Unexpected consequences of polysynthesis Deficient probes, dynamic phases and the role of C

Ksenia Ershova (kershova@stanford.edu)

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1 The role of C in polysynthesis

West Circassian (or Adyghe; Northwest Caucasian):

- polysynthetic, with multiple verbal ϕ -probes and high degree of synthesis
- syntactically ergative: the absolutive argument moves to c-command the ergative agent (Ershova 2019, 2021a, to appear b)

Main claim:

Polysynthetic ϕ -probes agree with the highest head in the verbal extended projection – C⁰.

Explains two seemingly unrelated puzzles:

1. ϕ -probe deficiency in nominalizations which lack C⁰ (Ershova 2021b)

 $\Rightarrow \phi$ -probes are licensed via agreement with C⁰

2. variable islandhood of DPs at phase edges (*v*P and ApplP) (Ershova to appear a)

 \Rightarrow agreement with C 'unlocks' phases for subextraction

Puzzle #1: deficient probes in nominalizations

- nominalizations include structure up to TP
- but ϕ -agreement is possible only with ϕ -deficient anaphors

 \Rightarrow full ϕ -agreement is licensed by C⁰.

Puzzle #2: variable DP islandhood

- ergative and applied argument DPs are islands with clausebound wh-movement
 - (1) WH $C_{[WH]}$ [DP t_{POSS}]ERG/IO ...

- but not with successive-cyclic wh-movement across a CP boundary
 - (2) \checkmark WH C_[WH] ... [CP t_{POSS} C [DP t_{POSS}]ERG/IO ...

Phase edges (Spec, ν P and Spec,ApplP) are opaque for subextraction, unless C⁰ has independently agreed with ν^0 and Appl⁰.

• C agrees with v^0 and Appl⁰ before successive cyclic edge feature

 \checkmark subextraction from vP and ApplP in embedded CP

• C agrees with v^0 and Appl⁰ *after* matrix wh-feature

 \mathbf{X} subextraction from $v\mathbf{P}$ and ApplP in matrix CP

Roadmap:

- 2 Background on West Circassian clause structure
- 3 The analysis: Agreement with C in the verbal extended projection
- **4** Case study #1: Deficient probes in nominalizations
- **5** Case study #2: Variable islandhood and dynamic phasehood
- 6 Conclusion and implications

2 Background on West Circassian clause structure

- polysynthesis (Kumakhov 1964; Kumakhov & Vamling 2009; Testelets 2009; Korotkova & Lander 2010; Lander & Letuchiy 2010; Lander 2017; Lander & Testelets 2017, *inter alia*):
 - (3) **sə-** qə- **p- f- a- r- jə-** \mathbb{B} **b** $\lambda \mathbb{B}^{W}$ ə - \mathbb{B} 1SG.ABS- DIR- 2SG.IO- BEN- 3PL.IO- DAT- 3SG.ERG- CAUS- see -PST 'He showed me to them for your sake.' (Korotkova & Lander 2010:301)
- ergativity in verbal indexing

(4) Absolutive- Applied object- Applicative- Ergative-

- possessors are cross-referenced on the noun:
 - (5)s-šəpχ^wəxer(6)t-jə-κ^wəneκ^wəxem1SG.PR-sister.PL.ABS1PL.PR-POSS-neighbor.PL.OBL'my sisters''our neighbors'

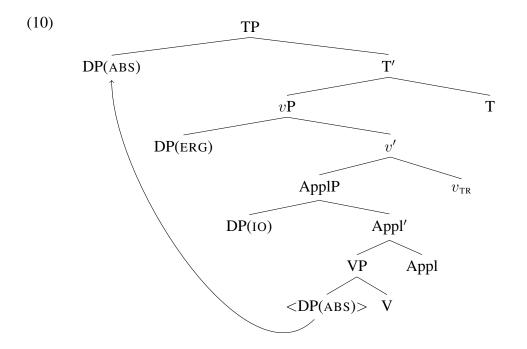
- ergativity in case marking
 - absolutive -r:subject of intransitive verb (7a)
theme of transitive verb (7b)oblique -m:agent of transitive verb (7b)
applied objects (7c)
possessors (7d)
complements of postpositions (7e)
 - (7) a. mə pŝaŝe-r(ABS) jane paje Ø-qaŝ^we this girl-ABS 3PL.PR+mother for 3ABS-dance
 'The girl is dancing for her mother.'
 - b. sjəpŝaŝexe-m(ERG) nəsyapexe-r(ABS) Ø-a-fepaßex
 1SG.PR.girl.PL-OBL doll.PL-ABS 3ABS-3PL.ERG-dress.PST.PL
 'My daughters dressed the dolls.'
 - c. mə č'ale-r(ABS) bere jə?ahəlxe-m(IO) telefonč'e this boy-ABS much 3SG.PR.relative.PL-OBL telephone.INS Ø-a-fe-tjewe 3ABS-3PL.IO-BEN-hit.PRES
 'This boy calls (lit. rings for) his relatives on the telephone a lot.'
 - d. pŝaŝe-m Ø-jə-pŝeŝeuwe. mə ŝwəzə-m pajegirl-OBL 3SG.PR-POSS-female.friendthis woman-OBL for'the girl's friend''for this woman'
- Indefinite nouns, possessed nouns in the singular, proper names and personal pronouns are generally unmarked for case (Arkadiev et al. 2009:51-52; Arkadiev & Testelets 2019).
- High absolutive syntax, based on **anaphor binding** and parasitic gaps

