1 Introduction

Parasitic gaps as in (1) have often been used to diagnose whether scrambling is A- or A'-movement (papers in Corver and van Riemsdijk 1994; Karimi 2003a,b, a.o.).

(1) Who do [friends of _PG] often end up hating _? (Nissenbaum 2000:22)

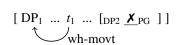
If scrambling licenses a parasitic gap, then it is A'-movement:

(2) a.
$$[XP_i \dots [\underline{N}_{PG}] \dots t_i]$$
 b. $[XP_i \dots [\underline{N}_{PG}] \dots t_i]$ A-scrambling

Parasitic gap \sim scrambling connection from a different angle:

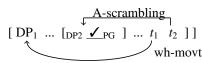
If a language allows PGs within DPs, A-scrambling should feed PG licensing in cases which would otherwise trigger a violation of the anti-c-command condition.

- (3) ANTI-C-COMMAND CONDITION ON PARASITIC GAPS (Engdahl 1983): The licensing gap cannot c-command the parasitic gap.
- **Pre-scrambling structure:** *anti-c-command



(5) **Post-scrambling structure:**

✓anti-c-command



This prediction is confirmed in West Circassian.

West Circassian (or Adyghe, Northwest Caucasian family) is polysynthetic: radical head marking, pro-drop, free word order

Standard cues for diagnosing scrambling (e.g. word order) cannot be easily identified.

Parasitic gaps can be identified via morphological clues = multiple wh-agreement.

Roadmap: 2 Background on West Circassian; 3 Multiple wh-agreement as a parasitic gap dependency; 4 The anti-c-command condition; 5 A-Scrambling; 6 Conclusion.

2 Background on West Circassian

2.1 General clause structure

- Polysynthesis:²
 - (6) sə-1SG.ABS- DIR- 2SG.IO- BEN- 3PL.IO- DAT- 3SG.ERG- CAUS- see 'He showed me to them for your sake.' (Korotkova and Lander 2010:301)
- Cross-reference morphology strictly ordered per ergative alignment:
 - a. ABS-APPL-ERGdeš'aʁ 1SG.ABS-3PL.IO-COM-1SG.ERG-bring.PST 'I brought you with them' (Rogava and Keraševa 1966:160)
 - APPLb. ABSq- afe- kwar wə-2SG.ABS-DIR-3PL.IO-BEN-go.PST 'You went' (Rogava and Keraševa 1966:138)
- Possessee marked with personal marker referring to possessor:
 - (8) \mathbf{s} - \mathbf{s} - $\mathbf{p}\chi^{w}$ - \mathbf{p} - \mathbf{x} e- \mathbf{r} 1SG.PR-sister-PL-ABS 'my sisters' (inalienable)
- (9) \mathbf{t} - \mathbf{i} \mathbf{o} - \mathbf{g} \mathbf{w} \mathbf{o} - \mathbf{n} \mathbf{e} \mathbf{w} \mathbf{o} - \mathbf{x} \mathbf{e} - \mathbf{m} 1PL.PR-POSS-neighbor-PL-OBL 'our neighbors' (alienable)
- Ergative alignment in case marking:
 - **-r** (absolutive) = subject of intransitive verb, theme of transitive verb -m (oblique) = agents of transitive verbs, applied objects, possessors, complements of postpositions
- Indefinite nouns, possessed nominals in the singular, proper names and personal pronouns are usually unmarked for case (Arkadiev et al. 2009:51-52; Arkadiev and Testelets 2015) \Rightarrow case markers are definite determiners (D⁰).

¹The data for this talk comes from the Temirgoy dialect and was collected in Maykop and the Khatazhukay rural settlement (Republic f Adygea, Russia) in fall 2017 and summer 2018. The author thanks the speakers of West Circassian for their help, especially Svetlana K. Alishaeva, Saida Gisheva, Susana K. Khatkova, and Zarema Meretukova. The author is grateful to Karlos Arregi, Yury Lander, Jim McCloskey, Jason Merchant, David Pesetsky, and the audiences at the Morphology & Syntax Workshop at UChicago and NELS 48 for feedback and helpful discussion of various aspects of this project. This work was funded by the Graduate Research Aid Initiative in Linguistics from the University of Chicago, the Dissertation Research Grant from the Association for Slavic, East European, and Eurasian Studies, and the NSF Doctoral Dissertation Research Improvement Grant #1749299. All mistakes are my own.

²Glosses: ABSolutive; ADV-adverbial; BENefactive; CAUSative; DATive; DIRective; ERGative; HABITual; 10indirect object; LIMitive; LOCative; MODal future; NEGation; OBLique; PLural; POSSessive; PP-complement of postposition; PR-possessor; PREDicative; PRS-present tense; PST-past; Question; SG-singular.

