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Serial and other multi-verb constructions in the Kalahari Basin Area (KBA)

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1. Introduction

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+ Serial verb construction (henceforth SVC) – one of various types of multi-verb construction (henceforth MVC), aka "verb-based complex predicates"

- standard SVC definitions focus on the absence of an overt sign that any of the combined verbs is morpho-syntactically "linked" and/or "deranked":

unmarked juxtaposition of two or more verbs or verb phrases (with or without subject and/or object), each of which would also be able to form a sentence on its own (Bisang 1995: 139)

sequence of verbs which act together as a single predicate, *without any overt marker of coordination, subordination, or syntactic dependency of any other sort* (Aikhenvald 2006: 1)

monoclausal construction consisting of multiple independent verbs *with no element linking them and with no predicate-argument relation between the verbs* (Haspelmath 2016: 292)

- + we focus here on two points:
 - a) considerable linguistic convergence of unrelated languages in the Kalahari Basin area regarding MVCs irrespective of structural properties
 - b) the question of distinguishing SVCs from other MVCs
- > we do not treat the entire inventory of MVCs, which is larger and also involves types with overt segmental marking

2. Multi-verb constructions in the Kalahari Basin area (KBA)

2. Multi-verb constructions in the KBA

3. Summary

- + Non-Bantu languages in southern Africa formerly subsumed under a "Khoisan" family (Greenberg 1963)
- rather constitute a convergence area "Kalahari Basin (area) (KBA)" (cf. Güldemann 1998, Güldemann and Fehn 2017)
- languages classified genealogically into three families:

FamilySyntaxTuu + Kx'a (Non-Khoe type):head-initialKhoe-Kwadi:head-final



Map 1: Languages and three lineages of the KBA

- + KBA defined by numerous isoglosses, notably semantic-functionally parallel multi-verb constructions which are mostly analyzed as SVCs
- > extensive literature:

TuuTaa:Traill (1994), Güldemann (2013c, f) Kießling (2013)!Ui:Güldemann (2013d) on |Xam

- Kx'a
 Ju:
 Collins (2003), Dickens (2005), König (2010), Pratchett (2022)
 Collins (2002, 2003), Berthold & Gerlach (2017)
- KhoeKalahari Khoe:Kilian-Hatz (2008) on Caprivi Khwe, Visser (2010) on Naro
Khoekhoe:Khoekhoe:Haacke (1999, 2014), Rapold (2014)

2.1 Serial verb constructions in Non-Khoe

+ numerous semantic SVC types shared across unrelated head-initial Non-Khoe KBA languages
- predominantly of the "nuclear"/"root serialization" type (cf. Olson 1981, Foley & Van Valin 1984)

> we present here a selection of types from two unrelated languages: under a. = Ju|'hoan dialect of Ju (Kx'a family) under b. = West !Xoon dialect of Taa (Tuu family)

- list not complete but illustrates the extent of shared types across the area

- a language (group) is also considered to possess a type, if synchronically grammaticalised

Sequential cause-effect

- (1)a. útò n+àq'ú !àò jù
 1.car knock fall.down 1.person
 The car knocked the person over. (Dickens 2005: 81)
- b. \acute{n} $n\check{a}$ $\grave{a}qhr\grave{e}$ $qx'\grave{u}\grave{e}$ $n||\grave{a}h\grave{e}|$ 1SG PERF destroy bring.down.SG:3i > house.3i I have demolished the house. (Kießling 2013: 43)

Dative/Benefactive

- (2)a. tè ká hà kấ *l'ainl'ain l'àn hà kòm*CLCO when PRO1 IPFV warm.up give PRO1 FG
 And just as she was warming it up for him, [...]. (Pratchett, in prep.)
- b. *n* si *n*//*are k*i *n*/*uri n*/*aa* (n|aV < *n|aa 'give', rare core serialization)
 1SG IPFV tell MPO:1 > story.1 DAT:2SG
 I tell you a story (Güldemann field notes)

Path (V1 + 'enter', 'descend', etc.)