(Ershova 2019, 2021a, to appear b)

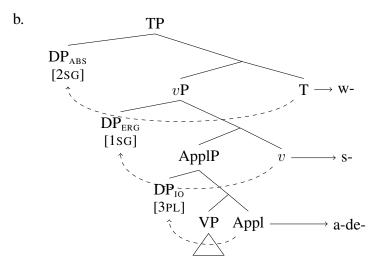
Reciprocals:

- covert anaphor triggers specialized agreement on the verb without changing valency or case frame
 - (...) a-xe-**me** zanč'-ew Ø zewąże (8) direct-ADV all (rec) that-PL-PL.OBL ?wete -ž'ə -š'tə -ке Øzera-3ABS- REC.IO- DAT- 3PL.ERG- tell -RE -IPF -PST 'They certainly told the whole truth to each other.' (Rogava & Keraševa 1966:274)

- absolutive theme binds ergative agent, and not vice versa
 - (9) a. ŝ^wə $уев_{M}$ э -в t-2PL.ABS-1PL.ERG- see -PST 'We saw you.' b. tə $уе R_m$ э - R c. * **ze(re)** $уев_{m}$ э -в zeret-**REC.ABS-** 1PL.ERG- see 1PL.ABS- REC.ERG- see -PST -PST 'We saw each other.' Intended: 'We saw each other.'

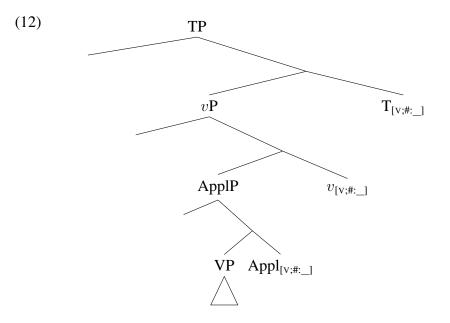


- Spec-head agreement with multiple ϕ -probes:
 - (11) a. w- a-de- s- š'ar 2SG.ABS- 3PL.IO-COM- 1SG.ERG- bring.PST 'I brought you with them.'



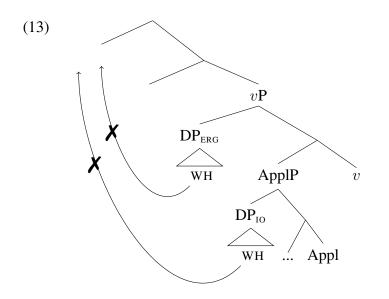
3 The proposal

• T⁰, v⁰ and Appl⁰ are merged as deficient probes specified for number (#) and a verbal category feature [V] (in addition to more specific category features).



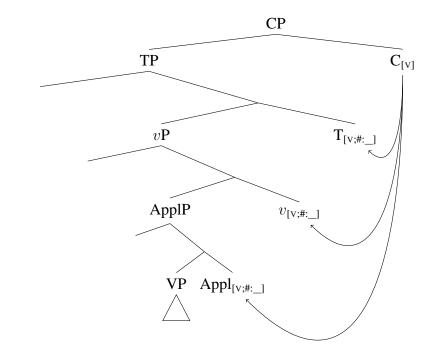
• *vP* and ApplP are phases (McGinnis 2000, 2001; Legate 2003, a.o.), and phase edges are opaque for subextraction (Chomsky 2000, 2001).

