Ersu is an endangered language spoken in Southwest China, contr sified as Qiangic. This study is based on novel linguistic data colled fieldwork by the author.

Data and observation

	Class A				ass B	Class C
	'thick (in diameter)'	'long'	'big'	'short'	'light,shallow'	'small'
simple (1)	ya-bi	<i>уа-</i> şә	ya-k ^h ua	dzodzo	ηίηί	mala
comp (2)	ya-bi	ya-şə	ya-k ^h ua	dzodzo	ગાંગાં	mala
'even'-comp (7) (8)	(?)ya-bi	(?)ya-şə	(?)ya-k ^h ua	ya-dzodzo	ya-nini	ya-mala
equa (3)	pa-bi	pa-ŝə	pa-k ^h ua	pa-dzodzo	pa-nini	pa-mala
degq (4)	pa-bi	pa-ŝə	pa-k ^h ua	*	*	*
exclam (5) (6)	pa-ya-bi	ра-уа-şә	<i>pa-ya-</i> k ^h ua	pa-dzodzo	pa-nini	pa-mala
Inchoative	ŋə-bi	də-şə	də-k ^h ua	k ^h ə-dzo	nə-ŋi	na-mala

siya

ni

tə-wo *(ya-)bi. siya (1)peach this ya-big 'This peach is big.'

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- siya sepε da **pa** (*ya-)bi. (3) peach plum as equa ya-big 'The peach is as big as the plum.'
- sepε tsho pa ya-bi (6)(5) plum wh equa ya-big. 'How big the plum is!'
- 'This peach is bigger than plums.' sepε tsho pa bi? (4)plum wh equa big
 - 'How big is the plum?' sepe tsho pa mala
- your plum wh equa small. 'How small your plum is!'
- siya mala, sepε ya-mala. (7)peach small plum ya-small 'Peaches are small, and plums are smaller.'
- sepε siya tcho (ya-)mala. (8)plum peach than ya-small 'Plums are (even) smaller than peaches.'
 - Peaches are small, and sepe siya $tc^{h}o$ ya-mala.(preferred)
 - Peaches are small, and sepe siya $t_{c}^{h}o$ mala. (dispreferred)

Research questions

- 1. Why reduplication (in Class B) is variable (cf. inchoatives)?
- 2. How to account for the distribution of *ya*-?
- **3**. How to account for the semantics w.r.t. the varying forms?

Proposal

Adjectives are form from a category-neutral root merging with a functional morpheme a, which is c-commanded by a Deg (e.g. Pos, Comp, Equa, etc.).

> DegP аP Deg \sqrt{root} a

Deg carries the features [+/-comp] and [+/-eval], and a itself carries a feature, which I refer to as [+/-f], which is determined by (the semantics of) the root. Roughly, positive relative adjectives are [+f], and the rest are [-f].

Boston University

Accounting for Ersu gradable adjective forms under DM

Ying Gong

Readjustment rule: reduplicate $\sqrt{X} / a + _$, $X = \sqrt{ni}, ...$ (9)(Reduplication does not happen if inchoatives involve merging with a v head. (Answer to RQ1)

Vocabulary Items

(10)a. $a \Leftrightarrow /ya-/ / _ \{+\alpha, +\beta\}$ b. $a \Leftrightarrow \emptyset / elsewhere$

In other words, two Vocabulary Items can be inserted at the terminal node a, namely /ya-/ and \emptyset . The insertion is conditioned by the features [+f], [+comp] and [+eval]. (The last two conditioning features come from Deg, so a less strict locality restriction needs to be specified.) (Answer to RQ2)

(11)	Pos	sitives and Comps	(12)
	a.	Pos ⇔ ∅	
	b.	$Comp \Leftrightarrow \emptyset$	
	С.	Than $\Leftrightarrow /tc^{h}o/$	

		Results	
positive [+eval]	non-eval comp covert std	eval comp covert std	ľ

	positive	non-eval comp covert std	eval comp covert std	non-eval comp overt std	eval comp overt std
		[+comp]	[+comp,+eval]	[+comp]	[+comp,+eval]
[+f]	ya-bi	ya-bi	ya-bi	t¢ ^h o ya-bi	t¢ ^h o ya-bi
[—f]	ηίηί	ηίηί	ya-nini	t¢ ^h 0 nini	tc ^h o ya-nini

