Re-assessing the source language of a purported Kaxwaan (Yuman) word list

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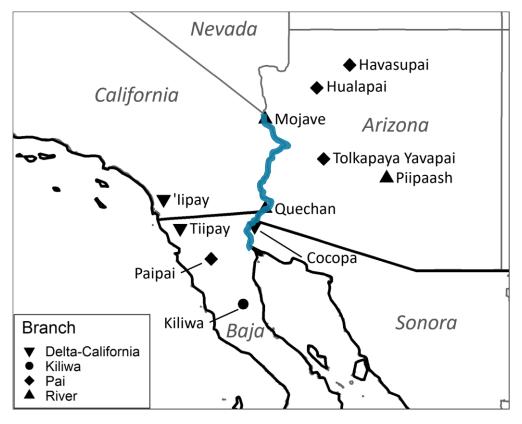
Introduction

- I analyze the source language of a **Yuman** wordlist collected in 1963.
 - Crawford (1963) originally identified the source language as Piipaash.
 - Crawford (1966, 1983) later identified the source language as **Kaxwaan**, and other sources have since repeated this claim (Laylander 1997, Golla 2011).
- Kaxwaan is known through two wordlists collected in 1921 and 1930.
 - Kaxwaan continued to be spoken at least until 1930, but it is now dormant.
 - Crawford's claim shifts the timing of Kaxwaan's dormancy by a generation.
- I show that the language in this wordlist exhibits marked linguistic features (lexical, phonological, morpho-syntactic) that **identify it as Piipaash, not Kaxwaan**.

Kaxwaan and the Yuman language family

A brief Kaxwaan historical outline

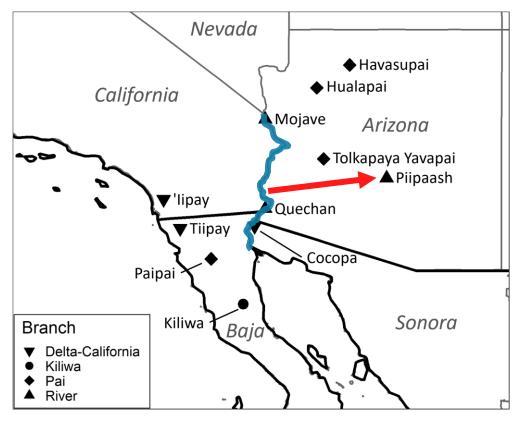
- The **Kaxwaan** are one of five historically distinct Yuman groups that had formerly lived along the lower Colorado River but now comprise the **Piipaash** people (a.k.a. "Maricopa"; Spier 1933, SRPMIC CRD n.d.).
 - The Piipaash, Xalychidom, and Kavelychidom lived along the Colorado River, between the Mojave and Quechan.
 - The Kaxwaan and Halyikwamai lived south at the Colorado River Delta, near the Cocopa.
 - All five groups were allied with the Cocopa (cf. Piipaash-Cocopa lexical borrowings; Geary 2022).



Map 1. Modern distribution of Yuman languages.

A brief Kaxwaan historical outline

- All five groups gradually abandoned the lower Colorado River and settled along the Gila and Salt Rivers near Phoenix, AZ c.1500s-1845 (e.g. Harwell 1979, Spier 1933).
 - The Kaxwaan and Halyikwamai departed the Colorado around 1820 and settled by 1840.
- Members of these groups intermarried and assimilated, such that the Gila and Salt River communities today exhibit a more unified "Piipaash" identity (e.g. Harwell and Kelly 1983, SRPMIC CRD n.d.).



Map 1. Modern distribution of Yuman languages.

The Yuman language family

- Members of these groups spoke dialects of two Yuman languages (Figure 1).
 - Kaxwaan (Delta-California Yuman) and Piipaash (River) are only distantly related.

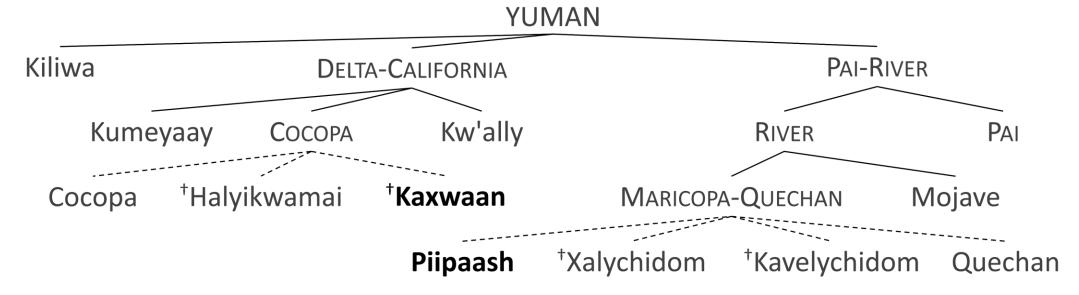


Figure 1. Yuman language family tree, simplified from Kroeber (1943) and Miller (2018). Languages of interest here are in bold. Historical dialects are indicated by dashed lines. † = dormant.

