

# The nuanced typology of syntactic ergativity

Insights from parasitic gaps in Samoan and West Circassian

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Defined broadly (Polinsky 2017:3):

“The presence of **syntactic rules** that group S and O (the absolutive) together, to the exclusion of A (the ergative).”

S = subject of intransitive verb

O = object of transitive verb

A = subject of transitive verb

} **ABS**

} **ERG**

# The Ergative Extraction Constraint

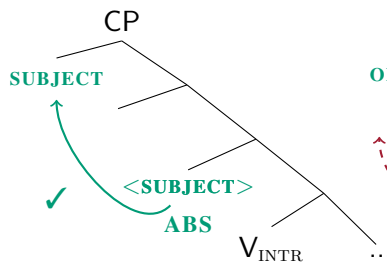
## Trademark syntactic ergativity effect:

ban on the displacement of the ergative agent

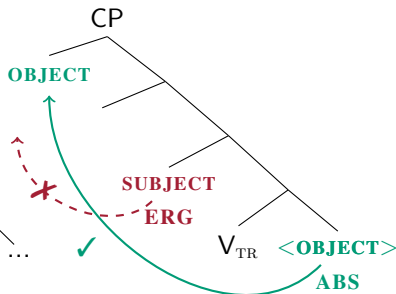
\* displacement = relativization, question formation, topicalization, clefting,  
focus fronting, etc.

=  $\bar{A}$ -movement

## Intransitive clause:



## Transitive clause:



Dixon (1994); Manning (1996); Aldridge (2004, 2008a); Coon et al. (2014, 2021); Deal (2016); Polinsky (2016, 2017); Tollan and Clemens (2022), a.o.

## Example: ERG cannot move in Q'anjob'al (Mayan)

\* Maktxel max y-il    —ERG ix    ix?  
who        PFV A3-see        CLF woman

Intended: 'Who saw the woman?'        \***ERG WH-DISPLACEMENT**

Maktxel max y-il    naq winaq —ABS ?  
who        PFV A3-see CLF man

'Who did the man see?'        ✓**ABS(O) WH-DISPLACEMENT**

Maktxel max way-i    —ABS ?  
who        PFV sleep-ITV

'Who slept?'        ✓**ABS(S) WH-DISPLACEMENT**

(Coon et al. 2014, 2021; Tollan and Clemens 2022)

# The syntactic endeavor

**Our goal:** determining the fundamental building blocks at the core of all languages

Can we reduce typological diversity to the interactions between a finite set of predictable micro- and macroparameters?

(cf. Baker 2003, 2010)

## The challenge of syntactic ergativity:

A large-scale typological difference\* in a small set of languages, which does not have obvious analogs in non-ergative languages.

\* cf. Keenan and Comrie's (1977) **Accessibility Hierarchy**: subjects (A and S) are the most accessible for relativization

Explored through the prism of **parasitic gaps**.

# The significance of parasitic gaps

*Which articles did John file  [ without reading  PG ]?*

Parasitic gaps are striking evidence for Universal Grammar.

(Chomsky 1982)

- ▶ long-distance dependency between empty categories
- ▶ with an intricate set of properties
- ▶ that are too marginal to be learned

**And yet:** their properties are stable in vastly different, unrelated languages and can be reliably used to diagnose structure!

**This talk:** Parasitic gaps in Samoan and West Circassian help explain the Ergative Extraction Constraint.

# The empirical foundation

**West Circassian:** generalizations based on 12 years of fieldwork and language study inform the questions posed for **Samoa**.



August 2010, Khatazhukaj, Adygea © Peter Arkadiev

- ▶ **high absolutive blocks ergative movement**

(Aldridge 2004, 2008a; Coon et al. 2014, 2021; Tollan and Clemens 2022, a.o.)

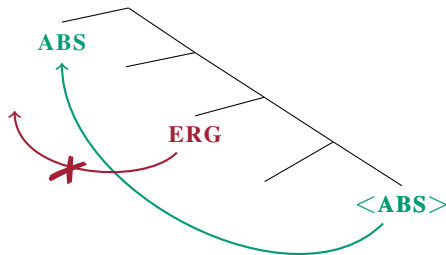
- ▶ structural or morphological properties of the ergative DP  
block ergative movement

(Otsuka 2006, 2017; Legate 2012; Deal 2016; Polinsky 2016)



# High absolute blocks ergative extraction

- ▶ ABS object is selected by the verb below ERG subject.
- ▶ In surface syntax, ABS occupies high position above ERG.
- ▶ high ABS intervenes for ERG movement.



(Aldridge 2004, 2008b; Coon et al. 2014, 2021; Tollan and Clemens 2022)

- ▶ high absolutive blocks ergative movement

Aldridge (2004, 2008a); Coon et al. (2014, 2021); Tollan and Clemens (2022), a.o.

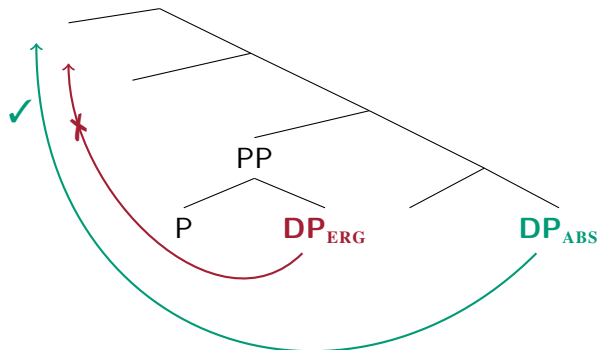
- ▶ **structural or morphological properties of the ergative DP block ergative movement**

(Otsuka 2006, 2017; Legate 2012; Deal 2016; Polinsky 2016)

# Properties of ERG block ergative extraction

Polinsky (2016):

- ▶ Position of ABS is irrelevant.
- ▶ ERG displacement blocked by additional structure.



(See also Otsuka 2006, 2017; Legate 2012; Deal 2016).

# Typology of syntactic ergativity: the status quo

Two types of ergative languages:

1. **LOW ABSOLUTE**

subset of low ABS languages display ERG extraction constraint  
→ associated with properties of ERG

2. **HIGH ABSOLUTE**

universally display ERG extraction constraint

# A nuanced typology of syntactic ergativity

**Samoa**n and **West Circassian** challenge the status quo:

1. Samoan is low ABS, with a **pocket of high ABS syntax**

ERG extraction in 'low ABS' language is blocked by **ABS** raising.

2. West Circassian is high ABS, but **no ERG extraction constraint**

High ABS does not universally block ERG movement.

**Evidence from parasitic gaps.**

# The proposal

## Ingredients of the Ergative Extraction Constraint:

### Position of ERG:

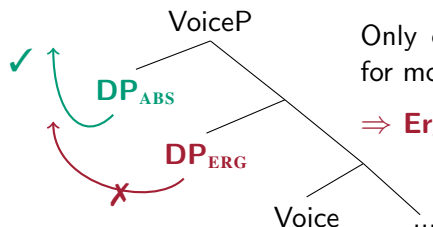
ERG merges at phase edge\*  
= Spec, VoiceP

+

### High ABS:

ABS raises to outer  
Spec, VoiceP

\* **Phase** = locality domain for movement and agreement  
(boundary for displacement dependencies)



Only outer phase edge is accessible  
for movement.

⇒ **Ergative Extraction Constraint**

(cf. Aldridge 2004, 2008b; Coon et al. 2021)

The Ergative Extraction Constraint is reduced to standard, independently established notions of locality and syntactic domains.