 \Rightarrow ERG and IO DPs are islands



• C^0 agrees with T^0 , v^0 and Appl⁰ in [V] by Multiple Agree

(Hiraiwa 2001, 2005; Zeijlstra 2004; Nevins 2007, 2011, a.o.)



Consequences:

(14)

- Agreement with C⁰ licenses T⁰, v^0 and Appl⁰ as full ϕ -probes specified for number *and* person (π).
- Agreement with C⁰ makes phases transparent for subextraction per the Principle of Minimal Compliance (Richards 1998; Rackowski & Richards 2005):
 - (15) Once a probe P is related by Agree with a goal G, P can ignore G for the rest of the derivation.

Predictions:

1. Without C⁰, ϕ -probes are deficient, i.e. no agreement or licensing of nominals fully specified for ϕ -features (cf. Kalin 2019).

confirmed by nominalizations

2. Nominals which do not need full ϕ -licensing may be licensed (and agreed with) without C⁰.

confirmed by $\phi\text{-deficient}$ anaphors and structurally deficient NPs

3. If C^0 agrees with v^0 and Appl⁰ <u>before</u> probing with a movement feature, subextraction from vP and ApplP is possible.

confirmed by successive-cyclic wh-movement triggered by an edge feature

4. If C^0 agrees with v^0 and Appl⁰ <u>after</u> probing with a movement feature, subextraction from vP and ApplP is ungrammatical.

confirmed by local wh-movement triggered by a contenful wh-feature

Roadmap:

- 4 Case study #1: Deficient probes in nominalizations
- 5 Case study #2: Phase unlocking and variable islandhood
- 6 Conclusion and implications

4 Case study **#1:** Deficient probes in nominalizations

Based on Ershova (2021b).

4.1 Argument licensing and ϕ -agreement in nominalizations

- Non-derived nominals: modifiers and complements incorporated, ϕ -agreement with possessor
 - (16) ja- xebze- bzəpxe
 3PL.POSS- rule- example
 'their legal example' (Ershova 2020:431)
- Nominalizations: no verbal φ-agreement or licensing, arguments licensed as possessor or incorporated

(17)	a.	[adre-me(ERG) laße-r(ABS) Ø-zer-a-thač'ə-re-mother-PL.OBL dish-ABS3ABS-FCT-3PL.ERG-wash-PRES-Os-Ø-je-pλə-nə-rsəg ^w rjehəlsG.ABS-3SG.IO-DAT-watch-MOD-ABS I like	BL
		'I like to watch other people wash dishes.'	finite clause
	b.	girl-OBL dish-PL-ABS wash-NML -ABS I like	
		Intended: 'I like the girl's washing of dishes.'	nominalization
	c.	pŝaŝe- m Ø- jә- leвe - thač'ә -n sәg ^w rjehә girl- OBL 3SG.PR- POSS- dish - wash -NML I like	
		'I like the girl's dish-washing.'	nominalization

(Ershova 2020:450-452)

- Structure up to TP
 - \checkmark causative and applicative morphology
 - (18) zawe-m Ø- jə- xebze- **Be-** k^wedə -č'e
 war-OBL 3SG.PR- POSS- rule- CAUS- perish -NML
 'the war's destruction (lit. causing to perish) of traditions' (Ershova 2020:449)

- (19) ja- haź^wə- de- šeg^wə -č'e
 3PL.POSS- puppy- COM- play -NML
 'their manner of playing with puppies'
- ✓ temporal adverbs
 - (20) [mafe-qes wjə- t^wəčan- k^we -n] sjezeš'əʁ day-every 2sg.Poss- store- go -NML I'm tired 'I'm tired of your going to the store every day.'
 - (21) mafe-qes *(Ø-k^we-re) pjerjedač
 day-each 3ABS-go-PRES broadcast
 'every day program' (incompatible with non-derived nominals)
- \checkmark binding by high absolutive

 \Rightarrow absolutive moves to Spec,TP

- (22) a. mə çəf-xe-r Ø- qe- zere- ве- ŝ^wež'əx this person-PL-ABS ABS- DIR- REC.ERG- CAUS- dance.PL
 'These people are making each other dance.' finite clause
 b. ja- qe- zere- ве- ŝ^wa -č'e
 - 3PL.POSS- DIR- REC.ERG- CAUS- dance -NML'their manner of making each other dance'nominalization

