More than syntax? Subject sharing in Samoan

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Maximilian Wiesner

University of Potsdam

Subject sharing

Subject sharing:

- two clauses are conjoined
- only one subject in the surface structure
- subject is interpreted in both conjuncts
 - ⇒ suggests subject taking scope over both conjuncts
 - ⇒ subject must c-command both conjuncts
- → subject conjunction reduction, subject sharing

- (1) The man saw the woman and ran away.
 - = The man saw the woman and the man ran away.
 - \neq The man saw the woman and the woman ran away.

⇒ SVO&VO word order

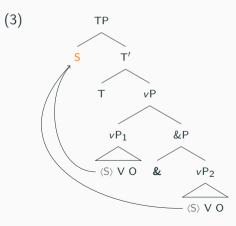
Subject sharing

Straightforward syntactic analyses for English:

V O

- VP-coordination → &P-external subject
 e.g. Keine (2013) for a similar approach for subject sharing
 in same subject switch reference contexts

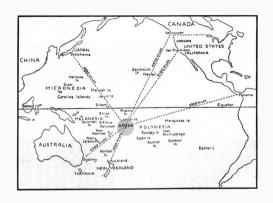
2. *v*P-coordination + ATB-movement _{e.g.} Flor & Zompi (2021)



Background on Samoan

Samoan:

- Austronesian language
- Ergative-Absolutive alignment
- leftwards head-orientation
- verb-initial (V1) language
- dominant word order in transitive clauses: VSO / V piv O



(4) Lena sa tā e le teine le la'au.

PST hit ERG ART girl ART tree.ABS

'The girl hit a tree.'

Background on Samoan

VP-fronting (Collins 2017, a.o.):

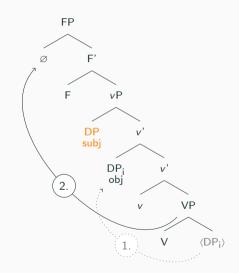
- 1. S in SpecvP
- 2. Object shift below subject
- 3. remnant VP-fronting

⇒ Derives VSO order

(5) Lena sa tā e le teine le la'au.

PST hit ERG ART girl ART tree.ABS

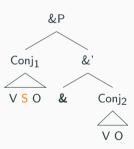
'The girl hit a tree.'



- (6) Lena sa [[ta e le teine le la'au] ma [si'ia luga le laulau]].

 PAST hit ERG ART girl ART tree and lift up ART table

 'The girl hit a tree and lifted a table.'
 - only one S for two predicates
 - S is embedded in first conjunct
 - ⇒ S cannot take scope over both conjuncts
 - ⇒ 'English' derivations do not work
 - word order: TAM [V S O] & [V O]



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Conj₁ &'
V S O & Conj₂

&P

Could it be *pro-*drop?

A straightforward solution: subject pro-drop

(7) Lena sa [[tā e le teine le la'au] ma [si'ia lugā pro le laulau]]. PAST hit ERG ART girl ART tree and lift up pro ART table 'The girl hit a tree and lifted a table.'

A straightforward solution: subject pro-drop

- (7) Lena sa [[tā e le teine le la'au] ma [si'ia lugā pro le laulau]].

 PAST hit ERG ART girl ART tree and lift up pro ART table
 'The girl hit a tree and lifted a table.'
- (8) a. Agagafi, lena sa fo'i mai Melanie i le fale. yesterday PAST come to Melanie LD ART home 'Yesterday, Melanie came home.'
 - b. Lena sa siva *(gaia).

 PAST dance 3.Sg
 'She danced.'
- ⇒ subject *pro*-drop is not possible (contra Homer 2009, Koopman 2012, Muāgututi'a 2017)

- dropping the subject in analogous examples is possible in Italian
- neither the subject nor a replacing pronoun is required in (9-b), given the context in (9-a)
- (9) a. Melanie è tornata a casa ieri.
 Melanie is came to home yesterday
 'Yesterday, Melanie came home.'
 - b. pro Ha ballato. has danced 'She danced.'

(Giuliano Armenante, p.c.)

A straightforward solution: subject pro-drop

- (10) Lena sa [[tā e le teine le la'au] ma [si'ia lugā pro le laulau]]. PAST hit ERG ART girl ART tree and lift up pro ART table 'The girl hit a tree and lifted a table.'
- (11) a. Agagafi, lena sa fo'i mai Melanie i le fale. yesterday PAST come to Melanie LD ART home 'Yesterday, Melanie came home.'
 - b. Lena sa siva *(gaia).

 PAST dance 3.Sg
 'She danced.'

