely, a comparable degree of variation is possible in geographically discontinuous groups. For instance, in relation to the order of demonstrative and noun and differences in classifier use as evoked above, comparable examples can be found, respectively, among Chin languages, which combine Dem-N, N-Dem and Dem-N-Dem orders within one group, Dryer 2008:41-42, and Sinitic languages. In the latter group, Cantonese exhibits a number of unusual characteristics in the syntax and semantics of its classifiers, such as the possessive classifier construction, which are not paralleled in other Sinitic languages (Matthews
to the observed diversity, the expectation would rather be that similar organization of these purportedly closely genetically related languages is reinforced through contact, as it is generally held that areal influence contributes to retaining ancestral characteristics (e.g. Dryer 2008:24). Alternatively, in linguistics, as in biology, overall similarity and recency of ancestry are usually proportional (e.g. Sokal and Sneath 1963:223, Nichols 1992:250). This is to say that groups characterized by a large number of similarities are more likely to be more recently evolved from a common ancestor, whereas groups that have few similarities in common are more likely to have diverged from a common ancestor at a much older date. The striking diversity of the four Qiangic languages of Müli is hence critically in need of explanation when generating hypotheses concerning the relationship between these languages and their linguistic history.\(^{19}\)

### 2.3. Similarities between the four Qiangic languages of Müli in an areal context

Let us now turn to an examination of the similarities between the four Qiangic languages of Müli from an areal perspective, as compared to their genetic neighbors Yí, Na, Tibetan, and Sinitic (South-Western Mandarin). I will compare the four Qiangic languages first to well documented varieties of these latter languages and then to newly documented varieties of these languages spoken in Müli. On the whole, the majority of similarities between Lizu, Nàmùzī, Pùmǐ, and Shìxīng are non-specific to the Qiangic languages of Müli and, instead, shared with their genetic neighbors.

All in all, among the similarities shared by the four Qiangic languages of Müli, as considered in the context of their neighboring languages, three types of situations can be distinguished: (1) similarities shared across several local subgroups, (2) similarities shared by the four Qiangic languages with only one of the local subgroups (either Yí, Na or Tibetan), and (3) features more specific to the languages of Müli (both Qiangic and non-Qiangic) and not shared by the languages spoken in the neighboring areas.

The first type includes features that are shared with most neighboring subgroups, essentially with Yí, Na, and Sinitic. These include: extensive use of reduplication in word formation, gender suffixes for animals, diminutive formation with the morpheme for ‘child’ or ‘son’, kinship prefix a- and numeral classifier systems.

The second type includes features that are shared either with the southern genetic neighbors of the four Qiangic languages (i.e. Yí and Na languages), or with their northern genetic neighbor (Tibetan). Features shared with Yí and Na include (1) pronunciation of /u/ as a bilabial trill after bilabial and apical stops, as characteristics of all Northern Yí varieties as well as of Na languages, and (2) multiple existential verbs.\(^{20}\) Features shared

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\(^{19}\) One possible explanation of the striking diversity of the Qiangic languages of Müli, if these are taken to be members of one lower genetic subgroup, would be a recent abrupt migration, which, however, does not appear to be the case, according to the respective oral histories of the groups (as outlined in Xiè 1992:48).

\(^{20}\) For Northern Yí varieties, see Li and Mā (1983:52-53, 77), for Na languages, see, for instance, Yang (2009:3) for Yǒngníng Na. For multiple existential verbs in Yí, see Zhū (2005:160-161); in Na, see Hé and Jiāng (1985:51-53).
with Tibetan are (1) case marking, and (2) past/non-past distinction in some high frequency verbs. Finally, while held to be essentially exclusive to Qiangic languages and not typical in well documented, standard varieties of Yi, Na and Tibetan, uvular phonemes are equally attested in Moso (Gaì and Jiång 1990:71-72), in some varieties of Nosu (Lâmă 1994:51), as well as in a number of Tibetan dialects spoken in the zone of distribution of Qiangic languages.21

The third type comprises: (1) tone systems characterized by culminativity, and (2) directional prefixes. These are features that appear exclusive to the local linguistic varieties of Müll.

Let us now examine the similarities between the four Qiangic languages in the context of the previously unrecorded local varieties of Tibetan, Na, and Sinitic, spoken in Müll, as studied in the context of the Qiang-ness project. These local varieties are, respectively, Kami Tibetan (data from personal research), Laze (based on Huáng 2009), and the local Chinese dialect (based on Li 2010).

Kami Tibetan is spoken by the historically oldest inhabitants of Müll.22 This dialect appears to possess almost the precise combination of similarities, as shared by the four Qiangic languages of this county, including even those that are generally held to be exclusive to Qiangic languages (such as directional prefixes), and only excluding pronunciation of /u/ as a bilabial trill after bilabial and apical stops and the precise categorization of existential verbs (see Appendix for examples). In fact, spoken in the geographic zone occupied by Qiangic languages, the Kami Tibetan dialect appears to possess almost an entire set of features which are held as diagnostic of the membership in the Qiangic subgroup. It even exhibits such strikingly non-Tibetan features as extensive use of reduplication in word formation and an incipient classifier system.

Laze, which is likely to be closely related to Na languages, is said to have arrived in Müll approximately six generations ago from the neighboring Yányuán County (Guò and Hé 1994:6-7). It likewise exhibits a number of diagnostic Qiangic features. For example, (1) directional prefixes, namely: (a) ge- ‘upward’, (b) a more general prefix thia- or thie- that can indicate several distinct directions, and (c) a perfective prefix la-; and (2) case forms of personal pronouns distinguished by tonal alternation. For example, the first person pronoun: absolutive form ŋɑ53 ‘I’, ergative/agentive form ŋɑ31, genitive form ŋɑ33 ‘mine’; the second person pronoun: absolutive form nu33 ‘you’, ergative/agentive form nu31, genitive form nu33 ‘your’ (Huáng 2009).

Similar to Laze, the local dialect of Chinese arrived into the area relatively recently (estimated as ca. 2-3 centuries ago). Nevertheless, this local Chinese dialect has demonstrably undergone considerable restructuring. The most striking non-Sinitic

21 These Tibetan dialects include, for instance, Yăijāng 雅江 nyag chu kha, Acuo (2008); Shibāzī 石壩子 kun sngon, Huá and Gănzātă (1997); Zhongu 熱務溝 zho ngu, J. Sun (2003:782-783). (All three dialects are spoken in Northern Sìchuān.)