******Position of REC in nominalization corresponds to ERG position in finite form.

Summary: no verbal ϕ -agreement or licensing, but structure up to TP

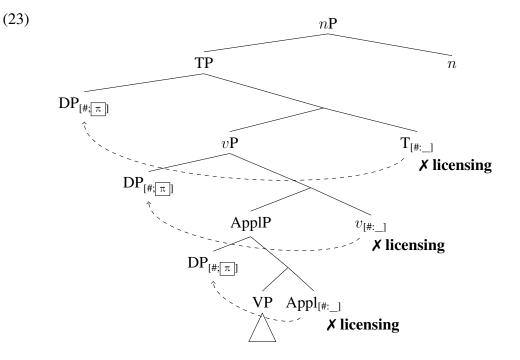
 $\Rightarrow \phi$ -probes are present in the syntax, but cannot agree or license

4.2 Deficient probes without C

The proposal:

- ϕ -probes are deficient without C⁰ only specified for [#]
- nominals require agreement in full ϕ -features to be licensed

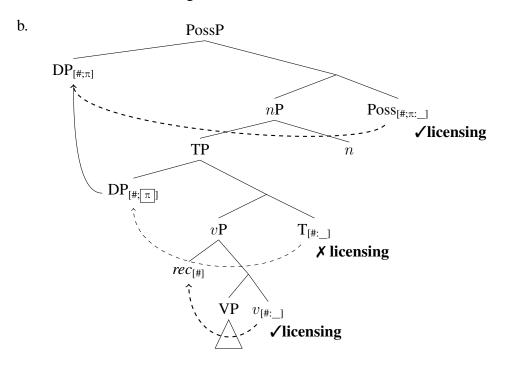
 \Rightarrow no ϕ -agreement or licensing of arguments with full set of ϕ -features



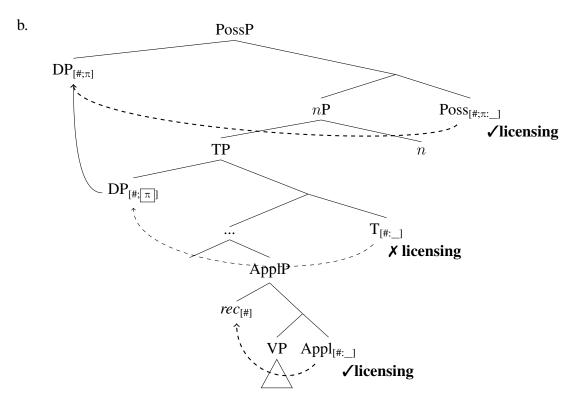
Prediction: ϕ -deficient nominals may be licensed in nominalizations

- ✓ reflexives and reciprocals
 - anaphors are ϕ -deficient only specified for [#]

- may be licensed and agreed with in nominalizations:
- (24) Ergative reciprocal agreement with v^0
 - a. ja- qe- **zere-** $Be- \hat{s}^{W}a \check{c}$ 'e 3PL.POSS- DIR- **REC.ERG-** CAUS- dance -NML 'their manner of making each other dance'



- (25) Applicative reciprocal agreement with $Appl^0$
 - a. ja- **ze- fe-** g^wə?ež'ə-č'e səg^w rjehə 3PL.POSS- **REC.IO- BEN-** endeavor -NML I like 'I like their manner of working hard for each other.'



✓ structurally deficient NPs

- (26) mə pŝeŝeĉəje-m Ø- jə- ŝwəhaftən-š'ə- gwəwə-č'e sjeweš'xə this girl-OBL 3SG.PR- POSS- gift- LOC- hope -NML makes me laugh 'This girl's anticipating of presents makes me laugh.'
- (27) mə sabəj-xe-m ja- ha2^wə- de- šeg^wə -č'e sjəč'as this child-PL-OBL 3PL.POSS- puppy- COM- play -NML I like 'I like these children's manner of playing with puppies.'

Ershova (2020): NPs are pseudo noun incorporated – remain in situ and are pronounced as one word with nominalized verb.

Pseudo incorporated NPs do not need licensing via agreement, because they are not specified for number or person \Rightarrow generic, indefinite interpretation.

4.3 Summary: deficient probes

- ϕ -probes (v^0 , Appl⁰ and T⁰) are deficient only specified for [#]
- full ϕ -agreement and licensing is licensed by agreement with C^0
- without C^0 , only ϕ -deficient nominals may be successfully licensed:

- anaphoric pronouns
- structurally deficient NPs
- Agreement with C⁰ confirmed by variable islandhood of DPs at phase edges.