2.2 Relative clauses

Per Lander (2009a,b, 2012); Caponigro and Polinsky (2011)

Relativization is the only type of wh-movement.

(10) General structure of relative clauses (Caponigro and Polinsky 2011):

[CP Op_i C[WH] [TP ...
$$t_i$$
 ...]]

• ϕ -agreement referring to the relativized participant replaced by **wh-agreement**:

z(a) = ergative agents, applied objects, and possessors

 \emptyset - = absolutive arguments

• **Nominal head** (i) appears to the left of relative clause with -ew (ADV) case marking; (ii) to the right with regular case marking; (iii) is null (in headless relative clauses).

(11) Relativization of an ergative agent:

a. mə ç'ale-m_i(ERG) ə-š velosjəped this boy-OBL 3SG.PR-brother bicycle Ø- Ø- r- jə- tə -в 3ABS- 3SG.IO- DAT- **3SG.ERG**- give -PST

'This boy gave a bicycle to his brother.'

'Here is the boy that gave a bicycle to his brother.'

2.3 Multiple wh-agreement

Multiple wh-agreement: if the relativized participant is co-referent with another argument in the clause, that argument may trigger additional wh-agreement.

(12) marə č'al-ew [RC Opi [DP $pro_i(PR)$ ə / zə-š](ERG) $t_i(IO)$ here boy-ADV 3SG/WH.PR-brother velosiped Ø- qə- ze- r- jə- tə -ze- | -r bicycle 3ABS- DIR- WH.IO- DAT- 3SG.ERG- give -PST -ABS 'Here is the boy_i to whom his_i brother gave a bicycle.'

May also appear cross-clausally:

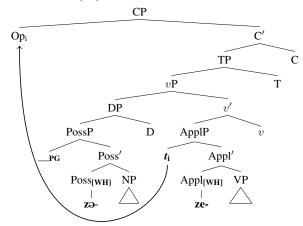
'Here is the boy who is eating jam without finishing the soup.'

3 Multiple wh-agreement as a parasitic gap dependency

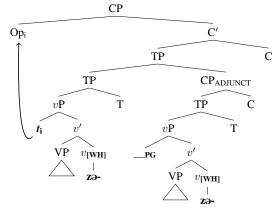
Main point: parasitic gaps can be diagnosed via multiple wh-agreement.

- One-to-one mapping between wh-traces and wh-agreement.
- Additional wh-agreement is agreement with a parasitic wh-trace.

(14) Structure for (12):



(15) Structure for (13):



Multiple wh-agreement displays properties typical of parasitic gaps (Ershova 2018b):

- Additional wh-agreement in multiple wh-agreement is mostly optional.
- Additional wh-agreement may appear within islands for extraction:

Non-absolutive DPs:³

a. * marə ŝ^wəz-ew [RC Op_i [DP t_i z-jə-č'ale](ERG) dax-ew here woman-ADV WH.PR-POSS-boy good-ADV wered Ø- a- ə-?we -re 1 -r song 3ABS-DIR-3SG.ERG-say -PRS -ABS

Expected: 'Here is the woman whose son sings (lit. says songs) well.'

b. $[_{RC} Op_i \quad [_{DP} pro_i/_{PG}(PR) \quad \emptyset / z-jate](ERG)$ $t_{\rm i}({
m IO})$ mašjəne 3SG / WH.PR-father car r- iətə -ве l č'ale-m siex^wapse aə- **ze**-3ABS- DIR- WH.IO- DAT- 3SG.ERG- give -PST boy-OBL I envy 'I envy the boy to whom, his, father gave a car.'

(17) Clausal adjuncts:

a. * xet-a [RC Opi Zarine $[_{ADJUNCT} t_i(IO)]$ Zarine 3ABS- WH.IO- DAT- NEGwho-0 wəpč'əž' -ew] mə pŝaŝe-m qəfjəš'efəке] this girl-OBL 3SG.IO(BEN)+3SG.ERG.buy.PST -ABS -ADV lit. 'Whom did Zarina buy a book for this girl [without asking].'

b. xet-a $[_{RC} Op_i]$ Zarine $[_{ADJUNCT} pro_i]$ $p_G(IO)$ i / **z**who-o Zarine 3ABS-3SG/WH.10mə- wəpč'əž'-ew] qə- **z**f- jə $t_{\rm i}({
m IO})$ DAT- NEG- ask 3ABS- DIR- WH.IO- BEN- 3SG.ERG--ADV š'efə -ве] -r buy -PST -ABS

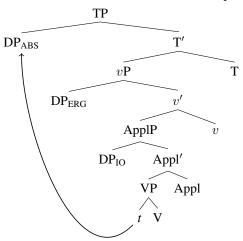
'Whom did Zarina buy a book for [without asking].'