- ▶ VoiceP is a phase

≈ Chomsky's (1995) transitive *v*P

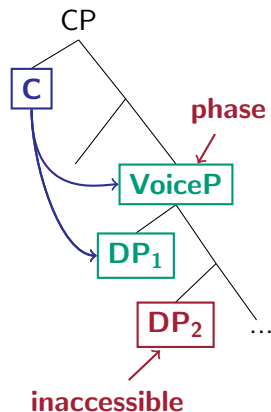
(e.g. Harley 2014; Legate 2014)

- ▶ Only outer phase edge is accessible for movement

(Rackowski and Richards 2005; Bošković 2016; Holmberg et al. 2019)

⇐ locality for Agree and Move (Rackowski and Richards 2005; Ershova to appear a)

# ERG is trapped because of locality



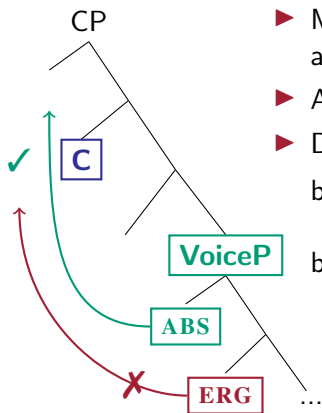
- ▶ Movement is triggered by Agree between a **probe** and the closest **goal**
- ▶ All **phases** are potential **goals**
- ▶ DP<sub>1</sub> and VoiceP are both **closest goals** because there is no XP which c-commands DP<sub>1</sub>, but does not c-command VoiceP

phase and outer phase edge are equidistant to probe

(Rackowski and Richards 2005; Pesetsky and Torrego 2000; Van Urk and Richards 2015; Halpert 2019; Ershova to appear a)



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phase and outer phase edge are equidistant to probe

ERG cannot move if ABS is in outer Spec, VoiceP.

(Rackowski and Richards 2005; Pesetsky and Torrego 2000; Van Urk and Richards 2015; Halpert 2019; Ershova to appear a)

1. ERG can move if ABS skips outer Spec, VoiceP
2. ERG can move if ABS stays low
3. only ERG movement is blocked by high ABS

Confirmed by Samoan and West Circassian.

**Evidence from parasitic gaps.**

- ◇ Parasitic gaps, high ABS and ergative extraction
- ◇ **West Circassian:** high ABS, but ERG can move
  - ▶ Background
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**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up:** a nuanced typology of syntactic ergativity

# Parasitic gaps as a structural diagnostic

Parasitic gaps in English:

*Who did [ a picture of  <sub>PG</sub> ] surprise  ?*

Licensed by a **real gap**

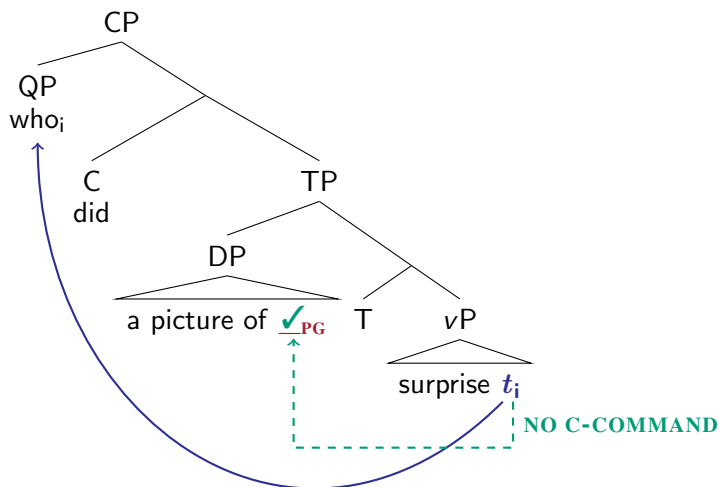
which does not c-command the **parasitic gap**.

↖ **ANTI-C-COMMAND CONDITION**

(Engdahl 1983 et seq.)

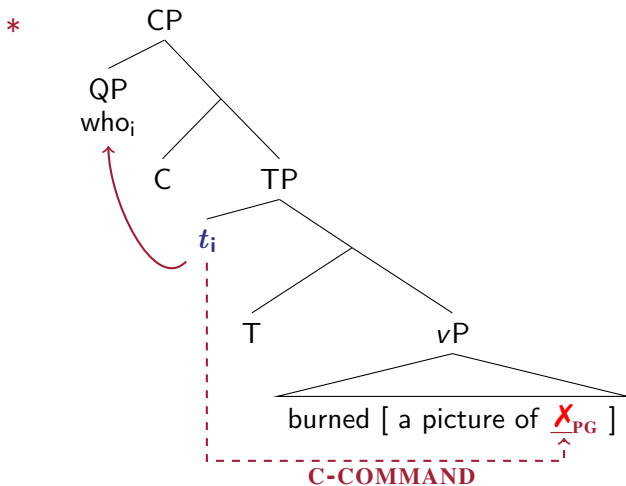
# The anti-c-command condition in English

**object** doesn't c-command **subject**  $\Rightarrow$  can license parasitic gap



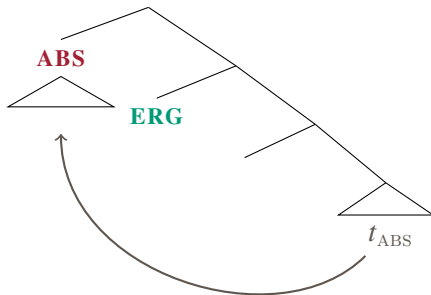
# The anti-c-command condition in English

**subject** c-commands **object**  $\Rightarrow$  cannot license parasitic gap



# Parasitic gaps as a diagnostic for ERG movement

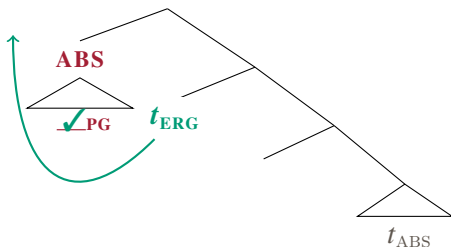
- ▶ In high ABS languages, ABS raises to c-command ERG.



# Parasitic gaps as a diagnostic for ERG movement

- ▶ In high ABS languages, ABS raises to c-command ERG.
- ▶ If ERG can move, it can license PG in high ABS.

West Circassian



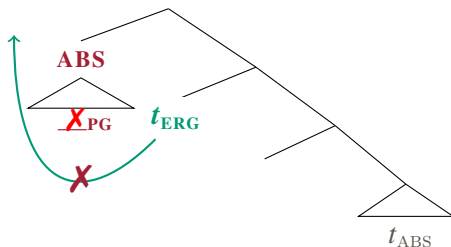


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West Circassian

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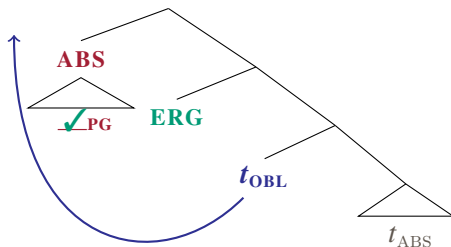
# Parasitic gaps as a diagnostic for ERG movement

- ▶ In high ABS languages, ABS raises to c-command ERG.
- ▶ If ERG can move, it can license PG in high ABS.

**West Circassian**

- ▶ If ERG cannot move, it cannot license PG in high ABS.
- ▶ Non-ERG arguments can move and license PG in high ABS.

**Samoan**



- ◇ Parasitic gaps, high ABS and ergative extraction
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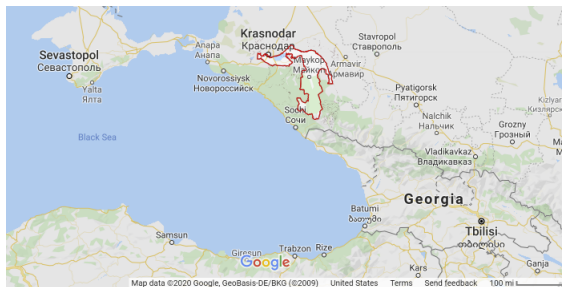
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## West Circassian (or Adyghe):

- ▶ Northwest Caucasian
- ▶ primarily spoken in the Republic of Adyghea, Russia



**Data** from fieldwork on **Temirgoy dialect** in the Shovgenovsky district of Adyghea, collected during three trips in 2017-2019.

# West Circassian is polysynthetic

Head marking and pro-drop:

*səqəpfaɾjəβelɛβ<sup>w</sup>əβ*

<b>me</b>	<b>for your sake</b>	<b>to them</b>	<b>he</b>			
↓		↓	↓			
sə-	qə-	p-f-	a-r-	jə-	βe-	λɛβ <sup>w</sup> ə -β
1SG.ABS-	DIR-	2SG.IO-BEN-	3PL.IO-DAT-	3SG.ERG-	CAUS-	see -PST

‘He showed me to them for your sake.’