5 Case study #2: Phase unlocking and variable islandhood

Based on Ershova (to appear a).

5.1 Background: wh-movement in relative clauses

Per Lander (2009a,b, 2012); Caponigro & Polinsky (2011); Ershova (2021a) Relativization is the only type of wh-movement.

(28) General structure of relative clauses (Caponigro & Polinsky 2011):

 $\begin{bmatrix} CP & Op_i & C[WH] & [TP & \dots & t_i & \dots \end{bmatrix} \end{bmatrix}$

- Movement of covert wh-operator (Op) diagnosed by (i) islandhood sensitivity and (ii) the ability of the moved operator to license parasitic gaps (Appendix A).
- φ-agreement referring to the relativized participant replaced by wh-agreement (Caponigro & Polinsky 2011; see also O'Herin 2002; Baier 2018 on Abaza):

 $z(\mathbf{a})$ - = ergative agents, applied objects, and possessors

Ø- = absolutive arguments

Ergative agent:

- (29) a. mə č'ale-mi ə-š velosjəped Ø- Ø- r- jә- tә -в
 this boy-OBL 3SG.PR-brother bicycle 3ABS- 3SG.IO- DAT- 3SG.ERG- give -PST
 'This boy gave a bicycle to his brother.'
 - b. marə č, 'al-ew [$_{RC} Op_i t_i(ERG)$ ə-š velosjəped here boy-ADV 3SG.PR-brother bicycle \emptyset - \emptyset - je- zə- tə - κ e] -r 3ABS- 3SG.IO- DAT- WH.ERG- give -PST -ABS 'Here is the boy that gave a bicycle to his brother.'

Possessor:

- (30) marə \hat{s}^{w} əz-ew [_{RC} Op_i [_{DP} t_i (PR) **z**-jə-pŝaŝe] dax-ew here woman-ADV **WH.PR**-POSS-girl good-ADV \emptyset -qa- \hat{s}^{w} e-re] -r 3ABS-DIR-dance-PRES -ABS 'Here is the woman whose daughter dances well.'
 - 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).

Nominal head to the right of the relative clause:

(31) $\begin{bmatrix} RC & Op_i \\ t_i(ERG) \\ 0 \\ -j \\ -\hat{S}han \\ B^w \\ -\hat{S}han \\ 0 \\ - xe \\ -xe \\ -xe$

Headless relative clause:

 (32) [_{RC} Op_i asλan t_i(IO) Ø- zə- fae -zepətə] -m ə-š-xe-r Aslan 3ABS- WH.IO- want -HABIT -OBL 3SG.PR-brother-PL-ABS fajep don't want
 '[What Aslan always wants] his brothers don't want.'

5.2 Phase edges are islands

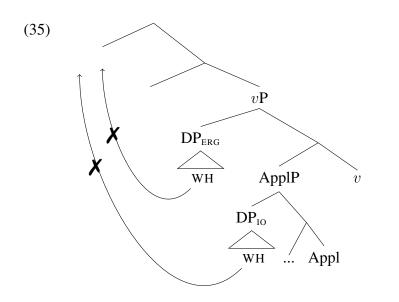
Generalization: The ergative and applied argument DPs are islands for subextraction because they appear at phase edges: Spec, *v*P and Spec, ApplP.

No possessor extraction from ergative DP:

(33) a. [mə bzəλfəʁe-m(PR) Ø-jə-čiale](ERG) dax-ew wered(ABS) this woman-OBL 3SG.PR-POSS-boy beautiful-ADV song Ø-q-j-e-?we 3ABS-DIR-3SG.ERG-PRES-sing 'This woman's son sings well.'

b. * xet-a [Op_i [$t_i(PR)$ **z**-jə-č'ale](ERG) dax-ew wered(ABS) who-Q **WH.PR-**POSS-boy beautiful-ADV song \emptyset -q-ə-?we-re] -r 3ABS-DIR-3SG.ERG-sing-PRES -ABS Intended: 'Whose son sings well?' No possessor extraction from applied object:

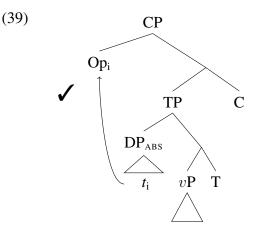
- (34) a. [mwe ŝ^w әzә-m(PR) ә-q^we](IO) č'elejeваžе-r(ABS) Ø-Ø-je-ceca-в this woman-OBL WH.PR-son teacher-ABS 3ABS-3SG.IO-DAT-scold-PST
 'The teacher scolded this woman's son.'
 - b. * mwarə [$_{RC}$ ŝ^wəz-ew_i [$t_i(PR)$ **zə-q**^we](IO) č'elejeʁaže-r(ABS) here woman-ADV WH.PR-son teacher-ABS \emptyset - \emptyset -je-ceca-Be] -r 3ABS-3SG.IO-DAT-scold-PST -ABS Intended: 'Here is the woman whose son the teacher scolded.'