Additional evidence for parasitic gap analysis of multiple wh-agreement in **Appendix A**.

4 The Anti-C-Command Condition

Parasitic gaps in West Circassian are subject to the anti-c-command condition (Ershova 2018b,a):

- (18) ANTI-C-COMMAND CONDITION: "A parasitic gap may not be c-commanded by the real gap." (Engdahl 1983:22)
- West Circassian is a **high-absolutive** language: DP_{ABS} is assigned case by T⁰ and moves to Spec, TP.
- Previous proposals for high absolutive: Bittner and Hale (1996); Manning (1996); Aldridge (2008); Coon et al. (2014); Yuan (2018)
- \Rightarrow an absolutive trace fails to license parasitic gaps within clausemate DPs⁴
- West Circassian clause structure for three-place predicate:

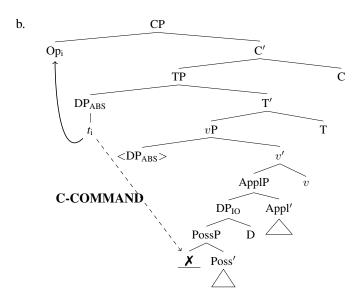


Absolutive external argument + possessor within an applied object DP: *PG

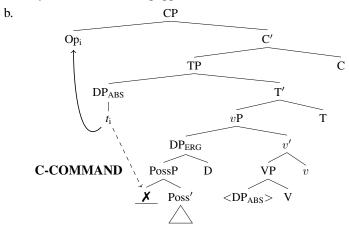
a. se səš'eš'əne ha-w [RC Op_i $t_i(ABS)$ [DP $pro_i / *_{PG}(PR)$ I fear dog-ADV $\emptyset / *z-j - x^w ezjaj - n](10)$ je- cegež'a-se]-m 3sg/*wh.pr-poss-owner WH.ABS-3SG.IO-DAT-bite -PST -OBL 'I fear the dog that bit its owner.'

³See e.g. Bošković (2015, in press) on islandhood of inherent case-marked phrases.

⁴The ban on multiple wh-agreement with a relativized absolutive was first observed by Lander (2009a,b, 2012).



'My heart aches for the puppies whom their mother doesn't feed.'



Ergative and applied object traces can license PGs within DP_{ABS} – see **Appendix B**.

Summary: West Circassian parasitic gaps are subject to the anti-c-command condition – the absolutive trace in Spec,TP cannot license parasitic gaps in other DPs.

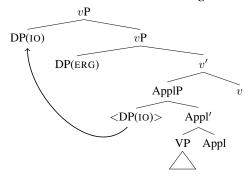
5 Interactions between non-absolutive DPs and A-scrambling

Main claim: The applied object may undergo A-scrambling from Spec, ApplP to Spec, vP above ergative agent.

Evidence: Non-absolutive DPs do not display anti-c-command effects.

Local A-scrambling is common cross-linguistically: e.g. in Hindi (Mahajan 1990, 1994; Dayal 1994), Persian (Karimi 2003b, 2005), Japanese (Grewendorf and Sabel), Georgian (McGinnis 1999), and Tlingit (Cable 2009).

(22) Structure of vP after A-scrambling:



5.1 Non-absolutive DPs are not subject to the anti-c-command condition

Baseline prediction: If XP c-commands YP, wh-movement of XP should fail to license parasitic gap in YP.

 \Rightarrow If DP_{ERG}>DP_{IO}, an ergative trace should fail to license parasitic gaps in DP_{IO}.

This is not borne out:

• Applied object trace can license PG in ergative DP:

(23) marə ç'al-ew [$_{RC}$ Op_i [$_{DP}$ pro_i / $_{PG}$ (PR) ə / zə-š](ERG) here boy-ADV 3SG/WH.PR-brother t_i (IO) velosiped Ø- qə- ze- r- jə- tə - ϵ e] -r bicycle 3ABS- DIR- WH.IO- DAT- 3SG.ERG- give -PST -ABS

'Here is the boy_i to whom his_i brother gave a bicycle.'