(Korotkova and Lander 2010:301)

**Agreement order:** **ABS-** **IO+APPL-** **ERG-**

# Head marking on nominals

Possessor agreement:

s-                    šəpχ<sup>w</sup> əxer  
**1SG.POSS-** sister.PL.ABS

**'my sisters'**

# Case marking is ergative

**S**

mə pšaše-**r**      daxew qaš<sup>w</sup>e  
this girl-**ABS**      well      dances

‘This girl dances well.’

**A**

**O**

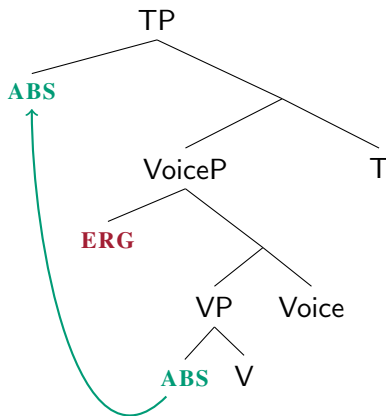
sabəjxe-**m**      haxe-**r**      qaλeβ<sup>w</sup>əβ  
children-**ERG**      dogs-**ABS**      saw

‘The children saw the dogs.’



# West Circassian is high absolutive

ABS object obligatorily raises to Spec,TP.



**Evidence:** reciprocal binding

(Ershova 2019, to appear b)

Reciprocals are covert and trigger **reciprocal agreement** on the predicate:

- ▶ correlates with syntactic position of the reciprocal
- ▶ does not affect transitivity  $\Rightarrow$  not a de-transitivizing operator

Reciprocals are subject to Condition A

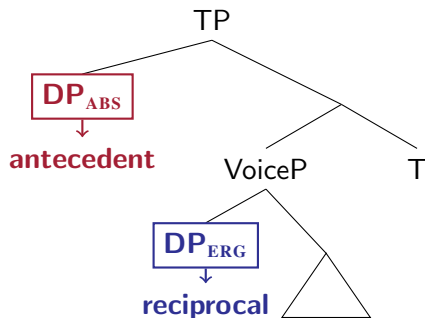
= must be bound by a local c-commanding antecedent

(see Appendix)

(Ershova 2019, to appear b)

# Reciprocal binding provides evidence for high ABS

ABS can bind reciprocal in ERG position.



# High ABS binds ERG

**you**      **we**  
↓            ↓  
š<sup>w</sup>ə-      t-      λeβ<sup>w</sup>əβ  
2PL.ABS- 1PL.ERG- see.PST

**BASELINE**

'We saw you(pl).'

# High ABS binds ERG

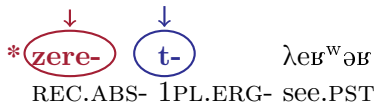
**we**      **each other**  
↓            ↓  
**tə-**      **zere-**      λeɸ<sup>w</sup>əɸ  
1PL.ABS- REC.ERG- see.PST

**RECIPROCAL**

'We saw each other.'

# Obligatory high ABS: ERG cannot bind ABS

each other we

  
\*zere- t-  $\lambda e_B^w \theta_B$   
REC.ABS- 1PL.ERG- see.PST

**\*ABS = REC**

Intended: 'We saw each other.'

- ◇ Parasitic gaps, high ABS and ergative extraction
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**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up:** a nuanced typology of syntactic ergativity

# Structure of relative clauses

(Caponigro and Polinsky 2011; Lander 2012; Ershova 2021)

## Finite clause:

a-š'                      txələ-r                      [ mə çəfə-m                      ]  
that-ERG                      book-ABS                      this person-OBL  
Ø-    Ø-                      r-    jə-                      tə-ɸ  
3ABS- 3SG.IO-                      DAT- 3SG.ERG- give-PST

'S/he gave a book to this person.'

## Relative clause:

**WH-AGREEMENT**  
**WH-MOVEMENT**  
[ **Op** txələ-r       <sub>IO</sub> Ø-    **ze-**    r-    jə-                      tə-ɸe                      ]  
                    book-ABS                      3ABS- **WH.IO-**                      DAT- 3SG.ERG- give-PST  
çəfə-r  
person-ABS

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



# No ergative extraction constraint

χərbəzew [ \_\_<sub>ABS</sub> a-š' Ø- ə- bʒə-βe-r ]  
watermelon that-ERG **WH.ABS-** 3SG.ERG- cut-PST-ABS

'the watermelon that he cut'

✓**ABS REL**

[ txələ-r \_\_<sub>IO</sub> Ø- ze- r- jə- tə-βe ] çəfə-r  
book-ABS 3ABS- **WH.IO-** DAT- 3SG.ERG- give-PST person-ABS

'the person to whom s/he gave the book'

✓**IO REL**

č'aləw [ apč'ə-r \_\_<sub>ERG</sub> Ø- zə- q<sup>w</sup>ətə-βe-m ]  
boy glass-ABS 3ABS- **WH.ERG-** break-PST-OBL

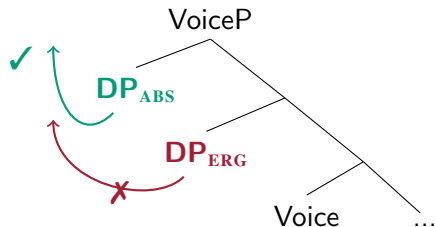
'the boy that broke the glass'

✓**ERG REL**

(Lander 2012:274-276)

# Why no ergative extraction constraint?

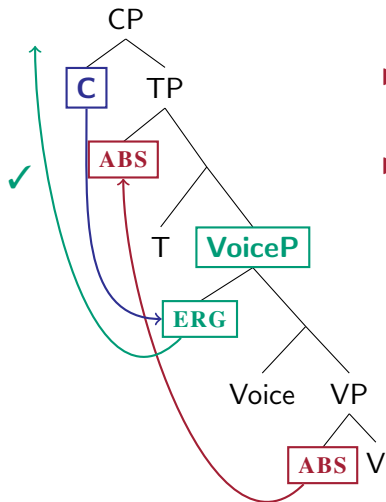
ERG extraction is blocked if ABS moves to Spec, VoiceP:



**Prediction:** If high ABS skips Spec, VoiceP, ERG can move.

This is what happens in West Circassian!

# Prediction confirmed: high ABS $\neq$ ERG can't move



- ▶ ABS raises without stopping in Spec, VoiceP (see Appendix)
- ▶ ERG is in outer Spec, VoiceP  
⇒ ERG can move (despite high ABS)

ERG cannot move  
⇕  
ABS intervention

**Confirmed in West Circassian!**

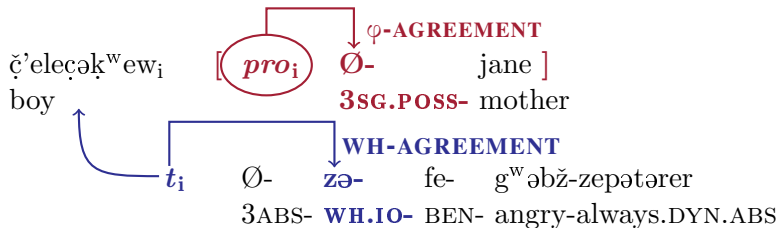
## Summary: high ABS and ERG extraction

In West Circassian, ABS raises without stopping in Spec, VoiceP  
⇒ no Ergative Extraction Constraint!