- (3)a. n/òqm kòàq tè g/àè g!à'àmá dòm
 1.springhare afraid CLCO arrive enter 4.hole
 The springhare was afraid and went into a hole. (after Biesele 2009: 23)
- b. *ě* sí sín+àhrá úqín kà /"áàn súè
 PRO3i IPFV push insert.SG:1SG LOC:2ii > fire.2ii inside.2ii
 He pushes me into the fire. (Kießling 2013: 55)

Accompanying manner

- (4)a. dà'ábí!óá tshí ű
 2.children laugh go
 The children went off laughing. (Pratchett, in prep.)
- b. *ń* sí g/óqhán 'n∤àqá kě n∥àhè súè
 1SG IPFV limp go.out.SG LOC:3i > house.3i inside.2ii
 I am limping out of the house. (Kießling 2013: 48)

Centripedal (vs. centrifugal) motion (V1+'come')

- (5)a. mí mí gòàq kx'àè tsí-á à
 1SG ? R.PST get come-VE 2SG
 I brought you [here], [...]. (Pratchett, in prep.)
- b. *ń* sí *n!àhàn sáì kě n∥àhè*1SG IPFV walk come LOC:3i > house.3i
 I am walking up to the house (hither). (Kießling 2013: 41)

Centrifugal (vs. centripedal) motion (V1+'go')

- (6)a. kátò'à hà kx'àè ú-á hà ...
 when PRO1 get go-VE PRO1
 Once he had taken him [there], [...]. (Pratchett, in prep.)
- b. *ń* sí *n!àhàn sáà kě n∥àhè*1SG IPFV walk go LOC:3i > house.3i
 I am walking up to the house (thither). (Kießling 2013: 41)

Phasal aspect (V1 + 'finish', 'continue', etc.)

(7)a. mí tè 'm tòàn ká tè tchì tòàn ká
1SG ? eat finish PRO4 CLCO drink finish PRO4
[It is] I [who'll] eat it all up and drink it all up. (Biesele 2009: 19)

b. *ě* yă *áàn* /*"ùrí ⊙á*ì
PRO3i PERF eat finish:1 > meat.1
He has eaten up the meat. (Kießling 2013: 51)

2.2 Verb-juncture constructions in Kalahari Khoe vs. SVCs in Non-Khoe

+ verb-juncture constructions in **head-final** Kalahari Khoe as most salient MVC

three major contexts of "juncture" related via grammaticalization of V2 (cf. Voßen 1997, 2010)
 > Figure 1



Figure 1: Three functions of verb-juncture constructions and historical relationships

+ three types of verb-juncture constructions in Ts'ixa: MVC under a., derivation under b., TAMP under c.

- (8)a. g/ínì-sì tè xalasí-m /xè //ábu-a ngéè
 fly-F.SG IMM.PST glass-M.SG next.to fly-JUNCT pass
 The fly just flew past the glass.
- b. kuú-m kà tí kò tí kà /úán-sà 'à tyúun-a-ma [-ma < 'give']
 dress-M.SG MPO 1SG IPFV 1SG POSS child-F.SG OBJ buy-JUNCT-BEN
 I buy the dress for my daughter.
- c. *tí tsxaan-hàn* [juncture suffix assimilated to verb root, -hàn < 'exist']
 1SG become.tired:JUNCT-STAT
 - I am tired. (Güldemann and Fehn 2016, < Fehn field notes)

+ verb-juncture construction type under a. is functionally highly similar to Non-Khoe SVCs

> we present here a selection of types from two unrelated languages:
 under a. = N!aqriaxe dialect of the Non-Khoe language ‡'Amkoe (Kx'a)
 under b. = Ts'ixa of the Kalahari Khoe branch of Khoe (Khoe-Kwadi) with the juncture suffix

- list not complete but only illustrates the extent of shared types across the area
- a language (group) is also considered to possess a type, if synchronically grammaticalized

Sequential cause-effect

- (9)a. mā ēn !'áú 'n/áá
 1SG TAM fall sit
 I fell into a sitting position.
- b. $nox \acute{a} = \acute{m}$ $\acute{n} = m \grave{a}$ $t\acute{t}$ $k\grave{o}$ $mu \grave{u}n-\grave{a}$ $\grave{a}\grave{a}n$ snake = M.SG DEM.REF = M.SG 1SG IPFV see-JUNCT know I recognize this snake. (Güldemann and Fehn 2017: 510)

Dative/Benefactive (V1 + 'give')

(10)a. mā yā n/ūbō súú āmà sì n!áā
1SG IPFV talk give 1SG.POSS POSS friend
I talk for my friend.

b. 'ém` tí 'à k'oxú ká **‡uùn-à-mà** (mà < 'give')
3M.SG 1SG OBJ meat MPO buy-JUNCT-BEN
(I asked him) to buy meat for me.
(Güldemann and Fehn 2017: 511)

Path (V1+'enter', 'descend', etc.)