Cocopa, Kaxwaan, and Halyikwamai

- Based on scant Kaxwaan linguistic data and on impressionistic reports of their similarities, linguists identify Cocopa, Kaxwaan, and Halyikwamai as dialects of the same Delta-California language (Geary 2021a, Kroeber 1943).
- Cocopa is relatively well-documented (e.g. Crawford 1966, 1983, 1989).
- Kaxwaan is known linguistically through a 220-word wordlist collected by Alfred L. Kroeber in 1930 (analyzed and partly published in Kroeber 1943) and a 50-word list collected by Edward H. Davis in 1921 (analyzed in Geary 2021a).
- There is no known linguistic documentation of Halyikwamai.
 - Kroeber's (1930, 1943:21–22) Kaxwaan consultant reported that Kaxwaan and Halyikwamai were "identical speech" (but this could mean only that they shared cognates; Miller 2018:416).

Kaxwaan language data

- Linguistically, Kaxwaan is known only from two short wordlists (c.1920s):
- Davis (1921) 50-word list from a 65yo Piipaash-born Kaxwaan woman.
 - Davis was a photographer who lacked linguistic training and adapted English spelling conventions to transcribe Kaxwaan speech (e.g. "u" = [a], "lsch" = [t]).
- Kroeber (1930) **220-word** list from old, migration-born Kaxwaan woman.
 - Kroeber (1943) published less than half of this list in his classificatory analysis.
- Geary (2021a) analyzed these lists and showed that the Kaxwaan of the 1920s exhibits minimal evidence of borrowing/influence from Piipaash.
 - Kaxwaan continued to be spoken at least into 1930, but it is now dormant.

Kaxwaan language data – A third wordlist?

- In 1963, James M. Crawford collected ~540 words and sentences from a Piipaash woman who was born near Gila River in 1892 (initials: "JY").
- In his original fieldnotes, Crawford identified JY as a speaker of **Piipaash**.
- Crawford (1966:3–4, 1983:567) subsequently identified JY as a speaker of Kaxwaan, writing that "[n]o significant difference is apparent between Cocopa and [Kaxwaan] in either my list or Kroeber's" (1966:4).
- More recent sources have repeated this claim (Laylander 1997:9, Golla 2011:120), asserting that Kaxwaan continued to be spoken at least into the 1960s.
 - Crawford (1966:4) and Laylander (1997:9) identify JY as "the last [Kaxwaan]".

Kaxwaan language data – A third wordlist?

- If it were true that JY was a Kaxwaan speaker, then this wordlist would represent a significant document in the linguistic study of Kaxwaan.
 - Crawford (1963) is **longer** than Davis (1921) and Kroeber (1943) combined, and neither of those resources contain any **Kaxwaan sentences**.
 - This would shift the timing of Kaxwaan's dormancy by at least a generation.
- I find the shift in Crawford's identification of this language suspicious......
 - Crawford (1966, 1983) does not acknowledge this shift in identification............
 - I have worked with Davis (1921) and Kroeber (1930), as well as Crawford (1963) as a Piipaash wordlist; I have never had reason to doubt this identification......
- I compare Crawford (1963) with Piipaash, Kaxwaan, and Cocopa data......

Comparison of Crawford (1963) with Piipaash, Kaxwaan, and Cocopa data

Comparison of Crawford (1963)

- Crawford (1966:4) wrote that "[n]o significant difference is apparent between Cocopa and [Kaxwaan] in either my list or Kroeber's".
 - This would be an easy claim to refute: Piipaash and Cocopa/Kaxwaan are very different......
- I compare the data that Crawford (1963) collected with independent **Piipaash** (Langdon et al. 1991), **Kaxwaan** (Davis 1921, Kroeber 1930), and **Cocopa** data (Crawford 1989) in order to evaluate this claim.
- Indeed, JY's speech exhibits linguistic features (phonological, lexical, and morpho-syntactic) that identify it as Piipaash and not Kaxwaan/Cocopa, consistent with Crawford's original identification of the source language (1963) but inconsistent with subsequent claims (1966, 1983)......