22 According to Kessler (1986:20, 46), Müll has been settled by Tibetans since ca. 680 AD, i.e. after the unification of the Tibetans with the Hsifan nomadic tribes, who settled in the areas to the East of Tibet between 618 and 906 AD. However, it was only after 1253 that Müll formed the southeastern corner of the at that time still existing Tibetan empire.
morphosyntactic features acquired by this dialect in Müli, as compared to its kin varieties outside Müli (including even those spoken in the neighboring counties of Yányuán and Xicháng, Li 2010), are a variant verb-final word order, accompanied by the Noun-Numeral-Classifier order, and the development of several cases marked by postpositions. Case marking in the Müli dialect of Chinese is yet another example of pattern-borrowing, in which one native Chinese morpheme, 其 213 or 上 213, is used to denote various relations within the noun phrase, approximating those of cases in the local languages, most importantly, animate patient (primary object or anti-ergative), instrumental and locative cases. The ongoing restructuring of Chinese and Laze, witness of the intensity of language contact situation in Müli, are equally remarkable for their evident rapidity, which is quite contrary to the assumption that processes of convergence take millennia to complete.

In sum, a preliminary comparison of the four Qiangic languages of Müli in an areal context yields diversity as the most characteristic feature of these languages and no features that are exclusively shared by these languages and are not shared (separately or as an entire set) by the local varieties of the languages of the neighboring genetic subgroups. At the same time, the process of contact-induced restructuring, as observed in the latter languages, is suggestive of Müli as a zone of active contact-induced structural convergence.

2.4. Some preliminary conclusions

The following conclusions to the discussion in this section can be made. Notably, it overlooks the fact that features postulated as probative of Qiang-ness are

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23 Consider the following example of the S-O-Num-Clans-V word order in this dialect:

```
<table>
<thead>
<tr>
<th>ì²¹</th>
<th>thin²⁴⁴</th>
<th>ten⁵³</th>
<th>lao⁵³</th>
<th>ʂʅ</th>
<th>tha⁴⁴</th>
<th>tɕiu²¹³</th>
<th>tʂu⁴⁴</th>
<th>tso²¹³tər⁴⁴</th>
<th>ì²¹</th>
<th>ko²¹³</th>
<th>cian⁵³</th>
</tr>
</thead>
<tbody>
<tr>
<td>one day wait PRF be 3 just pig rump one item think</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

iao²¹³.

要 want

‘He waited one whole day, he really wanted to buy a piece of pig’s rump.’
```

24 For example, (1) animate patient marking: ŋo⁵³men⁴⁴ ɲi⁵³ ʂaŋ²¹³ tʂən⁴⁴ fan⁴⁴p²¹ ‘We will translate for you.’; ŋo⁵³men⁴⁴ xai²¹ʂʅ²¹³ tha⁴⁴ ʂaŋ²¹³ tʂən⁴⁴tɕon²¹³ 我們是你尊重。‘We do respect him.’; (2) instrumental marking: tɕiu²¹³ kən⁴⁴ ŋo⁵³men⁴⁴ niaŋ⁵³ ko²¹³ tɕe²¹³ niaŋ⁵³ thian⁴⁴ thiao²¹³kən²¹ ‘san²¹³ tɕʰ²²fan²¹³ ian²¹³ lei⁴⁴ 就跟我們兩個這兩天調羹上吃飯樣的 ‘just like the two of us were eating with a spoon this couple of days’, (3) locative marking: pan²¹³ thiu²¹³ ʂaŋ²¹³ lon⁵³ lao⁵³ ʂɿ²¹³ 半梯上坐了 ‘reached half the stairs’.

25 Comparable cases of rapid typological restructuring include, for instance, Malay and Portuguese in Sri Lanka (Bakker 2006).
equally attested in the local varieties of languages of the neighboring genetic subgroups (Yí, Na, Tibetan, Sinitic).

Second, the profound restructuring of the local non-Qiangic languages (e.g. the Tibetan and Chinese dialects of Múlǐ) indicate that Múlǐ is an active convergence area, that includes languages that are genetically unrelated, but share a number of distinctive traits. In other words, the fact that genetically unrelated local languages share a number of distinctive traits is precisely because of contact-induced diffusion.

Third, given the intensity and extent of the convergence process, as glimpsed through the local varieties of languages of known affiliation, convergence cannot be excluded as a (non-genetic) factor which has contributed to the formation of the little-known and highly distinct languages of Múlǐ, currently labeled Qiangic. Furthermore, given that cross-linguistically, no cases of completely isolated structural interference in just one linguistic subsystem have so far been attested (e.g. Thomason and Kaufman 1980:60), the degree of restructuring as observed in languages of Múlǐ is symptomatic of comparable interference affecting a range of linguistic subsystems of the languages labeled Qiangic, including also their respective lexicon. In this context, the diagnostic value of lexical comparisons, if lexical correspondences are taken to be the only or the weightiest indication of genetic relatedness, is at best uncertain.

In sum, in view of the salient dissimilarities in all linguistic subsystems and the demonstrable similarities with genetically unrelated local languages, it appears prudent to err on the side of caution and, hence, to consider these four Qiangic languages of Múlǐ as not closely genetically related.

3. Qiangic as an areal grouping: Defining features and member languages

The preceding discussion suggests that the initial research goals and the related methodology of the Qiang-ness project are in need of adjustment. In my personal work, the main objective of the project remains related to the Qiangic hypothesis, albeit in a new understanding, that is, as an areal grouping. I propose to investigate the history and the (respective) affiliation of the languages currently labeled Qiangic as critically related to the history of the area in which they are spoken, and which is typified by a number of salient traits. The two newly formulated objectives, namely, (1) studying the Qiangic area, and (2) inferring the relationship between its little-studied member languages currently labeled Qiangic, are discussed in turn below.

