# Φ-feature mismatches in Samoan resumptives as postsyntactic impoverishment

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# Ā-features are φ-features

Standard assumption: Ā-movement is driven by Ā-features.

 $\bar{\mathsf{A}}\text{-}\mathsf{features}$  can participate in agreement  $\to$  WH-agreement.

(Watanabe 1996; Chung 1998, a.o.)

In some languages, wh-agreement behaves like  $\phi$ -agreement.

e.g. Abaza, West Circassian

(O'Herin 2002; Baier 2018; Ershova 2021)

Prediction: If  $\bar{A}$ -features are a type of  $\phi$ -feature, they may affect pronominal forms, not just agreement. (cf. Baier and Yuan 2018)

Confirmed by resumptive pronouns in Samoan.

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# Resumptive pronouns affected by Ā-features

- ▶ Ā-movement from **genitive**, **oblique**, and **ergative** case marked positions triggers **obligatory resumption**.
- $\blacktriangleright$  The resumptive pronoun is **3SG** regardless of the φ-features of the moved element.

#### Contrast with:

- Ā-movement from absolutive case marked positions triggers optional resumption.
- The resumptive pronoun copies the full φ-features of the moved element.

#### Φ-feature mismatch is postsyntactic impoverishment

Φ-features on pronouns are **deleted** if combined with an **Ā-feature** and a **marked case** feature.

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## Roadmap

- ightharpoonup  $\bar{A}$ -features as  $\phi$ -features
- ► Background on Samoan
- Matching and mismatched resumptives in Samoan
- ► The analysis: Ā-features affect pronominal forms
- Conclusion

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#### WH-agreement

Morphosyntactic reflex of Ā-movement, e.g. in Chamorro

(Chung 1994, 1998; Reintges et al. 2006)

Ha-bendi si Maria i kareta.

AGR-sell Maria the car

'Maria sold the car'

**DECLARATIVE** 

Hayi bumendi i kareta? who WH.NOM.sell the car

'Who sold the car?'

WH-AGREEMENT WITH SUBJECT

Hafa bininde-nña si Maria? what **WH.OBJ**.sell-AGR Maria

'What did Maria sell?'

WH-AGREEMENT WITH OBJECT

#### WH-agreement interacts with $\phi$ -agreement

In some languages, WH-agreement replaces or blocks  $\phi\text{-agreement}.$ 

(O'Herin 2002; Baier 2018; Ershova 2021)

E.g. in Abaza and West Circassian (Northwest Caucasian).

# WH-agreement in West Circassian

#### FINITE CLAUSE:

```
mə sabəjə-m qeваве-хе-г [ jə-šəрх<sup>w</sup>ə-me ]
this child-ERG flower-PL-ABS 3PL.POSS-sister-PL.OBL

Ø- а- r- jə- tə-ве-х

3ABS- 3PL.IO- DAT- 3SG.ERG- give-PST-PL
```

ABS- IO- APPL- ERG-

#### **RELATIVE CLAUSE:**

```
WH-AGREEMENT

| WH-MOVEMENT | OP txəλə-r | OP txəλə-r | OP txəλə-r | OP txəλə-r | OP tə-Be |
| book-ABS | OP type |
```

'the person to whom s/he gave the book' (Lander 2012:276)

<sup>&#</sup>x27;This child gave flowers to his sisters.'

# Ā-feature triggers impoverishment

#### Following Baier (2018):

- ightharpoonup agreement probe copies features from wh-operator: [ $\phi$ ; WH]
- ▶ WH-feature triggers postsyntactic feature impoverishment

 $\begin{array}{c} \text{(Bonet 1991; Noyer 1997 \it{et seq.})} \\ \\ [\phi; \mathrm{WH}] \rightarrow [\mathrm{WH}] \\ \Rightarrow \text{spelled out as wh-agreement} \end{array}$ 

#### **Prediction:**

If  $\bar{A}$ -features can influence spellout of  $\phi$ -features on probes, they can influence the spellout of other  $\phi$ -feature bearing elements, e.g. **pronouns**.

Confirmed by Samoan resumptive pronouns.

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#### Samoan

- ► Polynesian < Austronesian
- ightharpoonup ~500000 speakers; ~50% of them in the Samoan Islands
- ▶ Data from elicitations with one speaker from Apia, Samoa.



# Verb initiality

VERBSUBJOBJEtausieletināoNatia ia.PRScareERGthe mother GENNatia s/he

'Natia's mother takes care of her.'