How can these constructions be derived? What is the underlying structure?

Claims

This phemonenon has been described beforehand (cf. Chung 1978; Mosel 1985, 1987) but has not been further analysed. Based on the data I elicited with native speakers (via Zoom), I claim the following.

- 1. Samoan subject sharing constructions are coordinative.
- 2. Their structure involves coordination below the clausal level.
- 3. They cannot be derived staightforwardly by purely structural approaches.

- Subject is absent in second conjunct
- Samoan does not allow for pro-drop
- Subject takes wide scope over both conjuncts

What if Samoan subject sharing constructions were subordinative?

- Subject is absent in second conjunct
- Samoan does not allow for pro-drop
- Subject takes wide scope over both conjuncts

What if Samoan subject sharing constructions were subordinative?

⇒ Subject potentially c-commands/takes scope over the second conjunct

Asymmetric extraction is not possible:

(12) *O lea le mea sa [ta e Peter __] ma [ai se apu]?
PRES what ART thing PAST hit ERG Peter and eat ART apple
What did Peter hit and ate an apple?

⇒ suggests coordinative structure

Asymmetric extraction is not possible:

- (12) *O lea le mea sa [ta e Peter __] ma [ai se apu]?
 PRES what ART thing PAST hit ERG Peter and eat ART apple
 What did Peter hit and ate an apple?
- ⇒ suggests coordinative structure

Object ATB movement is possible:

- (13) O lea le mea sa [maua e Peter __] ma [gaoi __]?
 PRES what ART thing PAST find ERG Peter and steal
 What did Peter find and steal?
- ⇒ suggests coordinative structure

- Subject is absent in second conjunct
- Samoan does not allow for pro-drop
- Subject apparently takes wide scope
- Samoan subject sharing constructions are coordinative

Do subject sharing constructions have the same structure as clausal coordination?

Coordination structure

Clausal coordination

- (14) [Na maua e Petelo se ta'avale] ma [na gaoi e Malia le uila].

 PAST find ERG Peter ART car and PAST steal ERG Mary ART bike 'Peter found a car and Mary stole a bike.'
 - Conjunction of two transitive clauses
 - VSO&VSO word order → 2 subjects
 - 2 TAM markers
 - ⇒ one MoodP/AspectP/TP in each conjunct (with potetially differing values)
 - ⇒ both conjuncts must be at least the size of MoodP/AspectP/TP

Coordination structure

Can subject sharing constructions have 2 TAM markers as well?

- (15) Lena sa [fasi e le faiaoga le tama] ma [siva].

 PAST beat ERG ART teacher ART boy and dance
 The teacher hit the boy and danced.
- (16) [Sa tā e le faia'ogai le tama] ma [sa siva *(gaiai)].

 PAST hit ERG ART teacher ART boy and PAST dance 3.Sg

 The teacher hit the boy and danced.
- ⇒ only one MoodP/AspectP/TP is present in subject sharing constructions
- ⇒ conjuncts must be smaller than MoodP/AspectP/TP
- ⇒ coordination must apply below MoodP/AspectP/TP

Coordination structure

- Subject is absent in second conjunct
- Samoan does not allow for *pro-*drop
- Subject apparently takes wide scope
- Samoan subject sharing constructions are coordinative
- Coordination must apply lower than MoodP/AspectP/TP
- Conjuncts must be smaller than MoodP/AspectP/TP

What is the minimum size of the conjuncts?

Conjunct size

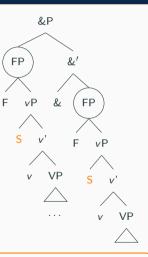
- Adverb vave 'quickly' adjoins to the right of VP → O+Adv (Collins 2017)
- If the surface structure in the second conjunct is $Adv+O \rightarrow predicate$ fronting
- (17) *Lena sa [fasi vave e le fafine le tama] ma [lafo se tusi vave].

 PAST beat quickly ERG ART woman ART boy and send ART letter quickly 'The woman quickly hit the boy and quickly sent a letter.'
- (18) Lena sa [fasi vave e le fafine le tama] ma [lafo vave se tusi].

 PAST beat quickly ERG ART woman ART boy and send quickly ART letter 'The woman quickly hit the boy and quickly sent a letter.'
- ⇒ the adverb must precede the object
- ⇒ predicate fronts in the first and second conjunct
- \Rightarrow conjuncts must contain a landing site for VP-movement \rightarrow FP conjuncts

Conjunct size

- Subject is absent in second conjunct
- Samoan does not allow for pro-drop
- Subject apparently takes wide scope
- Samoan subject sharing constructions are coordinative
- Coordination must apply lower than MoodP/AspectP/TP
- Conjuncts must be smaller than MoodP/AspectP/TP
- Conjuncts must be at least the size of FP



If there is FP-coordination, do we find evidence for two subjects in the structure?