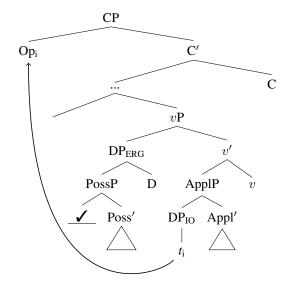
- (!) But ergative trace can likewise license PG in applied object DP:
- (24) marə č'al-ew [RC Opi ti(ERG) [DP proi / PG(PR) ə/zə-š](IO) here boy-ADV 3SG/WH.PR-brother velosjəped Ø- Ø- je- zə- tə -Be] -r bicycle 3ABS- 3SG.IO- DAT- WH.ERG- give -PST -ABS 'Here is the boy whoi gave a bicycle to hisi brother.'

Proposal: the lack of any anti-c-command effect between non-absolutive DPs is a consequence of A-scrambling within vP.

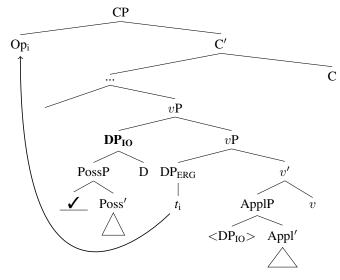
Analysis: v^0 may optionally carry an uEPP feature which allows for the applied object to undergo movement to Spec,vP.

Consequence for parasitic gaps: no anti-c-command effects

(25) a. IO trace licenses PG in ergative DP:



b. ERG trace licenses PG in scrambled applied object DP:



Summary: A-scrambling feeds parasitic gap licensing within the applied object DP by an ergative wh-trace.

5.2 Another puzzle explained: no Weak Crossover effects

Main claim: Clausemate DPs fail to display Weak Crossover effects due to Ascrambling.

Engdahl (1983): potential Weak Crossover configurations give rise to obligatory PGs

- (26) a. Which student, did [your attempt to talk to _/*him,] scare _ to death? (Engdahl 1983:16)
 - b. $[CP \text{ which student}_i \dots [TP [DP \dots _/*him}_i] \dots \text{ scare } t_i \dots]]$

The same pattern holds in West Circassian: wh-movement out of an embedded CP licenses an obligatory parasitic gap in the matrix clause

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(27) a. marə pŝaŝ-ew [RC Opi [CP Č'elejeʁaǯe-r
$$t_i$$
(IO) here girl-ADV teacher-ABS

Ø- qə- z- e- çeçe -n -ew]

3ABS- DIR- WH.IO- DAT- scold -MOD -ADV

[DP _PG / *proi z / *Ø-jane(ABS)] Ø-fe-mə-je] -r

WH/3SG.PR-mother 3ABS-BEN-NEG-want -ABS

'Here is the girl whom; her; mother doesn't want [the teacher to scold]'

b.
$$[_{RC} Op_i \quad [_{DP} __{PG} / *pro_i \dots] \dots [_{CP} \dots t_i (IO) \dots]]$$

A-scrambling analysis correctly predicts lack of Weak Crossover effects between DP_{IO} and DP_{ERG} , i.e. optionality of parasitic gap:

(28) a. marə č'al-ew [RC Opi [DP
$$pro_i$$
 / PG(PR) ə / zə-š](ERG) here boy-ADV 3SG/WH.PR-brother t_i (IO) velosiped Ø- qə- ze- r- jə- tə -ʁe] -r bicycle 3ABS- DIR- WH.IO- DAT- 3SG.ERG- give -PST -ABS

'Here is the boy_i to whom his_{i/j} brother gave a bicycle.'

b. Hypothesized structure without scrambling:

* [CP Op_i ... [DP(ERG)
$$pro_i$$
 ...] ... t_i (IO)]

c. Actual structure – no Weak Crossover configuration:

[RC Op_i [
$$_{vP}$$
 t_{i} (IO) [$_{vP}$ [$_{DP(ERG)}$ pro_{i} ...] ...]

Summary: A-scrambling of DP_{IO} to Spec, vP accounts for the absence of both anti-command and Weak Crossover violations between non-absolutive DPs.

6 Conclusion

- West Circassian scrambling can be diagnosed solely through morphological cues (whagreement marking), without any reference to word order.
- A-scrambling can feed parasitic gap licensing by obviating potential anti-c-command violations.

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Appendices

A Additional evidence for parasitic gap analysis

A.1 Parasitic gaps cannot be embedded in an additional island

Kayne (1983); Chomsky (1986); Nissenbaum (2000); Hornstein (2001); Kennedy (2003); Nunes (2004), *a.o.*: parasitic gap dependency cannot cross more than one island boundary.