Linguistic or convergence areas (such as Múlǐ or, broader, Qiangic) have been argued to be essentially analogous to geographical dialect continua, with different features (isoglosses) extending over different areas (e.g. Dahl 2001, Bisang 2004, 2006:88). Given this parallel, convergence areas can be profitably studied using methods and major insights of dialectology, of the latter, most importantly, a contrast between the typologically more consistent core and more diverse periphery. The relevant approach consists in: (1) defining characteristic local features, (2) describing their geographical

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26 As argued by Thomason and Kaufman (1988:207), “extensive diffusion from a foreign language is likely to penetrate into all subsystems, causing phonological changes in inherited vocabulary, some of them irregular; mophosyntactic changes, with and without the diffusion of actual morphemes; and changes in the lexical semantic structures of retained morphemes".
distribution and local configurations, (3) adducing reasons for this distribution: arriving at an understanding of the (socio)linguistic mechanisms that lie behind the geographical distribution of linguistic phenomena, the location of isoglosses, and the diffusion of linguistic innovations.

In the area under discussion, the defining areal features considerably overlap with those established for the Qiangic subgrouping hypothesis (Qiangic as a genetic unit), but they are not limited to them. A new understanding of Qiangic as an areal grouping naturally entails that a coherent understanding of its linguistic history as well as that of its member languages necessitates moving beyond the current practice of restricting the scope of examined languages to those labeled Qiangic. Increasing the scope of languages naturally increases the number of relevant characteristic traits. For example, characteristic features of Mûlî are essentially those outlined for Lizu, Nâmûzî, Pûmî, and Shîxîng in §2, but not limited to these. When all local languages are taken into account, a complete list of features is likely to be larger, with some features non-overlapping for some languages. For instance, pronunciation of /u/ as a syllabic bilabial trill after bilabial and apical stops is equally common for Nosu, Lizu, Nâmûzî, Pûmî (after ø), and Shîxîng, but this feature is not attested in Kami Tibetan. Also, an egophoric-non-egophoric (conjunct-disjunct) system is shared by Kami, Lizu and Pûmî (and possibly, Laze), but not by Nâmûzî or Nosu.

As pointed out in §2, features shared by Lizu, Nâmûzî, Pûmî, and Shîxîng can be further divided into those shared by these languages (1) with several neighboring genetic groups, (2) with either the southern or the northern genetic neighbors of these languages, and (3) those, mostly restricted to the languages of Mûlî (of all local genetic subgroups). Discarding the non-committal first type, the second and the third type appear most telling as to the linguistic history of the local Mûlî languages. Namely, the second type is suggestive of a link (either genetic or through contact) with either Yí, Na, or Tibetan, whereas the third type that is essentially restricted to the Qiangic area (exemplified by directional prefixes, and, possibly, also uvulars) is potentially indicative of some features that may originate in the local languages, that are unrelated to any of the better known local genetic subgroups (Yí, Na, Tibetan).27

Furthermore, the precise inventory and the scalability of the structural (typological) features that are shared by the languages of Mûlî are symptomatic of a transition in the area between two widely divergent typological types, namely (1) Tibetan and (2) Yí and Na. Of these two types, Tibetan is agglutinative with complex suffixal morphology (e.g. well-developed case marking systems). It does not have numeral classifiers or multiple existential (locative) verbs. Tibetan has template word-tone systems (J. Sun 1997). The typologically close Yí and Na, on the other hand, are predominantly isolating. Yí expresses syntactic relations essentially by means of a rigid word order, whereas Na makes restricted use of case marking. Both Yí and Na have well-

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27 I note that the adoption in some local languages of the uvular phonetic realization of velar phonemes before low vowels (as in Pûmî, Kami Tibetan or some varieties of Nosu) may be due to diffusion, in a fashion that is possibly similar to the adoption and spread of the uvular phonetic realization of the /r/ phoneme in various western European languages, originally from French (Trudgill 1983:56-59).
developed systems of numeral classifiers and multiple existential (locative) verbs. The two groups have omnisyllabic tonal systems.\(^{28}\)

Language contact in the research area leads to the mutual rapprochement of these distinct types, yielding a number of transitional subtypes in the languages of Mùlǐ. This development can be clearly detected in the local languages of known genetic affiliation. For example, Kami Tibetan acquires such a non-Tibetan trait as an incipient classifier system, whereas the local Chinese dialect develops such a non-Sinitic feature, as a system of postpositional case markers. Notably, in Sino-Tibetan at large, those structural features that are common in the languages of Mùlǐ (e.g. case marking, numeral classifiers, multiple existential verbs) are held to be recent, largely independent and subject to contact effects from nearby languages (e.g. LaPolla 1994, Bradley 2005:224 for classifier systems). This entails that in local Mùlǐ languages of uncertain affiliation, these linguistic systems are likewise likely to have been affected by language contact, potentially obscuring the relationship of these languages with their possible relatives outside of the area.

Let us now turn to the issue of inferring the genetic affiliation of the local phylogenetically more obscure languages (Púmǐ, Lizu, Nàmùzī, Shǐxīng). Two possibilities are conceivable:

1. These languages are related to the neighboring genetic subgroups and are considerably restructured through contact in the area to obscure the original relatedness.

2. These languages are genetically unrelated to the neighboring genetic subgroups and, possibly, also to each other, with a further possibility of distinct subgroups among them, similar to rGyalrongic, and/or isolates. These languages may likewise be considerably restructured through contact to make them more similar to their non-genetic areal neighbors.

Reliance on areal characteristic features confounds the two types (the current Qiangic hypothesis, Qiangic as a genetic unit). Conversely, differentiation between the two possibilities necessitates new subgrouping that will take into account (1) areal tendencies, as gleaned through restructuring of local varieties of languages whose genetic affiliation is not disputed, and (2) typological profiles of the neighboring genetic subgroups to serve as reference points for comparison. In sum, it calls for an interdisciplinary approach,

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\(^{28}\) In addition, the recent arrival into the area, Sinitic, represents yet another typological type. Similar to Yí and Na, Sinitic is isolating, it has omnisyllabic tones, and a well-developed numeral classifier system. On the other hand, Sinitic has a predominant verb-medial word order and no multiple existential verbs.