DPs not at phase edges are not islands:

Subextraction from absolutive DP:

 $[_{DP} t_i(PR) \mathbf{z}_{-j} \mathbf{\bar{z}}_{-p} \mathbf{\hat{s}}_{a} \mathbf{\hat{s}}_{e}]$ (36) marə ŝ^w∂z-ew $[_{\rm RC} Op_{\rm i}]$ dax-ew WH.PR-POSS-girl good-ADV here woman-ADV Ø-ga-ŝ^we-re] -r **3ABS-DIR-dance-PRES -ABS** 'Here is the woman whose daughter dances well.' (possessor of external argument) (37) mwarə $\begin{bmatrix} RC \\ \hat{s}^w \partial z - ew_i \end{bmatrix}$ $[_{DP} t_i(PR) \mathbf{z} - \mathbf{q}^w e](ABS)$ hapse-m here woman-ADV WH.PR-son prison-OBL Ø-Ø-č-а-за-ве] -r 3ABS-3IO.SG-LOC-3PL.ERG-throw-PST -ABS 'Here is the woman whose son they threw in jail.' (possessor of internal argument) (38) marə [_{RC} pŝaŝ-ew_i [_{DP} [_{DP} t_i(PR) zə-šəpχ^w](PR) Ø-jə-pŝeŝe^w](ABS) here girl-ADV WH.PR-sister 3SG.PR-POSS-girlfriend dexe-ded-ew Ø-qa-ŝ^we-re] -r beautiful-very-ADV 3ABS-DIR-dance-PRES -ABS
'Here is the girl whose sister's friend dances very beautifully.' (possessor of possessor)



Summary: DPs at phase edges are islands for subextraction.

5.3 Agreement with C unlocks phases

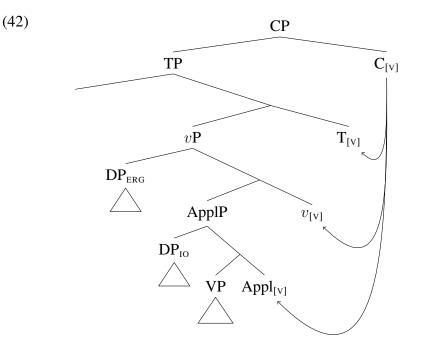
Per Richards's (1998) Principle of Minimal Compliance:

If the movement-triggering feature on C^0 probes *after* C^0 agrees with T^0 , v^0 and Appl⁰, vP and ApplP (and their edges) become transparent for subextraction.

This is confirmed by cross-clausal wh-movement.

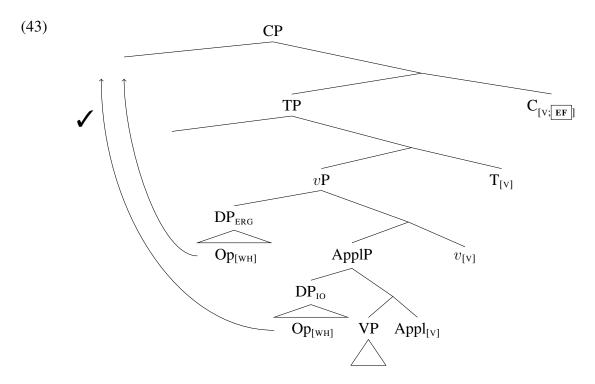
- Cross-clausal wh-movement is successive-cyclic, passing through the edge of embedded CP.
 - (40) xet-a $[_{RC} Op_i$ we $[_{CP} t_i(IO)$ wə-z-š'ə-t χ^w ə-n-ew] who-Q you 2SG.ABS-WH.IO-LOC-praise-MOD-ADV Ø-je-b- κ e-ž'a- κ e] -r 3ABS-DAT-2SG.ERG-CAUS-begin-PST -ABS 'Who did you begin to praise?'
 - (41) $\begin{bmatrix} CP & Op_i C_{[WH]} & \dots & \begin{bmatrix} CP & t_i C & \dots & t_i \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\$
- Successive-cyclic wh-movement is triggered by a last resort edge feature (EF) on the phase head (embedded C⁰).
- [EF] is inserted
 - (i) if there is an unchecked movement feature in the complement of a phase head
 - (ii) after all other features on the phase head are checked.