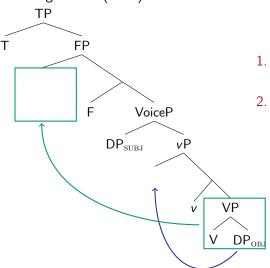
VERB OBJ SUBJ

E tausi ia e le tin $\bar{a}$  o Natia. PRS care s/he ERG the mother GEN Natia

'Natia's mother takes care of her.'

# Verb initiality by VP fronting

#### Following Collins (2017):



- 1. internal arguments move out of VP
- 2. VP moves to position immediately below TP

## Case marking of verbal arguments

```
ERG
                             ABS
Na tanu [e le maile] [le pogaīvi] i le oneone.
PST bury ERG the dog the bone OBL the sand
'The dog buried the bone in the sand.' transitive: ERG-ABS
         ABS OBL / ACC
Na va'ai [ia ] [i le tama ].
PST see s/he OBL the boy
"S/he saw the boy."
                                       middle: ABS-OBL
               ABS
   moe [l-a]u maile li \bar{l}.
PRS sleep the-my dog OBL here
'My dog sleeps in here.'
                                      intransitive: ABS
```

#### Unmarked preverbal clitics

Pronominal subjects may surface as preverbal clitics which are **absolutive** regardless of verb transitivity:

'I saw a person.'

Sa **ou** fafāgā l-a'u maile.

PST I feed+3sg the-my dog

'I fed my dog.'

middle: ABS-OBL

transitive: ERG-ABS

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#### Case marking of possessors

```
le tinā [ o le teine ]
the mother GEN the girl

'the girl's mother'

le faiaoga [ a le teine ]
the teacher GEN the girl

'the girl's teacher'
```

```
l-o-na tinā
the-GEN-3SG mother

'his/her mother' INALIENABLE

l-a-na faiaoga
the-GEN-3SG teacher

'his/her teacher' ALIENABLE
```

#### Case marking: summary

ABS: unmarked / high edge tone (Yu 2021)

subject of intransitive & middle verbs

object of transitive verbs

preverbal pronominal subjects

ERG: e NP

subject of transitive verb

OBL: i NP

object of middle verb

indirect object

GEN: o/a NP

possessor

## Case marking: summary

ABS: unmarked / high edge tone (Yu 2021)
subject of intransitive & middle verbs
object of transitive verbs
preverbal pronominal subjects

ERG: e NP

i NP

subject of transitive verb

object of middle verb indirect object

GEN: o/a NP

possessor

+ A-feature

impoverishment

OBL:

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# Ā-movement: o-fronting

- Fronting with particle o to encode focus, topicalization and wh-questions.

  (Mosel and Hovdhaugen 1992:474-476)
- ► O introduces alternatives glossed as ALT. (Hohaus and Howell 2015)

```
O matou] sa nonofo __ABS i le taulaga lea.

ALT we PST live OBL the town this
```

<sup>&#</sup>x27;It was us who lived in this town.'

#### Mismatched resumptives

GEN, OBL and ERG DPs are obligatorily resumed by a 3SG pronoun.

```
E moe l-a'u maile i \bar{1}.
PRS sleep the-1SG dog OBL here
```

'My dog sleeps here.'

```
[O a'u] e moe l-ana maile i ī.
PRED I PRS sleep the-3sG dog OBL here
```

<sup>&#</sup>x27;It is me whose dog sleeps here.'

#### Mismatched resumptives

GEN, OBL and ERG DPs are obligatorily resumed by a 3SG pronoun.

```
Na talanoa mai le tama [ iā i matou ].
PST talk DIR the boy OBL we
```

'The boy talked to us.'

```
O matou] na talanoa mai le tama i ai.

ALT we PST talk DIR the boy OBL it
```

<sup>&#</sup>x27;It was us the boy talked to.'

#### ERG resumed by a suffix

```
ERG is resumed by the suffix -a/-ina (\approx 3 {\rm SG} pronoun na) regardless of \phi-features. (Hopperdietzel 2020; Hopperdietzel and Alexiadou 2022)
```

```
Na ave [e a'u] le tusi i l-o-'u uso.
PST give ERG I the book OBL the-GEN-1sg sister
```

'I gave the book to my sister.'

```
[O a'u] na ave-a le tusi i l-o-'u uso.

ALT I PST give-3SG the book OBL the-GEN-1SG sister
```

<sup>&#</sup>x27;It was me who gave the book to my sister.'