A clear transition from highly developed to more reduced classifier systems can be observed in Na languages, as one moves from south (Yúnnán, Nàxǐ) to north (Sìchuān, Moso), towards the research area discussed presently. Hence, Nàxǐ has slightly over 40 sortal classifiers (as counted from Pinson 1998:245-251), Yǒngning Na has approximately 15 sortal classifiers (Lidz 2006:8-14, Yang 2009:24-25), whereas Laze has only 5 to 10 sortal classifiers (Huáng forthcoming, Alexis Michaud, p.c.). This transition appears further accompanied by that (also south to north) from omnisyllabic tone systems (Nàxǐ) to restricted tone systems, characterized by neutralization of tonal contrasts (Yǒngning Na, Laze). A correlated development is that of classifiers: from free forms (Nàxǐ) to bound forms (enclitics to numerals, as in Laze).
combining studies on language typology, language contact, and comparative-historical linguistics.

The conventional subgrouping procedure based on prioritizing a limited number of similarities that may be indicative of common ancestry (common innovations) and essentially favoring one linguistic subsystem (lexicon), in the absence of objective criteria to factor out diffusion, cannot guarantee objectivity of results in an area of considerable historical, ethnic and linguistic complexity (such as the one discussed presently), especially in the absence of previous attestations of its languages. A reliable alternative consists in subgrouping based on a maximum large number of synchronic similarities, that are further not prioritized as to their historical significance, that is, overall synchronic similarities, whatever these similarities may signify (genetic inheritance or results of diffusion). Overall similarity between any two languages or groups of languages is a function of the similarity of the many traits in which they are being compared. (Note that the use of a broad range and variety of correlated similarities, both in structure and form, effectively eliminates chance and parallel developments as their possible origins.) Distinct subgroups can be constructed because of diverse trait correlations in the groups under study. Notably, this procedure yields natural groups, that is, groups whose members share many correlated features and which are, for that reason, likely to be monophyletic. Finally, overall synchronic (phenetic) similarity and phylogenetic history are treated as formally independent of one another, and phylogenetic information is obtained by conjecture from synchronic type of evidence.29

A natural objection to this approach may be that reliance on synchronic similarities runs the risk of confounding among similarities those due to genetic inheritance and those due to convergence. Fortunately, in linguistics, as in biology, phenetic groups are usually monophyletic and there is as yet no acceptable evidence that overall convergence or convergence in phenetic resemblance does take place to any marked extent (e.g. Sneath and Sokal 1963:97). Furthermore, in linguistics, mixed languages, such as pidgins and creoles (e.g. Ma’a [Mbugu] or Media Lengua), whose origins are non-genetic, represent an extremely rare and unusual effect of societal contact, so that, in most cases, it is possible to distinguish mixed languages, whose origins are non-genetic, from languages whose development has followed a more common genetic line (cf. Thomason and Kaufman 1988:3). The local Tibetan dialect of Müi is a case at hand. While considerably restructured due to areal convergence (acquiring many non-Tibetan features and loanwords), its lineage is beyond dispute (given overall clear continuity in its phonology, morphology, lexicon and syntax with its nearest relatives outside of the area).

I propose to use this procedure as a hypothesis-generating tool in connection to the (respective) affiliation of Pumi, Lizu, Namuzi, and Shiixing. This procedure can rely on existing hypotheses based on impressionistic or more systematic and grounded

29 The approach is that of numerical taxonomy in biology, based on the ideas of Michel Adanson and developed in Sneath and Sokal (1963). Applied in linguistics, this approach is an excellent candidate for quantitative methods, such as NeighbourNet, which is argued to favor a phenetic, rather than a cladistic approach (McMahon and McMahon 2006:72), or statistical methods, as, for instance, used in dialectometry. A similar approach is advocated in Kessler (2001), where it is however restricted to the domain of lexicon, to allow application of statistical methods in historical linguistics.
assessments of the overall respective similarities of these languages with their various neighbors. According to these previous hypotheses, Pūmǐ is conceivably related to Qiāng and Mùyà, as argued to be fully substantiated by cognate sets (Thurgood 2003:17). Shìxīng, on the other hand, is likely to be related to Na languages (Guō and Hé 1994:8-9). Finally, on the strength of, for the time being, impressionistic lexical and structural similarities, Nàmùzī and Lizu may be more closely related to Yī languages than they are to their remaining linguistic neighbors (for Nàmùzī, see Lāmā 1994; Huāng 1997:13-15).30 Needless to say, at this stage, these are merely working hypotheses, to be either confirmed or falsified by systematically taking into account a variety of linguistic subsystems and features.

In the remainder of this section, I will elaborate on the hypothesized close relationship between Shìxīng and Na languages, as this relationship appears to be most straightforward among all aforementioned cases. This relationship is assessed against the background of areal typological tendencies, as discussed above.

Shìxīng displays significant similarity with Na languages in all its linguistic subsystems and no comparable similarity with any other local language or group of languages. Most importantly, there is substantial continuity between Na languages and Shìxīng in terms of their morphology and syntax (as a productive combination of meaning and form), namely:31

(1) Derivational morphology. Gender suffixes for animals, ‘male’: Nàxī phv33, Shìxīng pha; ‘female’ (feminine and augmentative): Nàxī mi33/mv33, Shìxīng mi. Nàxī male suffix zo33 corresponds to the male and diminutive suffix zō in Shìxīng. Both forms stem from morphemes for ‘male, son’.

(2) Aspectual marking:
   (a) progressive aspect marker (grammaticalized in Moso and Shìxīng from the locative verb ‘to exist’), i.e. Yǒngning Na dzo55; Shìxīng dzō. Compare, ‘to exist’: Yǒngning Na dzo55; Shìxīng dzō55

30 For example, Lizu shares with Yī many lexical items (Sūn 2001:167). It also shares with Nosu many grammaticalizations (both form and function), such as (1) grammaticalization from ‘man, person’ (Lizu su, Nosu su) to a nominalizer, e.g. Lizu še55-tshu33-su33 ‘blacksmith’ (from še55 ‘iron’, tshu55 ‘to hit, to strike’), or (2) that from the verb ‘to make’ (Lizu m(u)39, Nosu m(u)33) to an adverbalizer, e.g. Lizu æ55-zæ55=m(u)33 ji35 ‘take care’, literally ‘go slowly’, a conventional expression of farewell). Overall, many Lizu function words have formally and functionally close counterparts in Nosu (based on Hú 2002).