One or two subjects?

- (19) a. Lena sa fasi e le faiaoga le tama.

 PST beat ERG ART teacher ART boy

 'The teacher hit the boy.'
 - Lena sa siva (*e) le faiaoga.
 PST dance ERG ART teacher
 'The teacher danced.'
 - c. Lena sa [fasi e le faiaoga le tama] ma [siva].
 PST beat ERG ART teacher ART boy and dance 'The teacher hit the boy and danced.'
- (20) a. Lena sa taalo (*e) le fafine.

 PST play ERG ART woman
 - 'The woman played.' b. Lena sa lafo e le fafine se tusi.
 - PST send ERG ART woman ART letter 'The woman sent a letter.'
 - Lena sa [taalo (*e) le fafine] ma [lafo se tusi]. PST play ERG ART woman and send ART letter. 'The woman played and sent a letter.'

 \Rightarrow V_{tr} S DO & V_{unacc}

One or two subjects?

(24-c) Lena sa [fasi e le faiaoga le tama] **ma** [siva].

PST beat ERG ART teacher ART boy and dance 'The teacher hit the boy and danced.'

 \Rightarrow V_{tr} S DO & V_{unacc}

(25-c) Lena sa [taalo (*e) le fafine] **ma** [lafo se tusi].

PST play ERG ART woman and send ART letter.

'The woman played and sent a letter.'

- \Rightarrow V_{unacc} S & V_{tr} DO
- Subjects of transitive verbs and subjects of intransitive verbs are base-generated in different positions above VP (Tollan 2018)
- ⇒ Coordinating a transitive and an intransitive verb with only one subject position is impossible
- ⇒ The grammaticality of (24-c) and (25-c) despite the case mismatch suggests two subject positions

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Interim Summary

- Subject sharing constructions display coordinative properties.
- However, they differ from clausal coordination.
- They include only one MoodP/AspectP/TP.
- The conjuncts must be smaller than MoodP/AspectP/TP but be at least the size of FP
- Coordination of trans+intrans verbs is grammatical
- Case mismatch in coordination is grammatical
 - → There are (presumably) two subject positions in the structure.
- However, based on the data we cannot simply assume pro-drop (or deletion under identity).

Interim Summary

There are two options:

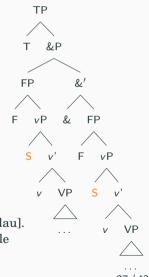
- Believe in the evidence for two subject positions and come up with a particular (post-syntactic) deletion mechanism or empty/null element to explain the Subject-Absence-Issue.
- 2. 'Ignore' the evidence and try to find a structure which can derive the remaining facts without (post-syntactic) deletion or empty/null element.

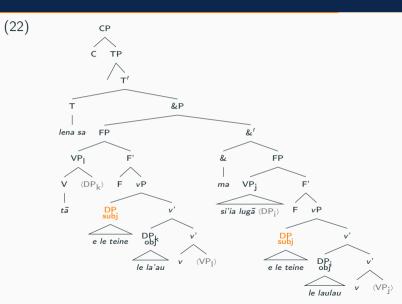
- coordination dominated by TP
- conjuncts are FPs (functional phrase) for predicate fronting
- each conjunct includes a subject

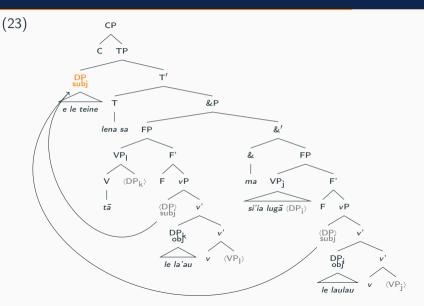
(21) Lena sa [tā e le teine le la'au] ma [si'ia lugā le laulau].

PAST hit ERG ART girl ART tree and lift up ART table

The girl hit a tree and lifted a table.