- Embedded C⁰
 - (i) agrees with v^0 and Appl⁰ in [V],



(ii) probes with [EF] *after* [V].

 \Rightarrow vP and ApplP are 'unlocked' for probing: C⁰ can probe into Spec,vP (ergative DP) and Spec,ApplP (applied object DP).



After moving to embedded Spec, CP, wh-element is accessible for movement to higher clause.

Ergative and applied object DPs are not islands for cross-clausal subextraction.

Cross-clausal subextraction from ergative DP:

(44) xet-a $[_{RC} Op_i \ [_{CP} \ [_{DP} t_i(PR) \ z-j \Rightarrow sab \Rightarrow j-xe-m](ERG) wered(ABS) who-Q WH.PR-POSS-child-PL-OBL song <math>\emptyset$ -q-a-?^we-n-ew] \emptyset -w \Rightarrow -m \Rightarrow -de-re] -r 3ABS-DIR-3PL.ERG-say-MOD-ADV 3ABS-2SG.ERG-NEG-consent-PRES -ABS lit. 'Whose did you not consent for children to sing?'

Cross-clausal subextraction from applicative DP:

(45) marə [$_{RC}$ \hat{s}^{W} əz-e $_{wi}$ [$_{CP}$ [$_{DP}$ t_i (PR) **z**-jə-pŝaŝe](IO) here woman-ADV **WH.PR-**POSS-girl sə-Ø-fə-tje-we-n-ew] Ø-je-z- $_{ve}$ -ž'a- $_{ve}$] -r 1SG.ABS-3SG.IO-BEN-LOC-hit-MOD-ADV 3ABS-DAT-3SG.ERG-CAUS-begin-PST -ABS lit. 'Here is the woman whose I began to call _ daughter.'

Contrast with clausebound subextraction: contentful [WH] feature on matrix C probes *before* [V] \Rightarrow *v*P and ApplP are not unlocked for subextraction.

5.4 Summary: variable islandhood and phase unlocking

In addition to licensing ϕ -agreement, agreement between C⁰ and lower verbal heads interacts with islandhood constraints:

- If C⁰ agrees with lower phase heads *before* probing with a movement feature, the lower phases are transparent for subextraction.
- If C⁰ agrees with lower phase heads *after* the movement feature, the lower phases are opaque for subextraction, leading to islandhood of DPs at phase edges.

6 Conclusion

Polysynthetic ϕ -probes are deficient and licensed through agreement with C⁰.

Correctly predicts:

- 1. deficient ϕ -probes in nominalizations without C^0
- dynamic phasehood + variable islandhood of phase edges due to interaction between movement and agreement features: agreement with C⁰ unlocks vP and ApplP for subextraction
- T^0 , v^0 and Appl⁰ must be licensed by C^0 to license nominal arguments.

- Indirect connection between licensor and licensee.
- Similar to C-to-T feature inheritance (Chomsky 2000, 2001), but long-distance and applicable to all φ-probes in verbal extended projection.
- Potential approach for indirect licensing cross-linguistically:
 - genitive of negation in Slavic (Bailyn 2004)
 - ergative case in Hindi (Legate 2008)
 - augmentless nominals in Zulu (Halpert 2015)
 - dative case in Georgian (Ershova 2016)
 - PP selection in Semitic (Hewett to appear)
- Absence of licensing/agreement with ϕ -probe \Rightarrow absence of ϕ -probe in the structure.

Variable islandhood of DPs at phase edges confirms agreement between C^0 and lower verbal heads, including v^0 and Appl⁰.

Agreement unlocks phases for extraction \Rightarrow phases are opaque due to intervention for Agree (Rackowski & Richards 2005; Van Urk & Richards 2015; Halpert 2019), not transfer to the interfaces (cf. Chomsky 2000, 2001, 2008; Richards 2011; Bošković 2016, a.o.).

Two disparate syntactic puzzles:

- deficient probes in nominalizations
- variable islandhood of argument DPs

... due to one parameter: agreement between C^0 and lower verbal heads.