 Table 1. Positives and Comps

	equa	equa	degq	degq	exclam
	[-eval]	[+eval]	[-eval]	[+eval]	[+eval]
[+f]	da pa-bi	*da pa-ya-bi	ts ^h o pa-bi	tsho pa-ya-bi	tsho pa-ya-bi
[-f]	da pa-nini	da pa-nini	ts ^h o pa-กุiกุi	ts ^h o pa-กุiกุi	ts ^h o pa-ղiղi

 Table 2. Equatives, DegQs and Exclams

The form "pa-ya-bi" is ungrammatical with no sensible readings. An impoverishment rule is used to rule out this form.

 $[+/-\text{eval}] \Rightarrow \emptyset/$ AsP (13)

Note: Assume there is an EvalP (maybe above DegPs) that gives rise to an evaluative interpretation as well as giving the [+ eval] feature to the terminal node a. With the impoverishment rule, the feature [+/- eval] is deleted in the presence of AsP (at the PF). So even if an EvalP is present in the syntax, the terminal node a does not get a [+ eval] feature, hence a is never spelled out as ya- in equatives.

Semantic translations (Svenonius & Kennedy 2006; Alrenga et al. 2012)

(14)	a.	$\sqrt{bi} \Leftrightarrow \lambda d. \ \lambda x. \ \text{height}(x) \ge d$
	b.	pos $\Leftrightarrow \lambda G_{\langle d, et \rangle}$. λx . $\exists d[standard(d)(G)(C)]$
	С.	$\operatorname{comp} \Leftrightarrow \lambda G_{\langle d, et \rangle}$. $\lambda d. \lambda x. \sup(G(x)) > d$
	d.	than $\Leftrightarrow \lambda y. \lambda G_{\langle d, et \rangle}. \lambda x. \sup(\lambda d. G(d)(x))$
	e.	equa $\Leftrightarrow \lambda G. \lambda d. \lambda x. \sup(G(x)) \ge d$
	f.	as $\Leftrightarrow \lambda y. \lambda G. \lambda x. \sup(G(x)) \ge \sup(G(y))$

tə-wo sepε tcho ***(ya-)b**i.

peach this plum than ya-big

Equatives and DegQs

- a. Equa ⇔/pa-/
- b. As \Leftrightarrow /da/
- How ⇔/ts^ho/

- $G)(C) \wedge G(d)(x)]$ > d $d)(x)) > \sup(\lambda d. \ G(d)(y))$

(15)a. siya ya-bi b. *siya* nini PosP PosP siya siya Pos \sqrt{nini} a_{+eval} \sqrt{bi} a_{+f,+eval}

Equatives, DegQs and Exclams (da pa-bi vs. ts^h o pa-bi vs. ts^h o pa-ya-bi) (16)(I assume that Ersu DegQs are formed based on equatives, e.g. 'siya is as tall as what degree'.)



Pragmatic competition (Key to RQ3)

The proposed analysis gives a set of form-meaning pairs that can be further sent to Pragmatic competition. Two opposing markedness rules are in play, one preferring the less marked of two synonymous forms (cf. Horn's R-principle), and one preferring less marked interpretations (Horn's Q-principle).

- non-evaluative reading
- Class B & C: ya- gives rise to an evaluative reading
- antonyms for non-evaluative interpretations
- ya- is needed for Class B & C

Discussions and remaining questions

- alignment under the framework of DM.
- class of "adjectives".

Sample derivations



Class A roots: Always ambiguous between an evaluative and a

Degree questions: Negative antonyms are competed out by positive

Exclamatives: ya- gives rise to an exclamative interpretation for Class A; no

• The features (e.g. comp, eval) essential for this analysis are closely related to the semantics, raising a broader question of formal and semantic

Color and flavor modifications in Ersu make use of the inchoative forms. When putting into comparatives, an additional ya- is often required (cf. Siya da- ηi 'This peach is red' vs. Siya sepe tg^ho **ya**-da- ηi 'This peach is more red than plums'. Revision of this analysis is necessary to account for this