**Confirmed by parasitic gaps.**

# Parasitic gaps in West Circassian

- ▶ A pronoun that is bound by relativized participant may be replaced by a parasitic gap

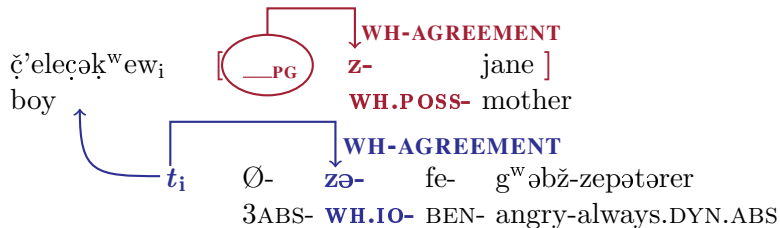


'the boy whom his mother is always angry at'

(Ershova 2021)

# Parasitic gaps in West Circassian

- ▶ A pronoun that is bound by relativized participant may be replaced by a parasitic gap
- ▶ the parasitic gap triggers **parasitic wh-agreement**



'the boy whom [ the mother of \_\_ ] is always angry at'

(Ershova 2021)

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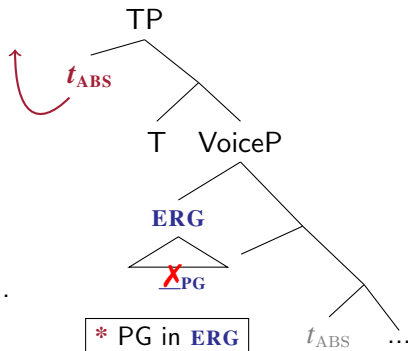
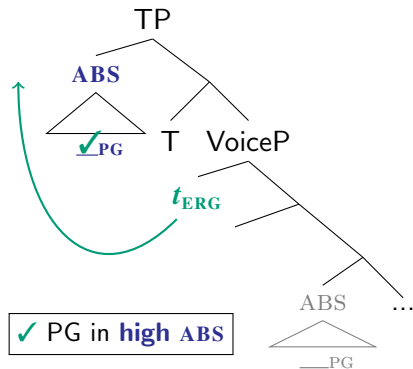
**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up**: a nuanced typology of syntactic ergativity

# ABS raising feeds and bleeds parasitic gap licensing

ABS raises to c-command ERG

- ▶ ERG trace can license PG in ABS DP
- ▶ ABS trace cannot license PG in ERG DP

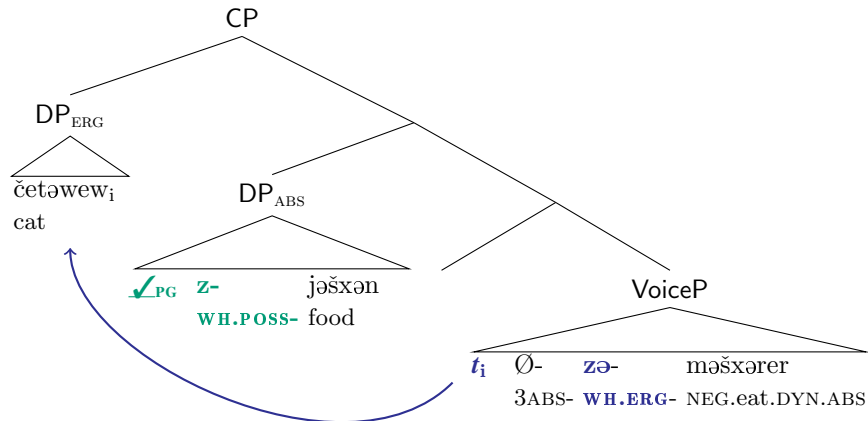
**ANTI-C-COMMAND  
CONDITION**





# ABS raising feeds parasitic gap licensing

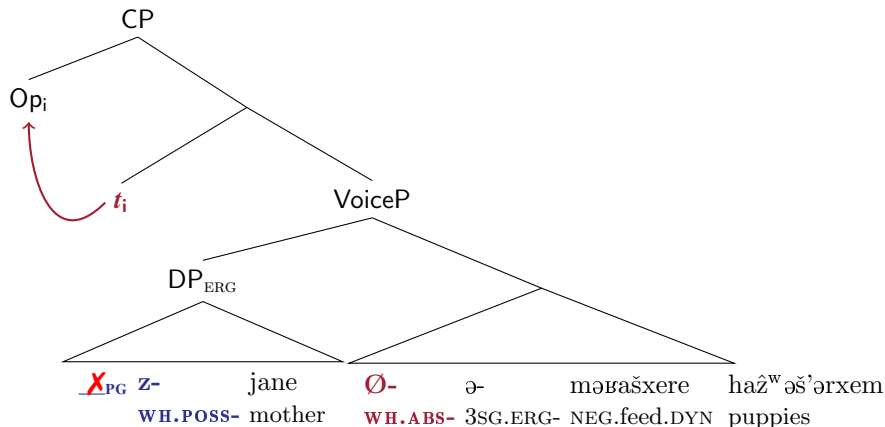
ERG trace licenses parasitic gap in high ABS:



lit. 'the cat who \_\_\_ doesn't eat the food of \_\_\_'

# ABS raising bleeds parasitic gap licensing

High ABS cannot license parasitic gap in ERG DP:



Intended: 'the puppies whom [ the mother of \_\_ ] doesn't feed \_\_'

# Summary: high ABS and parasitic gaps in West Circassian

Obligatory high ABS

- ▶ moves to Spec,TP
- ▶ without stopping in Spec,VoiceP

⇒ **No Ergative Extraction Constraint!**

High ABS feeds and bleeds parasitic gap licensing:

- ▶ ERG can license PGs in high ABS
- ▶ high ABS cannot license PGs in ERG

Parasitic gaps confirm: ERG can move in high ABS language

If high ABS does not stop in Spec,VoiceP, ERG can move.

⇒ ERG can license PG in ABS DP.

## Lesson from West Circassian parasitic gaps:

- ▶ high ABS, but ERG can move
- ▶ ERG can license PG in ABS DP

Prediction: No PG if high ABS blocks ERG extraction

If high ABS moves to Spec, VoiceP, ERG cannot move.

⇒ ERG cannot license PG in ABS DP.

**Confirmed in Samoan!**

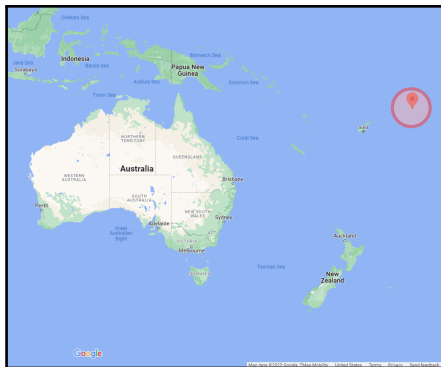
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**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up:** a nuanced typology of syntactic ergativity

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



**VERB**                      **SUBJ**                      **OBJ**  
E    tausi   e    le   tinā   o    Natia ia.  
PRS   care   ERG   the mother GEN   Natia s/he

‘Natia’s mother takes care of her.’

**VERB** **OBJ**                      **SUBJ**  
E    tausi   ia    e    le   tinā   o    Natia.  
PRS   care   s/he ERG   the mother GEN   Natia

‘Natia’s mother takes care of her.’



# Ergative case marking

Na tanu [ **ERG** e le maile ] [ **ABS** le pogāivi ] i le oneone.  
PST bury **ERG** the dog the bone OBL the sand

‘The dog buried the bone in the sand.’

**transitive**

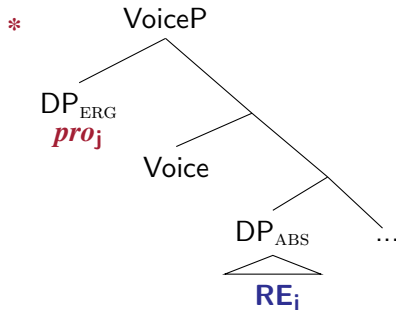
E moe [ **ABS** l-a’u maile ] i ī.  
PRS sleep the-my dog OBL here

‘My dog sleeps in here.’

**intransitive**

Na fafaga **e** **ia<sub>i/\*j</sub>** [ le maile a Lulu<sub>j</sub> ].  
 PST feed ERG s/he the dog GEN Lulu

'S/he<sub>i/\*j</sub> fed Lulu's<sub>j</sub> dog.'

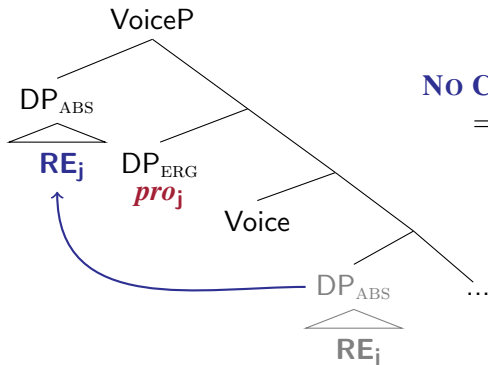


**CONDITION C VIOLATION**

# Optional high ABS: ABS A-scrambles above ERG

	<b>ABS</b>			<b>ERG</b>	
Na	fafaga	[ le maile a Lulu <sub>j</sub> ]		e	ia <sub>i/j</sub> t <sub>ABS</sub> .
PST	feed	the dog GEN Lulu		ERG	s/he

'S/he<sub>i/j</sub> fed Lulu's<sub>j</sub> dog.'