The assumption of a close relationship between Lizu and Nàmùzī is corroborated by the oral history of the groups. The two groups are believed by their speakers to be distantly related (as gathered from my language consultants).

31 This overview is based on the list of diagnostic morphological and syntactic similarities between Nàxī and Moso in Jiāng (1993), to which I added my Shìxīng data. Some additional features shared by Nàxī, Moso and Shìxīng are cited, for Nàxī and Moso, from Hé and Jiāng (1985), Līdz (2006), and Yang (2009). Some similarities between Shìxīng and Na languages are also discussed in Chirkova (2009).
(b) perfective aspect marker: Nàxī siə33, se31; Yōngníng Na ze33; Shìxīng sə. For example, ‘have eaten’: Nàxī ndzu33se31; Yōngníng Na dzɯ55ze31; Shìxīng lɜ33-dzɜ33=se55 (with the perfective prefix lɜ-)

(c) possibly, also the experiential marker: Nàxī dʑi33, Yōngníng Na dʑi33, Shìxīng dʑə. For example, ‘have once eaten’: Nàxī ndzu33dʑi33, Yōngníng Na dzɯ55dʑi33, Shìxīng dʑɜ33=dʑɜ55

(3) Nominalizer, grammaticalized in Moso and Shìxīng from the morpheme for ‘person’. For example, ‘wood-cutter’: Yōngníng Na sɯ33dɑ31xĩ33 (from xĩ33 ‘person’), Shìxīng sĩ55-ti33-hĩ33 (from hĩ55 ‘person’).

(4) Reduplication in adjectives with the prefix a- (to signal intensification). For example, Lìjiāng mbe33 ‘thin’ vs. a33mbe33mbe13 ‘very thin’; Guābié bi33 ‘thin’ vs. a55bi65bi33 ‘very thin’, Shìxīng bu35 ‘thin’ vs. a33-bu33-bu55 ‘very thin’.

(5) Suppletive forms of the verbs ‘to come’ and ‘to go’:

<table>
<thead>
<tr>
<th>‘to come’</th>
<th>Lìjiāng Nàxī</th>
<th>Yōngníng Na</th>
<th>Shìxīng</th>
</tr>
</thead>
<tbody>
<tr>
<td>past</td>
<td>tʃu31</td>
<td>tʃu31</td>
<td>tʃu35</td>
</tr>
<tr>
<td>non-past</td>
<td>tʃu31, lu33, la33</td>
<td>zɨ33, zu33</td>
<td>l355, liu45</td>
</tr>
<tr>
<td>imperative</td>
<td>lu33</td>
<td>zu33</td>
<td>liu35</td>
</tr>
<tr>
<td>‘to go’</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>non-past</td>
<td>bu33, bo31</td>
<td>bi33</td>
<td>bi35</td>
</tr>
<tr>
<td>past</td>
<td>khu55, xu33, xa13</td>
<td>khe13, xu33</td>
<td>xa35</td>
</tr>
<tr>
<td>imperative</td>
<td>fa33</td>
<td>xu33</td>
<td>xu35</td>
</tr>
</tbody>
</table>

(6) Some continuity in the system of existential verbs (even though that in Shìxīng is more elaborate than those in Nàxī and Moso, with some unrelated forms), namely: ‘to have, to possess; to exist’: Lìjiāng Nàxī dzy33 (inanimate entities), ndzy33 (animate entities); Yōngníng Na dzo33; Shìxīng dz035 (inanimate entities), jɨ35 (animate entities); ‘to exist (inside a container)’: Lìjiāng Nàxī zi33, Yōngníng Na zi33, Shìxīng khu35; ‘to exist (attached to an entity)’: Lìjiāng Nàxī dzɯ31, Yōngníng Na di31, Shìxīng dzɨ35.

Some additional features include:
(1) grammaticalization of the verb ‘to make’ into an adverbializer, e.g. Lijiāng tshu31 be33 nda33 ‘go quickly’ (from be33 ‘to make’), Shīxīng tsh36 b33=s33# pha35 ‘precipitously escape’ (from b33 ‘to make’, followed by the clause connector sì)

(2) delimitative verbal prefix related to the numeral ‘one’, Yōngnìng Na d33- from d33 ‘one’ (Lidz 2006), Shīxīng da- from da35 ‘one’. For example, Yōngnìng Na d33-dì13 ‘to follow (for a while)’; Shīxīng dì33-ɕĩ55 ‘to have a look’.

At the same time, internal divergence between Shīxīng and Na languages is manifested in the lack of agreement between lexical and some grammatical subsystems.32 Divergences between grammatical subsystems are furthermore essentially restricted to those systems that appear to be particularly prone to restructuring in the Mûlī area, as observed in its languages of known genetic affiliation, or to those salient phenomena that are exclusive to the area, namely:

(1) Shīxīng’s system of case markers is more developed than that in other Na languages. More precisely, Shīxīng has more cases than Nàxī and Moso; and case markers that overlap between these languages appear unrelated.

(2) Shīxīng has a highly reduced classifier system with only two sortal classifiers (one general and one for elongated entities, see §2.2). The development of its classifier system furthermore fits within the context of the overall south-north gradual reduction of classifier systems in Na languages (see footnote 28).

(3) Shīxīng also has a better developed (than in other Na varieties) system of existential (locative) verbs.

(4) Shīxīng has directional prefixes.

(5) Shīxīng has a tone system characterized by culminativity (as discussed in detail in Chirkova and Michaud 2009).