#### Ergative resumption

Ergative resumption is also triggered by A-movement:

- ▶ Preverbal clitic pronouns move to Spec, TP. (Collins 2017)
- ▶ Preverbal clitic is not marked for ergative case.

```
Na ou ave-a le tusi i l-o-'u uso.
PST I give-3SG the book OBL the-GEN-1SG sister
```

\*Ask me how the analysis would change if -a/-ina is <u>not</u> a resumptive.

<sup>&#</sup>x27;I gave the book to my sister.'

## Mismatched resumptives are movement-derived

#### Resumptive pronouns spell out an Ā-trace:

- ► They are island-sensitive.
- ► They can license parasitic gaps.

#### Resumptive pronouns are island sensitive

φ-deficient resumptives cannot appear in islands:

```
* [O a'u] na sau le teine
PRED I PST come the girl

[ina ua e vala'au atu i ai].
COMP PERF you call DIR OBL it(OBL)
```

lit. 'It was me who the girl came when you called \_\_\_.'

#### Resumptive pronouns are island sensitive

φ-deficient resumptives cannot appear in islands:

```
* [O Talia] ou te lē iloa le tusi
PRED Talia I PRS NEG know the book
[le lā e faitau-a].
that PRS read-3SG
```

Intended: 'It is Talia, I don't know the book that \_\_ is reading.'

#### Resumptive pronouns license parasitic gaps

Parasitic gaps surface as φ-mismatched resumptive pronouns:

```
E tausi le fafine lea iā te a'u [ ona e alofa iā te a'u ]. PRS care the woman this OBL I COMP PRS love OBL I
```

'This woman takes care of me because she loves me.'

```
[O a'u] e tausi le fafine lea i ai
PRED I PRS care the woman this OBL it(OBL)

[ ona e alofa iā te a'u].
COMP PRS love OBL I
```

'It's me this woman takes care of because she loves me.'

#### Resumptive pronouns license parasitic gaps

Parasitic gaps surface as φ-mismatched resumptive pronouns:

```
E tausi le fafine lea i\bar{a} te a'u [ ona e alofa i\bar{a} te a'u ]. PRS care the woman this OBL I COMP PRS love OBL I
```

'This woman takes care of me because she loves me.'

```
[O a'u] e tausi le fafine lea i ai
PRED I PRS care the woman this OBL it(OBL)
```

```
[ ona e alofa i ai OBL it(OBL) ].
```

'It's me this woman takes care of because she loves me.'

## Summary: mismatched resumptives

- ▶ Ā-movement from GEN, OBL, and ERG case marked positions triggers obligatory resumption.
- The resumptive pronoun surfaces as 3sG regardless of the φ-features of the moved DP.
- Mismatched resumptive pronouns are movement-derived ⇒ spell out an Ā-trace.

#### Deriving mismatched resumptive pronouns

- Pronouns surface as 3sg:

```
Ā-feature + marked case (GEN,OBL,ERG)
```

 $\Rightarrow \phi$ -feature deletion

#### Φ-feature matching resumptives

Absolutive DPs may be **optionally resumed** by a  $\phi$ -agreeing pronoun.

#### Preverbal subjects:

```
[O matou] sa (matou) nonofo i le taulaga lea.

PRED we PST we live.PL OBL the town this
```

#### **Absolutive objects:**

```
[ O a'u ] e fafaga e l-o-na tinā (a'u).

ALT I PRS feed ERG the-GEN-3SG mother I
```

<sup>&#</sup>x27;It was us who lived in this town.

<sup>&#</sup>x27;It is me whom his/her mother feeds.'

#### Φ-matching resumptives are movement-derived

Φ-matching resumptives may license parasitic gaps:

```
[O oe] e mana'o Talia (e) te ave-a
ALT you PRS want Talia you PRS take-3SG

l-a-na tupe [ona na te fa'atuatua i ai. the-GEN-3SG money COMP 3SG PRS trust OBL 3SG
```

'It's you Talia wants to take her money because she trusts in you.'

- ! Preverbal clitic derived by raising from ERG position  $\rightarrow \phi\text{-mismatched resumptive -}\textit{ina}.$
- ! Raising to preverbal subject is A-movement and <u>does not</u> license parasitic gaps.
  - $\Rightarrow$  PG is licensed by o-fronting from preverbal subject position.