(29) Who did John visit _

non-island: ✓ [without claiming [that he knew _]]

adjunct island: ?? [after offending me [by not introducing me to _]]

In West Circassian:

[ADJUNCT [COMP $pro_i / ?_PG(IO)$ (30)a. marə [RC psylpar-em! here woman-ADV sə- \emptyset / ?zde- $g^w \ni \hat{s} \ni \hat{r} = -m$ sə-pə\ə-fe] 1SG.ABS-3SG/WH.IO-COM-speak -MOD -OBL 1SG.ABS-attempt-LIM zə-g^were qə- **z**fə- tie- wa -se] -r $t_{\rm i}({\rm IO})$ one-INDEF 3ABS- DIR- WH.IO- BEN- LOC- hit -PST -ABS

'Here is the woman whom someone called [while I was trying [to speak with her]]'

[RC \$wəz-ewi [ADJUNCT [ADJUNCT proi / ??_PG(IO) b. marə here woman-ADV Ø / ??zsəg^wəš'ə? -ew] š'e- sə -fe] 1SG.ABS-3SG/??WH.IO-COM-speak -ADV 1SG.ABS- LOC- sit -LIM zə-g^were $t_{\rm i}({\rm IO})$ qə- **z**fə- tie- wa -ве] -r one-INDEF 3ABS- DIR- WH.IO- BEN- LOC- hit -PST -ABS

'Here is the woman whom someone called [while I was sitting [talking to her]]'

A.2 Parasitic gaps cannot be licensed by a PP wh-trace

Cinque (1990); Postal (1993): parasitic gaps cannot be licensed by a PP-trace.

(31) a. This is a topic; you should think about t_i [before talking about p_G].

b. * This is a topic about which, you should think t_i [before talking $__{PG}$].

PPs are cross-referenced on the predicate via applicative (LOC) and can be *pro*:

[_{CP} pŝaŝe-r $[bb \ Q-i9-R_m]$ busking a buskina-dež' li girl-ABS 3SG.PR-POSS-neighbor-PL-OBL 3PL.PP-at Ø**š'-** e- čəje -fe] se $pro_{i}(LOC)$ 3ABS-3SG.IO-LOC-PRS-sleep-LIM Ø**š'-** ežeg^w SƏ-1SG.ABS-3SG.IO-LOC-PRS-play

'While the girl sleeps at her neighbors', I play there.'

Relativization of postpositional phrases:

[bb t-j9-R_m9ueR_m9-xe-m a-dež'] $[_{RC} Op_i]$ arə $t_{\rm iLOC}$ 1SG.PP-POSS-neighbor-PL-OBL 3PL.PP-at PRED še- žeg^wə -re -r CP ma pŝaŝe-r 1SG.ABS- WH.IO- LOC- play -PRS -ABS this girl-ABS Ø / *zəš'čəje -fe]] $pro_i / *_{PG}(LOC)$ e-3ABS-3SG/*WH.IO-LOC-PRS-sleep-LIM

'At our neighbors' is where I play while this girl sleeps there.'

Contrast with a locative DP:

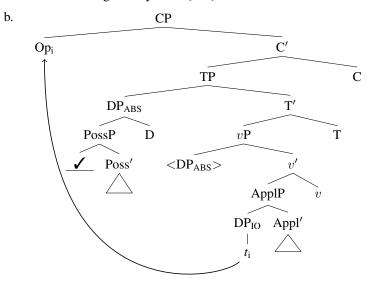
(34) $\begin{bmatrix} \text{RC Op_i } \lambda \text{epqp-r} & [\text{CP } _\text{PG}(\text{LOC}) & \emptyset \text{-} & \mathbf{zp-} & \S'\text{p-} & \text{rehatp-re--w} \end{bmatrix}$ tribe-ABS 3ABS- **WH.IO**- LOC- settle -PST -ADV $t_i(\text{LOC}) & \emptyset \text{-} & \mathbf{zp-} & \S'\text{p-} & \text{ber}^w \text{a} & -\text{re} \end{bmatrix}$ -r a wəne-çək w -p-xe-r 3ABS- **WH.IO**- LOC- reproduce -PST -ABS that house-small-PL-ABS arp PRED

'Those small houses are where the tribe multiplied, having settled there.' (Adyge Mak', 2017.07.05)

B Non-absolutive arguments can license parasitic gaps within the absolutive DP

B.1 Unergative verb with applied object (ABS-IO)

Applied object trace can license PG within absolutive external argument.



B.2 Transitive (ERG-ABS) verb

Ergative trace can license PG within absolutive theme.

(36) a. marə četəw-ew [RC Op_i [DP pro_i / PG PR)
here cat-ADV

Ø / z-jə-šxən](ABS) t_i (ERG) Ø- zə- mə- šxə-re] -r
3SG/WH.PR-POSS-food 3ABS- WH.ERG- NEG- eat -PRS -ABS
'Here is the cat who_i doesn't eat its_i food.'

