

Yauyos Quechua Evidentials and Evidential Modifiers
 Aviva Shimelman, NEH-NSF DEL Fellow
 San José State University

This paper examines the evidential system of Yauyos (ISO 639-3: [qux]), a hitherto undocumented, extremely endangered Quechuan language of Peru. Yauyos, like other Quechuan languages, counts three evidential affixes: direct (-*mI*), reportative (-*shI*), and conjectural (-*chrI*), as in (1), (2), and (3).¹ Yauyos is unusual, however, in that each of its three evidentials counts three variants, formed by the affixation of the evidential modifiers ("EM's"), - \emptyset , -*k*, -*ki*, to the base form. Evidentials obligatorily take modifiers; modifiers attach exclusively to evidentials. With all three evidentials, the -*k* form is associated with some variety of increase over the - \emptyset form, and the -*ki* form with greater increase still. In the default case, the EM's indicate an increase in strength of evidence. With DIRECT -*mI*- \emptyset /*k*/*ki* and REPORTATIVE -*shI*- \emptyset /*k*/*ki*, the EM's then generally affect the interpretation of strength of assertion, with -*k* and -*ki* indicating increasingly strong assertions, as in (1) and (6); with CONJECTURAL -*chrI*- \emptyset /*k*/*ki*, the EM's affect the interpretation of certainty of conjecture, with -*k* and -*ki* indicating increasingly certain conjectures, as in (4) and (5). In case the evidential takes scope over a modalized verb, the modifiers then generally affect the interpretation of the force of the modal: with universal-deontic and future-tense verbs, for example, -*k* and -*ki* generally indicate increasingly strong obligations or imminent futures, respectively, as in (7) and (8).

I argue that interpretation is pragmatic. $\langle -\emptyset, -k, -ki \rangle$ forms a Horn scale that gives rise to conversational (quantity) implicatures. That a speaker uses the a weaker EM entails that she couldn't have used a stronger form. I model this making use of Schulz and van Rooij's (2004, 2005, 2006) model-theoretic formalization of Grice's Principle.

Gricean interpretation is described by selecting minimal models, selection taking place among those possibilities where the speaker knows *P* and the order that determines minimality compares the strength of evidence of evidence type *EV* that the speaker has for *P*. The sentence $\mathbf{K}^{EV,EM}P$ 'the speaker knows *P* by *EV-EM*' (wrt *W* and *R*) is: defined in *w* if the speaker has evidence for *P* of type *EV* of and strength *EM* in *w*; is true in *w* if $P=T$ in every world in $R(w)$, $w \in R(w)$. The order $\leq_{EM,S}$ ranks possibilities in terms of the extent of the speaker's evidence of type *EV*. φ is evidence for ψ if the conditional probability of ψ given $\varphi=T$ exceeds the conditional probability of ψ $\varphi=F$ (McCready(2010)).

DEFINITION (*Interpreting evidentially-marked sentences according to the Gricean Principle*)

Let EM be an evidential modifier and S be a pair of a predicate P and a pair of an evidential type EV and evidential modifier EM in context C = $\langle W, R \rangle$. Define the pragmatic interpretation $grice_{SvR}^C(EM, S)$ of EM wrt S and C

$$grice_{SvR}^C(EM, S) =_{def} \{w \in [\mathbf{K}^{EV,EM}P]^C \mid \forall w' \in [\mathbf{K}^{EV,EM}P]^C : w \leq_{EM,S} w'\}$$

¹ Citations are to recordings made by the author during the course of the documentation of the language. The glossed recordings may be retrieved from the DoBeS archive. http://corpus1.mpi.nl/ds/imdi_browser

- 1 *Oka-ta qasa-mu-n-mi-Ø kay-paq*
oca-ACC freeze-CIS-3-EVD-Ø DEM.P-LOC
'Oca freezes around here.' (LlankaTravel, 05:09-12)
-Ø DIRECT present: evidence from personal experience, utterance is a neutral assertion
- 2 *Qari-n-ta-sh-Ø wañu-ra-chi-n masha-n-ta-sh-Ø wañu-ra-chi-n*
man-3-ACC-EVR-Ø die-PRF-CAUS-3 son.in.law-3-ACC-EVR-Ø die-PRF-CAUS-3
'She killed her husband, they say; she killed her son-in-law, they say.' (ViñacGrandparents3, 37:28-35)
-Ø REPORTATIVE past: evidence is secondhand, utterance is a neutral assertion
- 3 *Alma-yuq ka-ya-n-chri-Ø*
soul-POSS be-PROG-3-EVC-Ø
'She must be with a soul [of a recently dead relative].'
(YuracsayhuaSoul, 01:59-02:01)
-Ø CONJECTURAL present: evidence is either personal or secondhand, utterance is a neutral conjecture
- 4 *Chay-chri-k mana chaski-rqa-chu*
DEM.D-EVC-K no accept-PST-NEG
'That's why it wouldn't have received it.'_{EMPH}
(ViñacGossip, 2:18-21)
-k CONJECTURAL past: strong speaker certainty in conjecture
- 5 *Anu-ya-n-ña-chri-ki*
wean-PROG-3-DISC-EVC-KI
'She must be weaning [him], for sure.'
(ViñacMilking, 00:55-57)
-ki CONJECTURAL present: strongest speaker certainty in conjecture
- 6 *Prisiyu-n-pis ka-n-mi-ki chakiruptinqa*
price-3-ADD be-3-EVD-KI dry-URGT-SUBDS-3-TOP
'They have their (high) price when you dry them.'
(ViñacMilking, 16:08-10)
-ki DIRECT present: strongest assertion, increase in degree of the predicate, 'pricy'
- 7 *Ri-shaq. Yaku-ta-chri-ki qawa-mu-shaq*
go-1.FUT water-ACC-EVC-KI see-CIS-1.FUT
'I have to go. I have to take care of the water now'.
(TanaOrchard, 30:39-43)
-ki CONJECTURAL universal deontic: strongest obligation, urgency
- 8 *Kuka-cha-n-kuna-ta apa-ru-pti-y-qa tiya-pa-wa-nga-chri-k*
coca-DIM-3-PL-ACC bring-URGT-SUBDS-1-TOP sit-BEN-1.OBJ-3.FUT-EVC-K
'If/when I bring them their coca, they will accompany me sitting.'_{EMPH}
(ViñacCure1, 0:27-32)
-k CONJECTURAL future: close/certain future

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