(11)a. mā yā !hhōōn /"òò bōksī kì !ōà nā
1SG IPFV push enter box MPO house LOC
I am pushing the box into the house.

b. nguú = m´ 'à tí kò g∥ai-a ky'oà
 house = M.SG LOC 1SG IPFV run-JUNCT exit
 I run out of the house.
 (Güldemann and Fehn 2017: 511)

Accompanying manner

- (12)a. *mā* nà *∥qx'áā* tsáá
 1SG TAM sing come
 I am coming while singing.
- b. tí kò pere g∥àì
 1SG IPFV flee:JUNCT run
 I run like a fugitive.

(Güldemann and Fehn 2017: 510-1)

Accompanying posture ('sit', 'stand', 'lie' etc. + V2)

(13)a. mā !úí !ōā n/úbō
1SG raise stand talk
I talk standing.

b. tí kò nyúun-a *l*'àm katsí=sà 'à
1SG IPFV sit-JUNCT beat cat=F.SG OBJ
I beat the cat sitting. (Güldemann and Fehn 2017: 511)

Perfect/current relevance (V1 + 'exist')

(14)a. tyàmà ' $n/\bar{a}\bar{a}$ \bar{a} kì kātàbòksì $n!\bar{a}qrè$ (\bar{a} < 'exist)'</th>dog sitRELVMPO boxbottomThe dog sits at the bottom of the box.SitSit

b. tí **tsxaan-hàn**

1SG become.tired:JUNCT-STAT I am tired. (han < 'exist')

(Güldemann and Fehn 2017: 511)

- + functional similarity of verb-juncture constructions to SVCs motivated some scholars to subsume them under SVCs despite formal properties contradicting mainstream definitions
- Kilian-Hatz (2006) for Khwe: juncture = "pure [SVC] construction marker" (ibid.: 111)

The morpheme 'II' [aka juncture TG] is also suffixed obligatorily to each verb in an SVC except to the last one. [...] the morpheme 'II' in Khwe functions as a pure construction marker in SVCs and does not have any coordinating or subordinating function anywhere else in the grammar.

- Haacke (2014) for Khoe in general and Khoekhoe in particular
- > cf. ComPLETE project description regarding "Khoisan"!

- 3 juncture functions cannot be subsumed under a single construction (e.g., canonical SVC)
- modern Khoe construction is likely to go back to a [**non-finite** + finite verb] construction inherited from Proto-Khoe-Kwadi (Güldemann and Fehn 2016)
- (15) *[[ROOT-(a)RA]_{DEPENDENT} = $ROOT_{HEAD}$]
- + juncture suffix both synchronically and diachronically a morpho-syntactic linker that has scope over the preceding verb root and marks it as dependent regarding the following verb
- > V1-JUNCTURE-V2 construction is not SVC-like according to mainstream definition

2.3 Multi-verb constructions without a "juncture" in Khoekhoe

- + Khoekhoe branch of Khoe lacks the segmental juncture morpheme but is rich in linkerless MVCs analyzed as serial or compound verbs (both lexicalized and productive)
- > Güldemann (2006: 117-9) proposes that such complex predicates have been influenced by canonical SVCs of Non-Khoe through specific substrate interference by !Ui languages (Tuu)
- specific MVC types with a scattered distribution provide more robust evidence for contact
 non-causative S/A-switch SVCs attested so far only in:

Ju	(but no other Kx'a)	> (16)a.
Xam	(but no other Tuu)	> (16)b., and
North Khoekhoe	(but no other Khoe)	> (16)c.