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32 While systematic lexical comparison between Shīxīng and Na languages is yet to be undertaken, pending also a rigorous phonological analysis of Shīxīng, two observations regarding shared lexical items between Shīxīng and Na languages can be made. First, on an impressionistic level, lexical similarities between these languages are substantial, but they are expected to be significantly fewer than 60%, as shared between Nàxī and Moso. Notably, in comparison to the latter languages, Shīxīng has an extensive number of Tibetan and Pûmî loans. Second, some diagnostic regular correspondences between Nàxī and Moso (such as that between a prenasalized initial in Nàxī and a non-nasal initial in Moso) may be paralleled in Shīxīng (a non-nasal initial followed by a nasalized vowel). For example, ‘bridge’: Nàxī ndzǭ21, Moso dzo93, Shīxīng zɛ̃55; ‘to sit; to live’: Nàxī ndzɯ31, Moso dzɯ13, Shīxīng dzũ55; ‘short’: Nàxī ndɛ̃23, Moso da93, dɛ̃33; Shīxīng d ɛ̃35.
The reason for these dissimilarities between Shìxīng and its supposed Na relatives outside of the area is likely to be contact influence from the areal neighbors of Shìxīng, most importantly, its closest geographical neighbors in Shuílúō Tibetan and Púmǐ. So, as a first approximation, Shìxīng can be hypothesized to be a Na language that has undergone considerable restructuring in Mülǐ.33

More fine-grained studies, including the largest possible range and number of similarities between Shìxīng and Na, accompanied by careful lexical comparisons, will reveal whether these languages form one natural group and will further lead to the conclusion of the precise nature of the relationship between them (genetic or contact-induced).

4. Subgrouping in the Qiangic area and Sino-Tibetan at large

It is a lasting contribution of Sūn Hóngkǎi to the field of Sino-Tibetan studies to single out the Qiangic area, and to identify some of its key features, while focusing on its languages of uncertain affiliation. Follow-up investigations, such as the ongoing work on the languages of Mülǐ, as discussed presently, suggest that the initial interpretation of the nature of similarities between the more obscure languages of the Qiangic area as genetic requires adjustment, and that a coherent understanding of the relationship between these languages critically relies on that of the complex multi-lingual area, in which they are spoken. To adduce an explanation to the many salient areal features, some of which are truly unique in the Sino-Tibetan context, we will need to move beyond the usual practice of restricting the scope of studied languages to those labeled Qiangic. This new approach will increase both the number of concerned languages and the number of relevant areal features. As a result, Bái mā Tibetan will rightfully reclaim its place as a valid and telling member of the Qiangic Sprachbund.

Needless to say, the unique features of the Qiangic area are likely to provide new insights into the history of Sino-Tibetan at large. Not surprisingly, related comparative and reconstruction work can only be revealing, if it is performed on coherent, natural groups, whereas the issue of the precise subgrouping in the complex Qiangic area is far from resolved, as I have tried to show.

On a broader scale, the problem of subgrouping, as discussed in relation to Qiangic, is emblematic for Sino-Tibetan at large, where the precise subgrouping of constituents remains in many cases controversial. In addition to outstanding challenges of subgrouping in historical linguistics in general,34 added challenges to subgrouping in the Sino-Tibetan context comprise (Handel 2008:426, 431, 435):

33 Notably, the two putative Na languages of Mülǐ, Laze and Shìxīng, both exhibit salient areal Mülǐ features and differ essentially in their respective degree of restructuring. Namely, Shìxīng is more profoundly (lexically, prosodically and syntactically) restructured than Laze. As a first approximation, this may be simply due to a longer time of residence in Mülǐ, and consequently, a longer time of exposure to convergence: ca. 500 years for the Shìxīng group (Xiè 1992:48) vs. ca. 200 years for the Laze (Guò and Hé 1994:6-7).
34 These challenges include lack of objective criteria to distinguish retentions from innovations, absence of a theory of relative naturalness of sound change and absence of objective criteria to factor out diffusion or identical independent change (see Harrison 2003:232-239 for discussion).
(1) absence of a complete reconstruction of Proto-Sino-Tibetan, that makes it difficult to identify shared innovations with certainty between proposed subgroups (at the same time, a complete reconstruction in turn requires a clear subgrouping, without which it is difficult to properly weight and evaluate data from the daughter languages)

(2) insufficient documentation of many Sino-Tibetan languages

(3) complex migration histories and areal convergence, obscuring recognition of genetic relationships (e.g. LaPolla 2001)

(4) existence of many languages with monosyllabic roots that increases the probability of chance resemblances leading to the false identification of cognates.

Yet one more momentous challenge of the Sino-Tibetan family is the pervasive absence of previous attestations (direct historical evidence) of many of its languages.

Solutions to these fundamental problems may or may not be found. For instance, no previous attestations of genetically obscure languages of the Qiangic area are in all likelihood forthcoming. While steadily working towards solutions and hoping that some obstacles can eventually be overcome, in my opinion, studies on the linguistic history of Sino-Tibetan languages have in the meantime everything to gain by turning to a broad range and variety of available and steadily growing body of empirical evidence, including that, that is normally discarded by the conventional comparative method (such as typological features) for many clues that they can provide on specific scenarios of diachronic change.

The initial phase of classification of Sino-Tibetan languages appears now complete. It relies on “classification from above” (family into subgroups). It is based on few criteria (cognate vocabulary, common innovations) to allow isolation of groups of a manageable size for study. Due to the use of few criteria, this type of classification unavoidably runs the risk of yielding groups that are not natural (not monophyletic), and hence are neither complete nor sufficiently discrete to be used for precise purposes, such as, for instance, reconstruction work. A consequent concern is to refine proposed subgroups to ensure completeness and accuracy of information that can be obtained from each of them on their respective ancestral states. For my part, this can be profitably done by changing the approach to that of “classification from below” (languages to subgroups), especially at the often fuzzy boundaries of already proposed subgroups, to arrive at groups that are defined by overall synchronic similarities and that are, for that reason, likely to be monophyletic. An added bonus of this venture is that definition of each natural group is intrinsically relational to that of its kin. Consequently, pursuit of boundaries of, for instance, natural Qiang-ness is bound to shed light on the nature, scope, and history of many of its neighboring languages and subgroups.
Appendix: Features shared by the four Qiangic languages of Mùlǐ (Púmǐ, Lizu, Nàmùzī, Shǐxīng) exemplified and compared to Kami Tibetan (related to §§2.1 and 2.3)


(2) Uvular phonemes: (a) contrastive with velars, as in Lizu, Nàmùzī and Shǐxīng, e.g. Shǐxīng khɜ55 ‘foot’ vs. qhɜ55 ‘excrement’; khuɜ55 ‘to exist (inside a container)’ vs. qhuɜ55 ‘to steal’, or (b) allophones of velar fricatives, as in Púmǐ and Kami Tibetan. For example, Púmǐ: xa24 [x̂a24] ‘to bite’, yɑ55 [ȳa55] ‘fang’; Kami, xɔ55 [x̄ɔ55] ‘meat, flesh’ (WT sha), xu13 [x̄u13] ‘yoghurt’ (WT zho).