Phonological features consistent with Piipaash

- A major phonological correspondence distinguishing the River languages (Piipaash, Mojave, and Quechan) from other Yuman languages stems from the strengthening of **Proto-Yuman** *w, *y > River v, \eth (Miller 2018, Wares 1968).
- JY uses v where one would expect of a River language/Piipaash:

'two' JY xavík Piipaash xvík Kaxwaan xowák, Cocopa xwák

• 'mouse' JY ʔa**v**É' Piipaash ʔa**v**éː Kaxwaan a**w**ā-, Cocopa ʔa**w**áː

• 'rock' JY (?)əvíː Piipaash (?)víː Kaxwaan "wî-, Cocopa wíː

• JY uses \eth where one would expect of a River language/Piipaash:

• 'eye' JY ʔɪðó Piipaash iːðó Kaxwaan īyú-, Cocopa ʔiyú

• 'doctor' JY k^wɪsɪːðĕé⁽ⁱ⁾ Piipaash k^wsiðé Kaxwaan kwuci**y**ā-, Cocopa ṣk^wiː**y**áː

Phonological features consistent with Piipaash

- Other, minor phonological correspondences further identify JY's speech as Piipaash and as being distinct from Kaxwaan or Cocopa (cf. Wares 1968).
- JY uses č where Piipaash č corresponds to Kaxwaan/Cocopa s:

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• 'fish' JY ʔɪčíː Piipaash číː Kaxwaan siʔíL, Cocopa siʔíl<sup>y</sup>
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- 'four' JY čompép- Piipaash čmpáp- Kaxwaan sabáp', Cocopa spáp
- 'be cold' JY xačóːr Piipaash xčúr- Kaxwaan -----, Cocopa xsúːr
- JY uses k^y where Piipaash k^y corresponds to Kaxwaan/Cocopa k:
 - 'seven' JY paxkyéː- Piipaash pxkyéː- Kaxwaan peXkát, Cocopa pxkáː
 - 'stepson' JY ʔɪkʰɪṣ- Piipaash kʰés- Kaxwaan -----, Cocopa kás/káːs
 - 'pestle' JY xmʊ**k**^yéh Piipaash ----- Kaxwaan -----, Cocopa xmuː**k**áː

Lexical features consistent with Piipaash

• JY uses a range of non-Kaxwaan lexical items that occur in Piipaash:

'coyote'	JY xatəlwí	Piipaash xatl ^y wé	Kaxwaan xatpá-, Cocopa xṭpá
• 'm. dove'	JY xoşk ^y ev ^ə k	Piipaash xošk ^y évk	Kaxwaan yelekū-, Cocopa lkúː/liːkúː
• '(g.h.) owl'	JY mamðíː	Piipaash mmðíː	Kaxwaan, Cocopa cuːpíːc
• 'hair'	JY hiʔé	Piipaash i?é/e?é	Kaxwaan emaxwáL, Cocopa mx ^w áł
• 'hip'	JY čəqə́ş	Piipaash čqáš	Kaxwaan e?pa?úL, Cocopa (m)p?úːł
• 'shoulder'	JY məşk ^y íl ^y	Piipaash mškíː	Kaxwaan, Cocopa ṣpíːr
• 'be blue'	JY xav ^ə şúː	Piipaash xvšúː-	Kaxwaan xapicîw-, Cocopa xpsíw
• 'be yellow'	JY k ^w és-	Piipaash k ^w és-	Kaxwaan aqwáce, Cocopa q ^w áṣ
• 'be little'	JY nóq-	Piipaash nnóq-	Kaxwaan lyutcác, Cocopa l ^y cáš
• 'bow'	JY ?oːţíːṣ	Piipaash ?uːtíːš	Kaxwaan itcím ⁻ -, Cocopa ʔiːcím

Morpho-syntactic features consistent with Piipaash

- JY uses -k/-m realis suffixes on individually elicited verbs as well as in sentences (1), which are a feature of Piipaash (2) and not Cocopa (3):
 - 1) ?ɪpáː-ṣ ma-yúː-k man-sı 3/2-see-REAL 'The man sees you.' (JY; Crawford 1963)
- 2) ?iːpáː-n^y-š m-yúː-**k**man-DEM-SJ 3/2-see-**REAL**'The man saw you.'
 (Piipaash; Gordon 1986:37)
 - 3) p-aː-wíː-c3OBJ-1SJ-see-PERF'I saw him.'(Cocopa; Crawford 1966:194, 1989)

Morpho-syntactic features consistent with Piipaash

- JY uses -k/-m realis suffixes on individually elicited verbs as well as in sentences (4), which are a feature of Piipaash (5) and not Cocopa (6):
 - 4) n^yáː maríːk ?-máː-**m**I bean 1-eat-**REAL**'I eat beans.'