- |Xam and North Khoekhoe belong to the Cape contact area

Non-causative S/A-switch SVC

- (16)a. $h\ddot{a}$ tsí g/à \dot{e} sè cú-á /Ari kò //ʾámí PRO1_x come arrive _xsee_y _ylie-VE PN_y MPO 4.middle He came and saw |Ari lying in the middle. (Pratchett field notes)
- b. *si* tang ||'a-ng dố'a $n|\tilde{i}$ tếe !k'waa aa |uuk-a 1PL.E_x ? go-and ? _xsee_{y y}lie hartebeest.1_y 1REL die-STAT We did go and see a dead hartebeest lying there! (Bleek and Lloyd 1911: 10-1)
- c. audo-s-a ra $m\hat{u}$ **!goaxa** car-F.SG-OBJ_y IPFV _xsee_y _yapproach see a car approaching. (Haacke 1995: 357)

1. Introduction

+ N. Khoekhoe calque with quirky linear syntax of pivot detached from its verb with S/A role

(17)a.	•••	[[<i>n</i> /ĩi	tẽe] !k'waa]	"Root" MVC		
		see	_y lie hartebeest.1 _y	[V O]		
	see a (dead) hartebeest lying (there). (Bleek and Lloyd 1911: 10-1)					
Ъ.	[audo-s-a ra	[mû	!goaxa]]	"Root" MVC		
	car-F.SG-OBJ _y IPFV	see	_y approach	[O V]		
	see a car approaching. (Haacke 1995: 357)					
с.	ich habe [[<mark>es</mark>	kommen]	sehen]	"Core" MVC		
	I _x have it _y	come:INF _y	see:INF	[O V]		
	I have seen it coming.					
d.	ich	[sehe [es	kommen]]	"Core" MVC		
	Ι	see:1SG.PRS it _y	come:INF _y	[V O]		
	I see <mark>it coming</mark> .		-			

+ non-causative S/A-switch SVC in North Khoekhoe not productive and regular but:

- a) restricted to five verbs: *mằũ* 'to see', *hồò* 'to find', *!khốó* 'to catch, hold', *!khốé* 'to (out)run', *!nầr*ì 'to move/drive'
- b) structurally distinct from predominant MVC type

+ more frequent MVC characterized by a suprasegmental change called "weak flip-flop" on the non-final V1 (cf. Haacke 1997, 2014)

- suprasegmental weak flip-flop in Khoekhoe largely occurs in contexts where Kalahari Khoe displays the segmental juncture suffix and can be reconstructed as its prosodic reflex after erosion (Rapold 2014)

- correspondence includes cognate constructions

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- suprasegmental weak flip-flop largely occurs in contexts where Kalahari Khoe displays the segmental juncture suffix and can be reconstructed as its prosodic reflex after phonetic erosion (Rapold 2014)
- correspondence includes cognate constructions, e.g., perfect/current relevance in (18)

2.3 Multi-verb constructions without a "juncture" in Khoekhoe

3. Summary

Perfect/Current relevance (V1 + *hãã 'exist')

(18)a. Khwe

khùrǐí-na-xu-a-hã(xu < *xuu 'leave')</th>end-JUNCT-COMPLETIVE-JUNCT-PERF[It (=the story)] is finished just here. (Rapold 2014: 169, after Kilian-Hatz 2008: 102)

b. North Khoekhoe

l[†]*t*-*b* ge hàrá-hà^{*} (lexical tone of V1: hárá)
3-3M.SG DECL swallow:WEAK.FLIP.FLOP-PERF
He has swallowed. (Rapold 2014: 170, after Haacke 1999: 195)

3. Conclusions

1 Contact interference regarding MVCs is potentially extensive

- constructional "metatypy" achieved by different processes, e.g., in North Khoekhoe:
- a) non-causative S/A-switch SVC as surface calque of alien Non-Khoe SVC
- b) adaptive segmental change of inherited syndetic MVC to asyndetic SVC-like MVC

SVC concept and definition are cross-linguistically problematic.

- "traditional" SVCs with considerably different morphosyntactic structures: e.g., Shluinsky (2017) on Kwa
- MVCs other than SVCs partly have a functional profile strongly overlapping with SVCs: e.g., Hyman (1971) on "consecutives", Bisang (1995) on converbs
- > initial SVC definition hard to maintain from a cross-linguistic perspective

Non-segmental properties of MVCs are important diagnostics.

- expression of deranked and/or dependent status of a verb in MVCs may not be obvious morpho-syntactically but still overt by:

- a) suprasegmental features, as in Khoekhoe > requires detailed prosodic MVC analysis!
- b) mere sequential ordering against the backdrop of a head-initial or head-final verb phrase

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- > SVC definition above in effect questionable from a cross-linguistic perspective

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