(3) Common principles of prosodic organization: tone systems characterized by culminativity—a restriction of not more than one pronounced lexical tone per prosodic word with one tonal assignment (mostly restricted to the first syllable of the word) affecting much or all of the prosodic word, see Chirkova and Michaud (2009) for the prosodic organization of Shǐxīng, Chirkova (2008) for the prosodic organization of Lizu, and Chirkova (submitted) for the prosodic organization of Kami.

(4) Identical principles of word-formation, including:

(a) Extensive use of reduplication. Reduplication involving dynamic verbs expresses frequentative or iterative meaning, e.g. Lizu kæ53 ‘to hit’ vs. kæ55-kæ53 ‘to fight’, Nàmùzī qæ31-qæ53 ‘to scratch an itch’, Shǐxīng dzõ33-dzõ55 ‘to run’. An additional meaning of reduplication is reciprocity, e.g. Shǐxīng qoɔ33-qoɔ55 ‘to help (each other)’. The meaning of reduplication for stative verbs (adjectives) is intensification, e.g. Lizu zu55 ‘thick’ vs. zu55-zu55 ‘(very) thick’; Shǐxīng gu355-gu55 ‘(very) round’; Kami ʒɔ̃13 ‘light’ vs. ʒɔ̃33-ʒɔ̃55 ‘(very) light’.

(b) Compounding, e.g. Nàmùzī tɕie55-bie31# lo55-χo31 ‘carrot’, from tɕie55-bie55 ‘turnip’, lo55-χo31 ‘red’; Lizu tʃo55-mo55 ‘elderly person’, from tʃo55 ‘person’, the33-mo55 ‘old’ (with the directional prefix the-); Shǐxīng tʃsh55-χoɔ33 ‘salty’, from tʃsh53 ‘salt’, qhɔ55-sɔ33 ‘bitter’ (the initial qh- in ‘bitter’ undergoes lenition in the intervocalic position, see Chirkova 2009)

(3) Affixation. This type comprises:
(i) Kinship prefix a- (older kin), e.g. Lizu and Nàmùzī: æ65-jæ65 ‘older sibling (brother or sister)’, Shìxìng and Kami: a33-ju65 ‘older brother’, a33-zi65 ‘older sister’

(ii) Diminutive suffix derived from the morpheme for ‘child’ or ‘son’:

<table>
<thead>
<tr>
<th>Diminutive suffix</th>
<th>Meaning</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Púmí</td>
<td>tsuə55</td>
<td>‘son’</td>
</tr>
<tr>
<td></td>
<td>m311tsa65 ‘cat’: m311tsa65tsə55 ‘kitten’</td>
<td></td>
</tr>
<tr>
<td>Lizu</td>
<td>1. je</td>
<td>‘small’</td>
</tr>
<tr>
<td></td>
<td>tɕhe65 ‘dog’: tɕhe65,jæ33 ‘pup’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. jæ33-qø53</td>
<td>‘child’</td>
</tr>
<tr>
<td></td>
<td>mu33-ssa65 ‘cat’: mu33-tsa65 jæ33-qø53 ‘kitten’</td>
<td></td>
</tr>
<tr>
<td>Nàmùzī</td>
<td>zo65</td>
<td>‘child’</td>
</tr>
<tr>
<td></td>
<td>jo65 ‘sheep’: jo65-za65 ‘lamb’</td>
<td></td>
</tr>
<tr>
<td>Shìxìng</td>
<td>zø35</td>
<td>‘child, male’</td>
</tr>
<tr>
<td></td>
<td>ma33-za65 ‘cat’: ma33-za33-zø55 ‘kitten’</td>
<td></td>
</tr>
<tr>
<td>Kami</td>
<td>1. ka</td>
<td>‘child’</td>
</tr>
<tr>
<td></td>
<td>tʃhə55 ‘dog’: tʃhə33-ka55 ‘pup’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>wu55-li55 ‘cat’: wu33-ka55 ‘kitten’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. tʃhə (WT phrug)</td>
<td>‘child’</td>
</tr>
<tr>
<td></td>
<td>wu55-li55 ‘cat’: wu33-tʃhə55 ‘kitten’</td>
<td></td>
</tr>
</tbody>
</table>

(iii) Gender suffixes for animals (in Kami, prefixes):

<table>
<thead>
<tr>
<th>Female</th>
<th>Male</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Púmí</td>
<td>må</td>
<td>pu</td>
</tr>
<tr>
<td></td>
<td>m311tsa65 ‘cat’: m311tsa65mā55 ‘female cat’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>kха11dʐə24 ‘dog’: kхə65mā55 ‘bitch, female dog’; kхə11pu55 ‘male dog’</td>
<td></td>
</tr>
<tr>
<td>Lizu</td>
<td>mæ</td>
<td>1. nphe</td>
</tr>
<tr>
<td></td>
<td>tɕhe65 ‘dog’: tɕhe65-mæ33 ‘bitch, female dog’; tɕhe65-ŋpæ33 ‘male dog’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. bu</td>
<td>mu33-tsa65 ‘cat’: mu33-tsa33-mæ55 ‘female cat’; mu33-tsa33-ŋb55 ‘male dog’</td>
</tr>
<tr>
<td>Nàmùzī</td>
<td>mie</td>
<td>1.(n)phu</td>
</tr>
<tr>
<td></td>
<td>ḥra65 ‘chicken’: ḥra65-mie55 ‘hen’; ḥra65-phu55 ‘rooster’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. (tæ55)-bø55</td>
<td>‘chicken’</td>
</tr>
<tr>
<td></td>
<td>ḥra33-la65 ‘cat’: ḥra33-la55-a65-mie55 ‘female cat’; ḥa33-la55 tæ55-bu55 ‘male dog’</td>
<td></td>
</tr>
<tr>
<td>Shìxìng</td>
<td>mi</td>
<td>phə</td>
</tr>
<tr>
<td></td>
<td>khʊ53 ‘dog’: khʊ53-mi33 ‘bitch, female dog’; khʊ55-phə33 ‘male dog’</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ma33-zə65 ‘cat’: ma33-zə33-mi55 ‘female cat’; ma33-zə33-phə55 ‘male dog’</td>
<td></td>
</tr>
<tr>
<td>Kami</td>
<td>mu</td>
<td>phu</td>
</tr>
<tr>
<td></td>
<td>tʃhə55 ‘dog’: tʃhə33-tʃhə55 ‘bitch’; phu33-tʃhə55 ‘male dog’</td>
<td></td>
</tr>
</tbody>
</table>

(5) Case marking governed by empathy hierarchy with, most importantly, agentive, animate patient, genitive and locative case markers, namely (Kami case markers are currently omitted, as requiring more investigation):
In addition, Lizu and Shixìng have topic markers, Lizu le; Shixìng: ʐə and ne.