**NO CONDITION C VIOLATION**  
 ⇒ ABS does not reconstruct  
 = **A-SCRAMBLING**

- ▶ ERG c-commands low ABS ← Condition C
- ▶ ABS optionally moves above ERG ← ameliorates Condition C

**Next:** How ABS raising interacts with parasitic gap licensing.

**But first:** Background on topicalization.

- ◇ Parasitic gaps, high ABS and ergative extraction
- ◇ **West Circassian:** high ABS, but ERG can move
  - ▶ Background
  - ▶ Relativization and parasitic gaps
  - ▶ ABS raising feeds PG licensing
- ◇ **Samoan:** high ABS blocks ERG movement
  - ▶ Background
  - ▶ **Topicalization and parasitic gaps**
  - ▶ ABS raising does not feed PG licensing

**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up:** a nuanced typology of syntactic ergativity

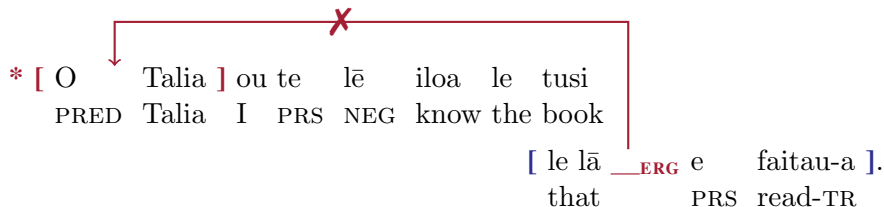
- ▶ Topicalized XP appears preverbally with predicative *o*.
- ▶ ABS and **ERG** optionally resumed with  $\phi$ -agreeing pronoun.

[O a'u ] na (ou) aumai-a l-au tusi.  
PRED I PST (I) give-TR the-2SG book

'It was me who brought your book.'

# No Ergative Extraction Constraint

ERG topicalization is movement-derived: cannot cross island boundary.

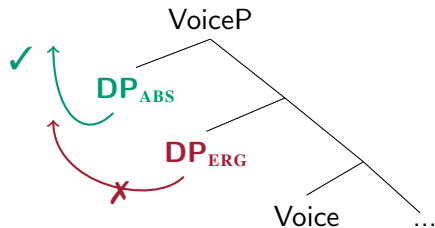


Intended: 'It is Talia, I don't know the book that \_\_ is reading.'

⇒ **no Ergative Extraction Constraint!**

# Why no ergative extraction constraint?

ERG extraction is blocked if ABS moves to Spec, VoiceP:

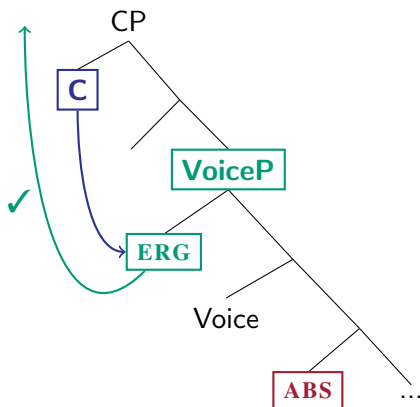


In Samoan, ABS raising is optional.

⇒ ERG can move when ABS stays low.



# Prediction confirmed: ERG can move if ABS stays low



- ▶ ABS stays low
- ▶ ERG is in outer Spec, VoiceP  
⇒ ERG can move

connection between  
ABS raising and  
ERG extraction


## Confirmed in Samoan:

If ABS does not raise, ERG can move.

**GEN** and OBL DPs are obligatorily resumed with 3SG pronoun regardless of  $\varphi$ -features

E    moe l-**a'u**    maile i    ī.  
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

'It is me whose dog sleeps here.'

## $\varphi$ -deficient resumptives

GEN and **OBL** DPs are resumed with inanimate 3SG pronoun regardless of  $\varphi$ -features

Na togi [iā te a'u] e le tama le polo.  
PST throw OBL **I** ERG the boy the ball

'The boy threw the ball to me.'

[O a'u] na togi **i ai** e le tama le polo.  
PRED I PST throw OBL **it(OBL)** ERG the boy the ball


'It was to me the boy threw the ball.'

# Resumptive pronouns are movement-derived

$\varphi$ -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 \_\_.'

$\varphi$ -deficient resumptives spell out an  $\bar{A}$ -trace.

⇒ can be used as a diagnostic for  $\bar{A}$ -movement.

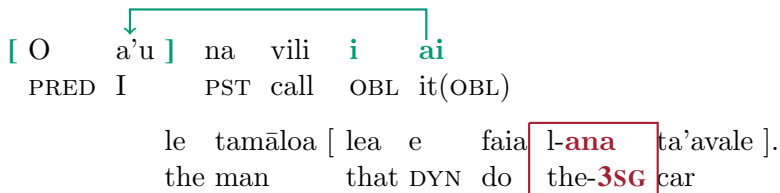
## $\varphi$ -deficient resumptives can be parasitic

[ O a'u ] na vili i ai  
PRED I PST call OBL it(OBL)

le tamāloa [ lea e faia l-a'u ta'avale ].  
the man that DYN do the-1SG car

'It was me the man [who is fixing my car] called \_\_.'

## $\varphi$ -deficient resumptives can be parasitic



'It was me the man [who is fixing the car of \_\_] called \_\_.'

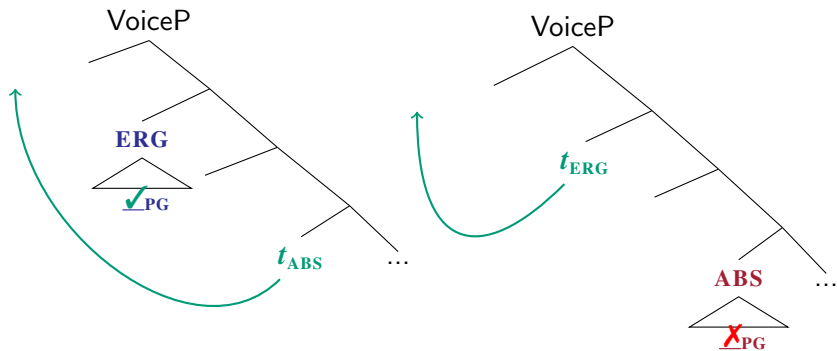
Parasitic  $\varphi$ -deficient resumptives = **parasitic gaps** (see Appendix)

**Next:** interaction between ABS raising and parasitic resumptives

- ◇ Parasitic gaps, high ABS and ergative extraction
- ◇ **West Circassian:** high ABS, but ERG can move
  - ▶ Background
  - ▶ Relativization and parasitic gaps
  - ▶ ABS raising feeds PG licensing
- ◇ **Samoan:** high ABS blocks ERG movement
  - ▶ Background
  - ▶ Topicalization and parasitic gaps
  - ▶ **ABS raising does not feed PG licensing**  
**Ergative Extraction Constraint in action!**
- ◇ **Wrapping up:** a nuanced typology of syntactic ergativity

# ABS raising does not feed or bleed PG licensing

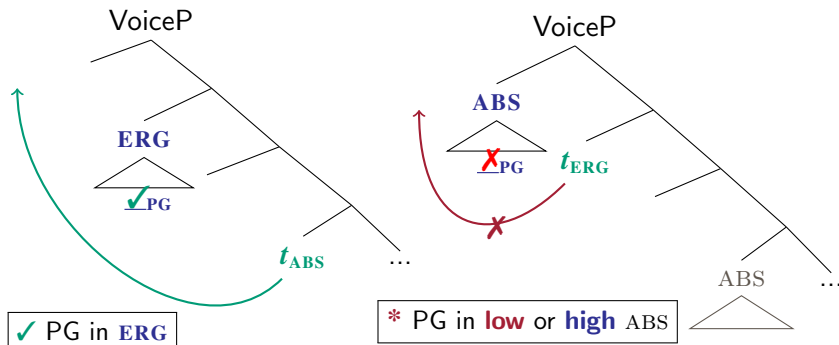
- ▶ ABS raising is optional
  - + low ABS can license parasitic gap in ERG
- ▶ ABS raising blocks ERG movement
  - ⇒ ERG cannot license parasitic gap in ABS






# ABS raising does not feed or bleed PG licensing

- ▶ ABS raising is optional
  - + low ABS can license parasitic gap in ERG
- ▶ ABS raising blocks ERG movement
  - ⇒ ERG cannot license parasitic gap in ABS



# ERG trace cannot license PG in ABS DP

[O a'u ] na fafāgā ERG  
PRED I PST feed.TR



[ tamaiti na aumai-a fugala'au **iā te a'u.** ]  
child.PL PST give-TR flower OBL I(OBL)

'It was me who fed the kids who brought the flowers to me.'