Pro:

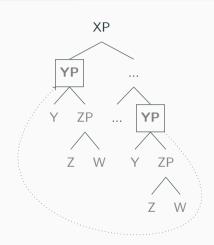
- solves Subject-Absence-Issue via ATB movement
- TAM-marker takes scope over both conjuncts

Contra:

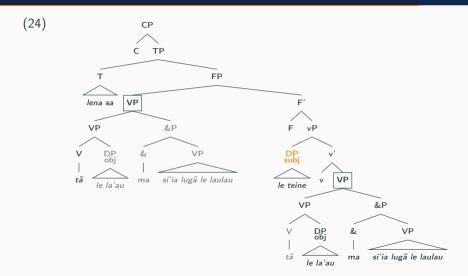
• derives incorrect word order \rightarrow S TAM [V O] & [V O]

VP-coordination & distributed deletion

- movement = copy and delete
- two copies of an element can exist simultaneously
- subsequent deletion may apply to both copies, but only partially (Fanselow & Ćavar 2002)



VP-coordination & distributed deletion



VP-coordination & distributed deletion

Pro:

- solves Subject-Absence-Issue via VP-coordination
- no CSC violation because the entire coordination phrase is moved
- TAM-marker c-commands both conjuncts
- · derives correct word order

Contra:

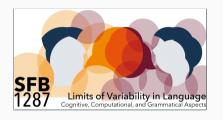
- difficult to motivate this approach in Samoan by using pragmatically conditioned features like *focus* and *topic* (as in Fanselow & Ćavar 2002; different features in van Urk 2022)
 - \rightarrow unlikely that Samoan subject sharing constructions involve pragmatic information which is fundamentally different from that of other coordination constructions
- Evidence for two subject positions and FP-sized conjuncts cannot be accounted for

Conclusion

- Samoan subject sharing constructions involve coordinative structure.
- As the observations show, they differ from clausal coordination.
- The absence of the subject in the second conjunct cannot be (flawlessly) derived by a structural 'non-deletion' approach.
 - → It appears to be more likely that a deletion-based/-related mechanism is at work here.
- Although FP-coordination cannot explain all the peculiarities, the evidence points towards this structure.
- A potential mechanism for a 'deletion/null' approach might be argument ellipsis.
- Future research: Investigations about the exact context and restrictions for deletion and co-reference in Samoan (previous work by i.e. Chung 1978; Mosel 1985, 1987)

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SSC in intransitive coordination

- (25) a. Lena sa taalo (*e) le fafine.

 PST play ERG ART woman
 'The woman played.'
 - Lena sa lafo e le fafine se tusi.
 PST send ERG ART woman ART letter
 'The woman sent a letter.'
 - c. Lena sa taalo (*e) le fafine ma lafo se tusi.

 PST play ERG ART woman and send ART letter.

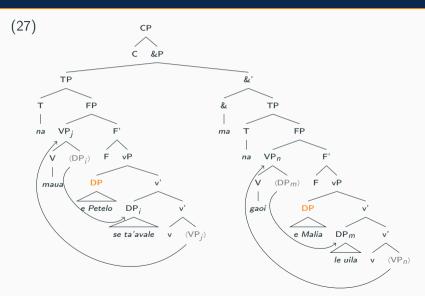
 'The woman played and sent a letter.'
 - \Rightarrow V_{intr} S & V_{tr} DO
 - · subject follows the verb in the first conjunct
 - subject must be marked for Absolutive case
 - both conjuncts are verb-initial

Clausal coordination

(26) [Na maua e Petelo se ta'avale] ma [na gaoi e Malia le uila]. PAST find ERG Peter ART car and PAST steal ERG Mary ART bike 'Peter found a car and Mary stole a bike.'

- Conjunction of two transitive clauses
- VSO&VSO word order

Clausal coordination



Clausal coordination

Can derive the following:

- the two conjuncts are at least the size of TP
- there are two TAM-markers in the structure
- there is an obligatory subject in the second conjunct
- predicate fronting takes place in both conjuncts
- only one CP is needed
 - (28) O ai na maua se ta'avale ma na gaoi le uila?

 PRES who PAST find ART car and PAST steal ART bike

 'Who found a car and stole a bike?'

Object sharing

In coordination constructions with a transitive verb in both conjuncts, the object in the second conjunct is not optional. The object has to occur in **both** conjuncts.

- (29) Lena sa [tā le teine *(le laulau)] ma [si'ia le faiaoga le laulau]. PST hit ART girl ART table and lift ART teacher ART table 'The girl hit the table and the teacher lifted the table.' $\Rightarrow V_{tr} S *(DO_i) \& V_{tr} S DO_i$
- (30) [Lena sa faatau e Malia **se tusi**] ma [lena sa leiloa e John *(**se** PST buy ERG Malia ART book and PST loose ERG John ART **tusi**)].

book

'Malia bought a book and John lost a book.'

$$\Rightarrow$$
 V_{tr} S DO_i & V_{tr} S *(DO_i)