(6) Numeral classifiers (see §2.2)
Kami has an incipient system of numeral classifiers, in which classifiers are optional and restricted to animate nouns. Consider, for instance, the optional use of the (incipient) classifier ngu₅⁵ (WT mgo ‘head’) in the expression ɲə₃₃-ngu₅⁵ tɕi₁₃ (mi mgo gcig) ‘one person’.

(7) Directional Prefixes:

<table>
<thead>
<tr>
<th></th>
<th>up</th>
<th>down</th>
<th>inside</th>
<th>outside</th>
<th>towards oneself</th>
<th>from oneself</th>
</tr>
</thead>
<tbody>
<tr>
<td>Púmî</td>
<td>tə₅⁵</td>
<td>nə-</td>
<td>hə-</td>
<td>khə-</td>
<td>ɗə-</td>
<td>thə-</td>
</tr>
<tr>
<td>Lizu</td>
<td>de-</td>
<td>nə-</td>
<td>khe-</td>
<td>the-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nàmûzî</td>
<td>lo-</td>
<td>mi-</td>
<td>tɕhi-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shixìng</td>
<td>dʑi-</td>
<td>mic-</td>
<td>khu-</td>
<td>bə-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kami</td>
<td>jæ-</td>
<td>mæ-</td>
<td>tshæ-</td>
<td>phæ-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In addition, Shixìng has an aspectual (perfective) prefix lə-.

(8) Past/non-past distinction (suppletive forms) in some high frequency verbs and nominalization markers. Consider, for instance, past and non-past stems of the verb ‘to go’:

<table>
<thead>
<tr>
<th></th>
<th>Past stem</th>
<th>Non-past stem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Púmî</td>
<td>sə₅¹</td>
<td>ɕə₅¹</td>
</tr>
<tr>
<td>Lizu</td>
<td>də₃⁵</td>
<td>ji₃⁵</td>
</tr>
<tr>
<td>Nàmûzî</td>
<td>hũ₅⁵</td>
<td>bie₃⁵</td>
</tr>
<tr>
<td>Shixìng</td>
<td>xa₃⁵</td>
<td>bji₃⁵</td>
</tr>
<tr>
<td>Kami</td>
<td>shũ₅⁵ (song)₃⁵</td>
<td>ndzũ₁² (gro)</td>
</tr>
</tbody>
</table>

³⁵ The form shũ₅⁵ (song) is both past and imperative.
In addition, patient nominalizers in Lizu and Shǐxīng have distinct past and non-past forms, namely, in Lizu: (a) past -mi, e.g. ne33-dze65=mi35 ‘those that have been eaten’, and (b) non-past -ly, e.g. dze33-ly65 ‘edibles, things to eat’. In Shǐxīng: (a) past -li, e.g. dzõ65=li65# zõ33 ni65# bi33-tsh355 ‘rice and bacon that he used to have’, and (b) non-past -g3, e.g. dz33=g355 ‘edibles, things to eat’.

(9) Multiple existential verbs:

<table>
<thead>
<tr>
<th>Existential verb</th>
<th>Pǔmǐ</th>
<th>Lizu</th>
<th>Nàmùzǐ</th>
<th>Shǐxīng</th>
</tr>
</thead>
<tbody>
<tr>
<td>to have, to possess</td>
<td>bõ51</td>
<td>bo35</td>
<td>bo55</td>
<td>dzõ35</td>
</tr>
<tr>
<td>to exist (of animate entities)</td>
<td>zɛ51</td>
<td>dzo55</td>
<td>dzo55</td>
<td>jĩ55</td>
</tr>
<tr>
<td>to exist (of inanimate entities)</td>
<td>haẽ55</td>
<td>ndzẽ51</td>
<td>dzõ55</td>
<td></td>
</tr>
<tr>
<td>to exist (of movable entities)</td>
<td>dzuaẽ55</td>
<td></td>
<td>zẽ21</td>
<td></td>
</tr>
<tr>
<td>to exist (inside a container)</td>
<td>kui51 or tei51</td>
<td></td>
<td></td>
<td>kũ35</td>
</tr>
<tr>
<td>to exist (attached to an entity)</td>
<td>diã51</td>
<td></td>
<td></td>
<td>dz35</td>
</tr>
<tr>
<td>to exist (of abstract entities)</td>
<td>ɕi24</td>
<td>ne35</td>
<td>dzẽ65-gĩ55</td>
<td></td>
</tr>
</tbody>
</table>

Existential verbs in Kami fall into two contrastive types, on the one hand, those that belong to the personal sphere of the speaker (egophoric), and, on the other hand, those that do not. For example, for the verb ‘to exist; to be’, the egophoric form is ndẽ13 (‘dug’) and the non-egophoric form is n̥ɔ̃55 (snang); for the verb ‘to have, to possess’, the egophoric forms are ʒu13 (yod) (old knowledge) and ʒã13 (yod.) (new knowledge), whereas the non-egophoric form is again n̥ɔ̃55 (snang).

**Abbreviations**

- indicates that the syllables that a dash connects constitute one single word
~ indicates free variation between two forms
* unattested form which has been historically reconstructed
? indicates a morpheme whose meaning is unclear
# indicates a juncture between two tonal domains
= separates an enclitic from its host word
3 third person singular pronoun
PRF perfective
PST Proto-Sino-Tibetan
WT Written Tibetan
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