# ERG trace cannot license PG in ABS DP

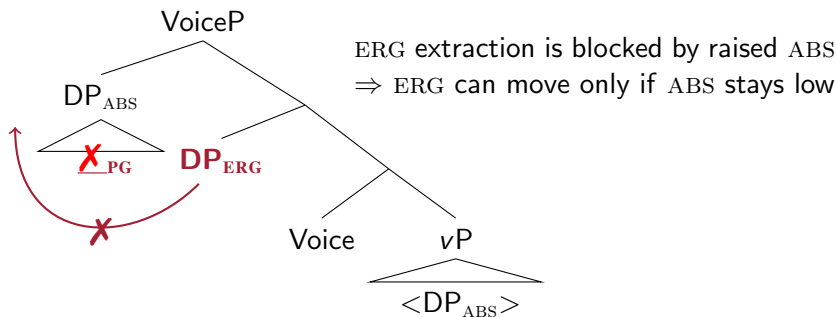
\* [O a'u ] na fafāgā ERG  
PRED I PST feed.TR

[ tamaiti na aumai-a fugala'au **i ai.** ]  
child.PL PST give-TR flower OBL it(OBL)

X

'It was me who fed the kids who brought the flowers to me.'

# ABS raising blocks ERG movement



## ERG cannot license PGs in ABS DP:

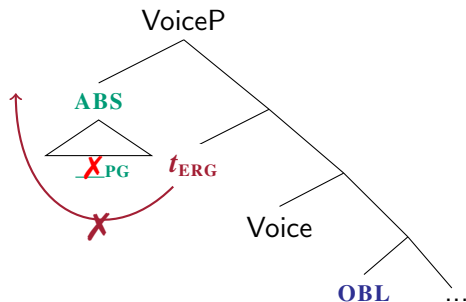
- ▶ if no A-scrambling, because ERG c-commands ABS.
- ▶ if ABS has A-scrambled, because high ABS blocks ERG extraction.

But only ERG movement is blocked by ABS raising.

→ as predicted by the analysis! (details in Appendix)

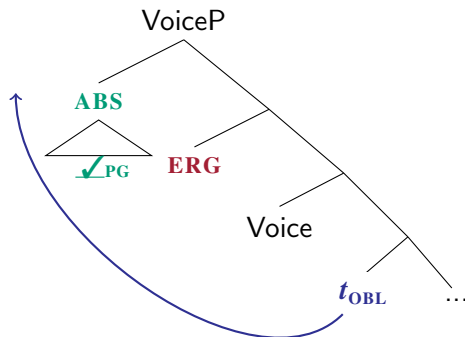
# High ABS blocks only ERG: prediction for parasitic gaps

- ▶ ABS in Spec, VoiceP blocks ERG extraction  
⇒ ERG cannot license PG in ABS DP



# High ABS blocks only ERG: prediction for parasitic gaps

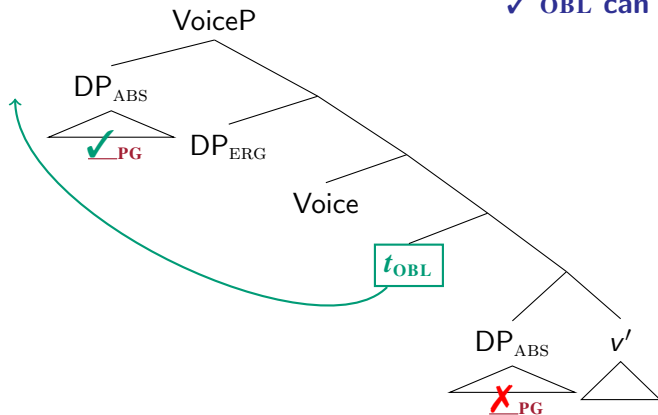
- ▶ ABS in Spec, VoiceP blocks ERG extraction  
⇒ ERG cannot license PG in ABS DP
- ▶ high ABS does not block other arguments  
⇒ **non-ERG trace (e.g. OBL) can license PG in ABS DP!**



# ABS raising only blocks ERG movement

- ▶ OBL indirect object c-commands ABS object (see Appendix)  
⇒ PG in base position of ABS is ungrammatical
- ▶ A-scrambling of ABS ⇒ OBL can license PG in ABS

✓ OBL can move!



# A-scrambling feeds parasitic resumptives in OBL

**OBL** indirect object can license PG in **ABS** direct object:

→ [O a'u ] na aumai e le teine tausima'i  
PRED I PST give ERG the girl nurse

✓ [ l-ana tama-tama ] i ai.  
the-3SG child-child OBL it(OBL)

'It was me the nurse gave my son to.'



# Summary: high ABS and parasitic resumptives in Samoan

- ▶ ABS raising to Spec,VoiceP blocks ERG extraction
- ▶ ABS raising is optional  $\Rightarrow$  ERG can move when ABS stays low
- ▶ ERG blocking observable only with parasitic resumptives:
  - ERG cannot license PG in high ABS  
 $\Rightarrow$  Ergative Extraction Constraint
  - non-ERG trace can license PG in high ABS  
 $\Rightarrow$  only ERG is blocked by high ABS

## The other piece of the puzzle: West Circassian

- ▶ high ABS, but ERG can move  
 $\Rightarrow$  ERG can license PG in high ABS
- ▶ ERG is blocked by ABS in Spec,VoiceP, not high ABS generally

- ◇ Parasitic gaps, high ABS and ergative extraction
- ◇ **West Circassian:** high ABS, but ERG can move
  - ▶ Background
  - ▶ Relativization and parasitic gaps
  - ▶ ABS raising feeds PG licensing
- ◇ **Samoan:** high ABS blocks ERG movement
  - ▶ Background
  - ▶ Topicalization and parasitic gaps
  - ▶ ABS raising does not feed PG licensing

**Ergative Extraction Constraint in action!**
- ◇ Wrapping up: a nuanced typology of syntactic ergativity

# Wrapping up: Why ERG can't move

## Ingredients of the Ergative Extraction Constraint

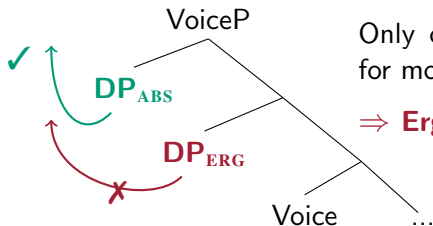
### Position of ERG:

ERG merges at phase edge  
= Spec, VoiceP

+

### High ABS:

ABS raises to outer  
Spec, VoiceP



Only outer phase edge is accessible  
for movement.

⇒ **Ergative Extraction Constraint**

## The analysis confirms:

The Ergative Extraction Constraint is reducible to standard notions of **locality** and **syntactic domains**.

## Explains:

- ▶ why only ERG cannot move cf. OBL in Samoan
- ▶ why high ABS doesn't always block ERG extraction  
cf. no Ergative Extraction Constraint in West Circassian

# A more nuanced typology of syntactic ergativity

## Previous research:

- ▶ High ABS  $\Rightarrow$  Ergative Extraction Constraint
- ▶ Low ABS: ERG displacement not influenced by ABS

## This talk: the typology is more complex

- ▶ High ABS does not universally block ERG extraction

**cf. West Circassian**

- ▶ A language can be both high and low ABS

ERG extraction conditioned by ABS raising + ERG position.