# Summary: φ-mismatched vs. matching resumptives

#### φ-mismatched resumptives

- movement-derived
- ► always 3sg
- obligatory
- ▶ in marked case positions (GEN, OBL, ERG)

#### φ-matching resumptives

- movement-derived
- full φ-features
- optional
- in unmarked case positions (ABS)

## Why the mismatch in $\varphi$ -features?

- ightharpoonup φ-matching resumptives are also movement-derived  $\Rightarrow$  φ-mismatch not due to  $\bar{A}$ -feature.
- Full  $\phi$ -features are possible in GEN, OBL, and ERG positions  $\Rightarrow \phi$ -mismatch not due to marked case.

 $\phi$ -features are deleted in presence of <u>both</u>  $\bar{A}$ -feature and marked case feature.

#### Roadmap

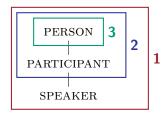
- ightharpoonup  $\bar{A}$ -features as  $\phi$ -features
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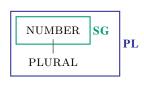
#### Recipe for $\phi$ -mismatched resumptives

- 1. Movement-derived resumptives spell out the lower copy of a movement chain. (Koopman 1984; Engdahl 1985, et seq.)
- 2. Resumptives are featurally identical to the higher copy = they have full  $\varphi$ -features.
  - $\Rightarrow$  ABS resumptives surface with full  $\varphi$ -features.
- 3. Ā-feature + marked case feature (ERG, OBL, or GEN)  $\rightarrow$  deletion of  $\phi$ -features
  - $\Rightarrow$  ERG, OBL, and GEN resumptives surface as 3SG.

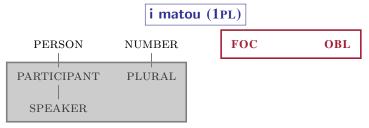
#### Third person singular is default

φ-features organized hierarchically: (Harley and Ritter 2002; Bejar 2003, a.o.)



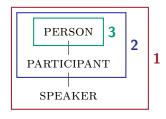


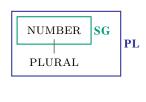
► FOC + ERG/OBL/GEN triggers impoverishment:



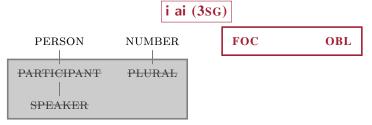
#### Third person singular is default

φ-features organized hierarchically: (Harley and Ritter 2002; Bejar 2003, a.o.)





► FOC + ERG/OBL/GEN triggers impoverishment:



# Summary: Ā-features in resumptive pronouns

Two types of movement-derived resumptive pronouns:

- 1. φ-agreeing in unmarked (ABS) case positions
- 2.  $\phi$ -mismatched (3SG) in marked case positions (ERG/OBL/GEN)

φ-mismatched resumptives result from **feature impoverishment**:

 $\bar{A}\text{-feature} + \text{marked case} \rightarrow \phi\text{-feature deletion}$ 

#### Both ingredients necessary:

- $\begin{tabular}{l} \hline $\bar{A}$-feature without marked case $\rightarrow$ no impoverishment \\ & ({\rm ABS}\ resumptive}) \end{tabular}$
- $\begin{tabular}{ll} \hline & marked case without $\bar{A}$-feature $\to$ no impoverishment \\ & (regular $\rm ERG/GEN/OBL\ pronouns) \\ \hline \end{tabular}$

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# $\bar{A}$ -features interacting with $\phi$ -features

In Samoan resumptive pronouns,  $\varphi$ -features are deleted when combined with an  $\bar{A}$ -feature and marked case.

Effect of each type of feature is individually attested:

► WH-feature triggers φ-feature neutralization.

(Abaza; West Circassian)

Morphological case triggers φ-feature neutralization.

(Arkadiev 2009)

A novel type of 'partial copying':

markedness-based feature deletion.

Cf. partial copy deletion based on economy (Van Urk 2018).

Conclusion bit.ly/ErshovaCLS2023

#### Features in syntax $\leftrightarrow$ features in morphology

#### Samoan resumptives confirm:

 $\bar{A}$ -features may interact with  $\phi$ -features, not just on agreement probes, but on  $\phi$ -feature bearing elements like pronouns.

#### This is a desirable prediction:

movement is feature driven

features affect morphology

movement features affect morphology

## Thank you!

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