 (JY; Crawford 1963)
- 5) ?ayuː-?-máː-m something-1-eat-REAL 'I am eating/ate something.' (Piipaash; Gordon 1986:154)
- 6) mcpák má-c without eat-PERF 'l eat with nothing (i.e. no fork/spoon).' (Cocopa; Crawford 1989:133)

Morpho-syntactic features consistent with Piipaash

- JY uses a **subject suffix -ş (7) that is consistent with Piipaash -š (8; Gordon 1986:37–40)** rather than Cocopa -c (9; Crawford 1966:104):
 - 7) Pipáː-s xát yúː-k man-sJ dog see-REAL 'The man sees the dog.' (JY; Crawford 1963)
- 8) Bonnie-š ?iːpáː-ny-a mxán-k Bonnie-SJ man-DEM-AUG like-REAL 'Bonnie likes that man.' (Piipaash; Gordon 1986:41)
- 9) qwáqš-c xasány p-aː-ṣáː-c horse-sJ little.girl 30BJ-3SJ-bite-PERF 'The horse bit the little girl.' (Cocopa; Crawford 1966:186, 1989)

Linguistic features consistent with Kaxwaan

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Interim summary

- JY's speech exhibits marked linguistic features identifying it as Piipaash (i.e. as Crawford had originally identified it) rather than Kaxwaan/Cocopa.
 - Phonological features include River Yuman v, \eth , as well as \check{c} , k^y (cf. Cocopa s, k).
 - Lexical features include River/Piipaash animal, body part, color terms, etc.
 - Morpho-syntactic features include River/Piipaash realis -k/-m, subject -ṣ/-š.
- Crawford's (1966:3–4, 1983:567) subsequent claims (1) that JY spoke Kaxwaan and (2) that the contents of this wordlist exhibit "[n]o significant differences" compared to Cocopa are **demonstrably false**.

What can we make of Crawford (1963)?

The state of Kaxwaan linguistics

- Crawford (1963) collected a list of 540 Piipaash words and sentences.
 - This is not a bad thing: Piipaash is also relatively under-documented.
 - Geary (2021b), for example, uses the Crawford (1963) data to study variation in the realization of lateral consonants (I, I) in Piipaash.
- But it does mean that the linguistic documentation of Kaxwaan is still restricted to the short Davis (1921) and Kroeber (1930) wordlists.
 - We have virtually no documentation of Kaxwaan morpho-syntax.....
- The timing of Kaxwaan's dormancy remains unclear, in that we only know that it continued to be spoken at least until 1930 (Geary 2021a).

How did Crawford mistake this for Kaxwaan?

- It is not clear how Crawford mistook JY's speech for that of a Kaxwaan speaker (especially given that he had correctly identified it as Piipaash originally).
 - Crawford was an expert on Cocopa and should have been able to recognize the many differences between JY's speech and Kaxwaan/Cocopa.....
 -I speculate that Crawford may have mistook Kroeber's Kaxwaan data for his own.......
 - In contrast, neither Laylander (1997) nor Golla (2011) are Cocopa/Piipaash scholars and were simply repeating Crawford's (1966, 1983) claim.
- This highlights a need to continually scrutinize claims in the linguistic literature.
 - A parallel: Missionary Marcus Whitman asserted that Cayuse and Molala (both now dormant) were the same language in an 1844 letter to Horatio Hale, who would later assign Cayuse and Molala to a Waiilatpuan language family in his language classification (1846). Scholars repeated this claim for over a century, until Bruce Rigsby (1965) compared the Cayuse and Molala data and determined that there was insufficient evidence to support a genetic affiliation.

Summary

- Crawford (1963) collected a list of words and sentences that he identified then as Piipaash but subsequently identified as Kaxwaan (1966, 1983).
- Crawford collected this data from a Piipaash speaker: It exhibits phonological, lexical, and morpho-syntactic features typical of Piipaash and not Kaxwaan.
 - This contradicts his later claim that the language in this list exhibits "[n]o significant difference" from Cocopa (1966:4), a dialect of the same language as Kaxwaan.
 - There is no linguistic evidence to support that JY was a Kaxwaan speaker. The claim that she was "the last [Kaxwaan]" ethnically also originates from Crawford (1966:4).
- Two short wordlists remain the only linguistic documentation of Kaxwaan.
 - Kaxwaan may have continued to be spoken after Kroeber collected his wordlist in 1930, but we have no linguistic documentation of Kaxwaan from later periods.

Thanks!

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