**cf. Samoan**

# An expanded, but constrained typology

The analysis expands the typology of syntactic ergativity.

**But not everything is possible!**

ABS moves to Spec, VoiceP, where ERG is introduced.

**Explains why ERG is special!**

There aren't comparable constraints on other types of arguments, e.g. dative or accusative, because they are not in Spec, VoiceP.

# Parasitic gaps as a diagnostic for ERG movement

Parasitic gaps are

- ▶ licensed by  $\bar{A}$ -movement
- ▶ sensitive to c-command

PGs can be used to diagnose the interaction between ABS raising and ERG extraction.

In a language with optional ABS raising (e.g. Samoan), this is the only available diagnostic!

When ABS is low, ERG can move.

⇒ ERG extraction constraint is observable only with parasitic gaps!

# The building blocks of typological variation

## West Circassian and Samoan

expand the empirical landscape of syntactic ergativity,  
but narrow down the syntactic components behind the variation.

Through the prism of **parasitic gaps**

= a complex long-distance dependency between empty categories  
which, despite vastly different surface manifestations,  
display a stable set of complex properties.

⇒ Attention to typological diversity brings us closer to establishing  
the shared skeleton at the core of all languages.

A finite set of basic building blocks underlie strikingly different  
surface patterns.



# Thank you!

- ▶ West Circassian consultants: Svetlana K. Alishaeva, Saida Gisheva, Susana K. Khatkova, and Zarema Meretukova
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Reciprocals are covert and trigger **reciprocal agreement** on the predicate:

- ▶ correlates with syntactic position of the reciprocal
- ▶ does not affect transitivity  $\Rightarrow$  not a de-transitivizing operator

Reciprocals are subject to Condition A

= must be bound by a local c-commanding antecedent

(Ershova 2019, to appear b)



# Reciprocal agreement

**ABS** external argument binds **IO**

⇒ REC replaces IO agreement

**you**

**with us**

↓  
š<sup>w</sup>ə-

qə-

↓  
d-

de-

š<sup>w</sup>eš't

2PL.ABS- DIR- 1PL.IO- COM- dance.FUT

**BASELINE**

'You(pl) will dance with us'

# Reciprocal agreement

**ABS** external argument binds **IO**

⇒ REC replaces IO agreement

**you**

**with each other**

↓  
š<sup>w</sup>ə-

qə-

↓  
ze-

de-

š<sup>w</sup>eš't

2PL.ABS- DIR- REC.IO- COM- dance.FUT

**RECIPROCAL**

'You(pl) will dance with each other'

# Reciprocal agreement does not affect transitivity

## ERG binds IO

- ▶ REC replaces IO agreement
- ▶ ERG antecedent bears OBL (=ERG) case

axe-**me**      ʔeg<sup>w</sup>əbʒe-r Ø-    **ze-**      r-    **a-**      təž'ə  
that.PL-**OBL**    cup-ABS    3ABS- **REC.IO-**    DAT- **3PL.ERG-**    give

'They pass the cup to each other.'

(<http://adyghe.web-corpora.net/>)

# Reciprocal agreement does not affect transitivity

## ABS binds IO

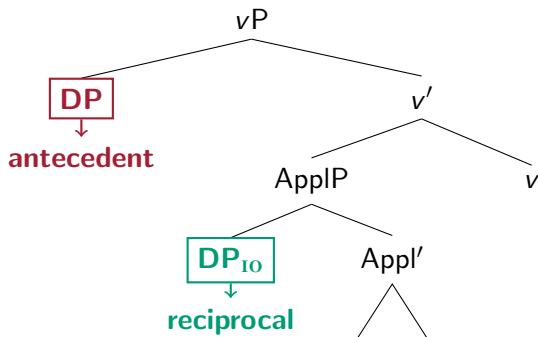
- ▶ REC replaces IO agreement
- ▶ ABS antecedent bears ABS case

sabəjxe-**r**    Ø-    **z-**    e-    pλəž'əx  
child.PL-**ABS** 3ABS- **REC.IO-** DAT- look.PL

'The children are looking at each other.'

# Reciprocal binding is established via c-command

**ABS/ERG** external argument binds **IO**:



# Reciprocals and high absolutive

Reciprocals provide evidence for high absolutive:

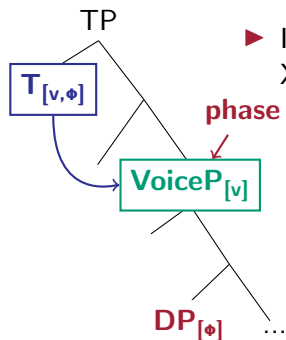
- ▶ reciprocals are bound by a c-commanding antecedent
- ▶ **ABS** binds **ERG** and **IO**  
⇒ **ABS** c-commands **ERG** and **IO**

**ABS** binds **IO**:

**us**      **each other**  
↓            ↓  
⊙ **tə-**      ⊙ **ze-**      f-      jə-      š'aɞ  
**IPL.ABS-** **REC.IO-** BEN- 3SG.ERG- bring.PST

'S/he brought us together (= to each other).'

# How can ABS skip the phase edge?



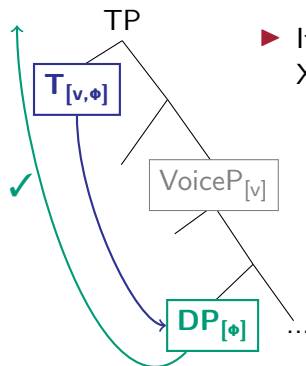
▶ All **phases** are potential **goals**

▶ If **P** independently agrees with phase **XP**,  
XP is no longer visible for P

⇒ XP is no longer a phase

(Richards 1998; Rackowski and Richards 2005; Van Urk and Richards 2015; Halpert 2019; Ershova to appear a)

# How can ABS skip the phase edge?



- ▶ All **phases** are potential **goals**
- ▶ If **P** independently agrees with phase **XP**,  
XP is no longer visible for P  
⇒ XP is no longer a phase
- ▶ **P** can probe into **XP**.
- ▶ **YP** inside phase **XP** is closest goal.  
⇒ **YP** skips phase edge.

(Richards 1998; Rackowski and Richards 2005; Van Urk and Richards 2015; Halpert 2019; Ershova to appear a)




# Parasitic resumptives = parasitic gaps

- ▶ may appear in syntactic islands

## E.G. IN ENGLISH:

\* [Which articles ] did John file the manuscript [without reading \_\_ ]?



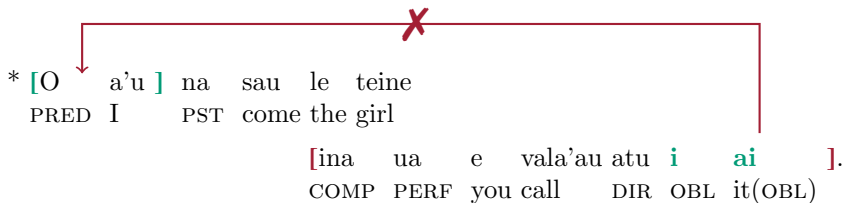
[Which articles ] did John file \_\_ [without reading \_\_ ]?



(Engdahl 1983 *et seq.*)

# Parasitic resumptives = parasitic gaps

- ▶ may appear in syntactic islands

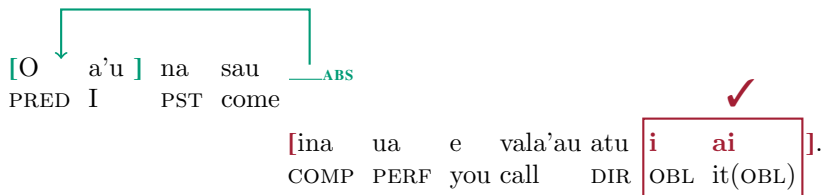


lit. 'It was me who the girl came when you called \_\_.'

(Engdahl 1983 *et seq.*)

# Parasitic resumptives = parasitic gaps

- ▶ may appear in syntactic islands



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

(Engdahl 1983 *et seq.*)

# Parasitic resumptives are only licensed by $\bar{A}$ -movement

## E.G. IN ENGLISH:

**A-MOVEMENT**

\* [John] was killed \_\_\_ by a tree falling on \_\_\_<sub>PG</sub>.

(Engdahl 1983 *et seq.*)

## Raising cannot license parasitic resumptive:

E    mafai [ ona    **ou** sau  
PRS can    COMP I    come

[ pe'a e    vala'au atu    **iā te a'u** ] ].  
when you call    DIR OBL I

'I can come when you call for me.'

(Engdahl 1983 *et seq.*)

## Raising cannot license parasitic resumptive:

\* **Ou** te mafai [ ona — sau  
I PRS can COMP come  
[ pe'a e vala'au atu **i ai** ] ].  
when you call DIR OBL it(OBL)

'I can come when you call for me.'

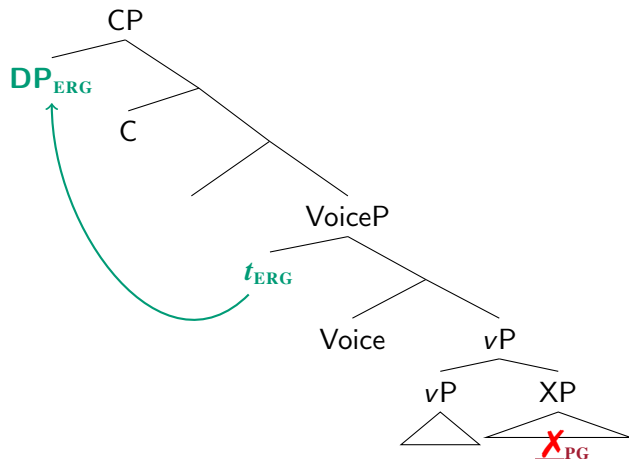
(Engdahl 1983 et seq.)

# The anti-c-command condition in Samoan

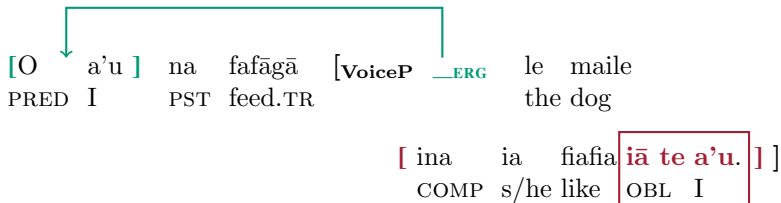
- ▶ ERG in Spec, VoiceP
- ▶ ABS in Spec, vP

(Tollan 2018; Tollan and Massam 2022; Ershova 2023)

ERG trace cannot license PG in vP adjunct:



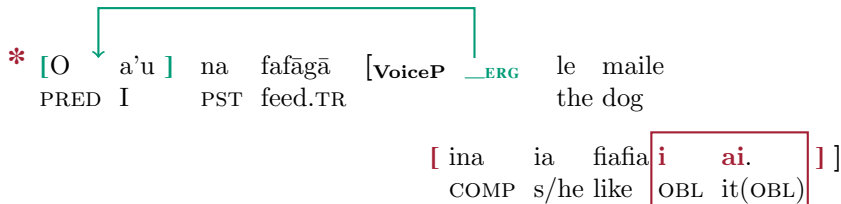
# Ergative trace cannot license PG in vP adjunct



'It was me who fed the dog so it would like me.'



# Ergative trace cannot license PG in vP adjunct

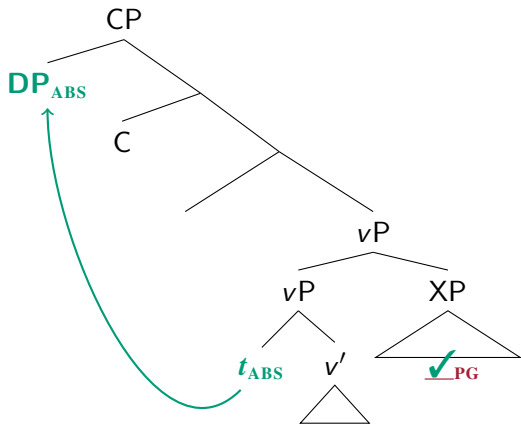


'It was me who fed the dog so it would like me.'

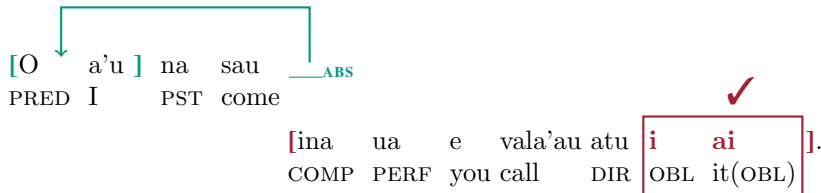
## Contrast with:

- ▶ ABS agent of unergative verb
- ▶ ERG in embedded clause

# ABS agent can license parasitic gap in vP adjunct

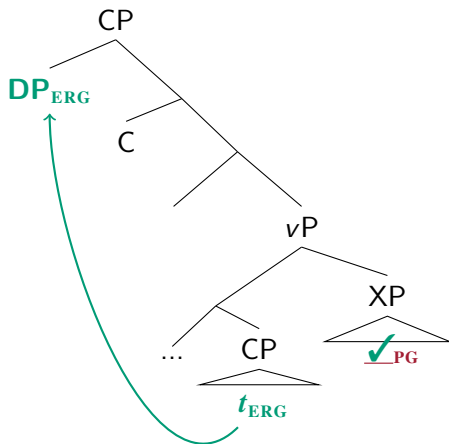


# ABS agent can license parasitic gap in vP adjunct

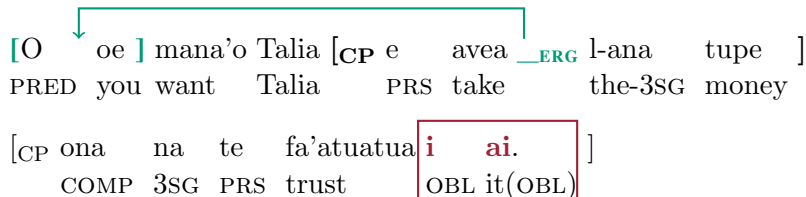


'It was me who \_\_\_ came when you called \_\_\_.'

# Embedded ERG can license parasitic gap in vP adjunct



# Embedded ERG can license parasitic resumptive



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

- ▶ **OBL** indirect object c-commands **ABS** direct object

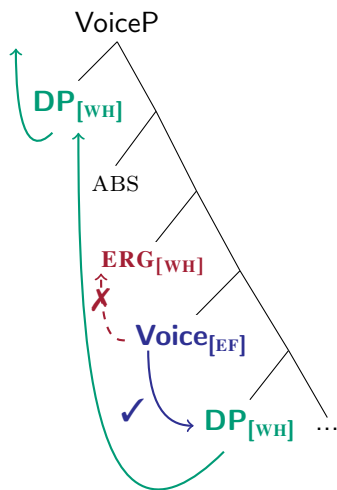
Evidence from Condition C:

Na ou aumai-a *pro<sub>j</sub>* [ le tama teine a **RE<sub>j</sub>** Talia<sub>j</sub> ].  
PST I bring-TR OBL s/he the child girl GEN Talia  
'I brought Talia's<sub>j</sub> daughter to her<sub>i/\*j</sub>.'

- ▶ **ABS** direct object A-scrambles to Spec, VoiceP  
⇒ no reconstruction for Condition C

Na ou aumai-a [ le tama teine a Talia<sub>j</sub> ] **RE<sub>j</sub>** *pro<sub>i/j</sub>* **pro<sub>i/j</sub>** *ia<sub>i/j</sub>* te *ia<sub>i/j</sub>*.  
PST I bring-TR the child girl GEN Talia OBL s/he  
'I brought Talia's<sub>j</sub> daughter to her<sub>i/j</sub>.'

# Prediction: Only ERG can't move



- ▶ **Successive-cyclic movement:** to move out of phase YP, XP must move to Spec,YP.
- ▶ Triggered by edge feature on phase head, which probes **down**.
- ▶ Lower XPs can move to outer Spec, VoiceP above ABS.
- ▶ ERG cannot move to outer Spec, VoiceP above ABS.

Only ERG cannot move.  
Other DPs can move.

(Georgi 2014, 2017; Ershova to appear a)