 \Rightarrow Research projects with a long-term commitment to a single language have the potential for nontrivial contributions to linguistic theory.

Acknowledgements

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Appendices

A Diagnosing covert wh-movement

Wh-movement is island sensitive:

- (46) a. $\begin{bmatrix} RC & Op_i & w \ni ne(ABS) & t_i(ERG) & \emptyset & q \ni & s & fe & z \ni & \hat{s}e & -Be \end{bmatrix}$ house 3ABS- DIR- 1SG.IO- BEN- WH.ERG- do -PST blaße-r sa-pe \emptyset -q- \emptyset -j \ni -fa-ß relative-ABS 1SG.PP-front 3ABS-DIR-3SG.IO-LOC-fall-PST 'I met the relative who built a house for me.'
 - b. * səd-a $[_{RC} Op_i \ [_{RC} Op_i \ t_i(ABS) \ t_i(ERG)]$ Øqə- sfe-ZƏŝe what-Q 3ABS- DIR- 1SG.IO- BEN- WH.ERG- do -ве] plase-ц sa-pe Ø-q-Ø-jә-fa-ве] -r -PST relative-ABS 1SG.PP-front 3ABS-DIR-3SG.IO-LOC-fall-PST -ABS Intended: 'What did I meet the relative who built for me?' (Lander 2012:286-287)

Wh-movement can license parasitic gaps (Ershova 2021a).

- ergative trace licenses a parasitic gap in the adjunct clause:
 - (47) marə [_{RC} č'al-ew_i $t_i(ERG)$ varenje šxə -re Ø-ZƏ--r boy-ADV here jam **3ABS- WH.ERG-** eat -PRES -ABS $[_{CP} pro_i(ERG) \quad s^w \ni p \ni -r$ ə/zə-Ømə- wəx -ze]] soup-ABS 3ABS- 3SG/WH.ERG- NEG- finish -CNV 'Here is the boy who is eating jam without finishing the soup.' (Ershova 2021a)
- absolutive trace licenses a parasitic gap in the adjunct clause:
 - (48) marə [$_{RC}$ pŝaŝ-ew_i [$_{CP}$ [pro_i / $_{PG}$ ə / zə-ŝəp χ^w] Ø-me-čəje-fe] here girl-ADV 3SG/WH.PR-sister 3ABS-PRES-sleep-LIM t_i (ABS) nəs χ ape-m Ø- Ø- rə- $\check{\chi}$ eg^wə-re] -r doll-OBL WH.ABS- 3SG.IO- INS- play -PRES -ABS 'Here is the girl who plays with the doll while her sister sleeps.' (Ershova 2021a)

References

- Arkadiev, P. M., Y. A. Lander, A. B. Letuchiy, N. R. Sumbatova & Y. G. Testelets. 2009. Vvedenije. Osnovnyje svedenija ob adygejskom jazyke [Introduction: Basic information on Adyghe]. In *Aspekty polisintetizma: Očerki po grammatike adygejskogo jazyka*, ed. Y. G. Testelets, 17–120. RGGU.
- Arkadiev, P. M. & Y. G. Testelets. 2019. Differential nominal marking in Circassian. *Studies in Language* 43 (3): 715–751.

Baier, N. 2018. Anti-agreement. PhD diss, UC Berkeley.

- Bailyn, J. F. 2004. The case of Q. In Proceedings of the Annual Workshop on Formal Approaches to Slavic Linguistics 12, 1–36.
- Bošković, Ž. 2016. What is sent to spell-out is phases, not phasal complements. Linguistica 56 (1): 25-66.
- Caponigro, I. & M. Polinsky. 2011. Relative embeddings: A Circassian puzzle for the syntax/semantics interface. *NLLT* 29(1): 71–122.
- Chomsky, N. 2000. Minimalist inquiries: the framework. In *Step by step: Essays on minimalist syntax in honor of Howard Lasnik*, eds. R. Martin, D. Michaels & J. Uriagereka, 89–155. MIT Press.
- Chomsky, N. 2001. Derivation by phase. In Ken Hale: A life in language, ed. M. Kenstowicz, 1-52. MIT Press.
- Chomsky, N. 2008. On phases. In *Foundational issues in linguistic theory*, eds. R. Freidin, C. P. Otero & M. L. Zubizarreta, 133–166. MIT Press.
- Ershova, K. 2016. Dative blocking in Georgian.
- Ershova, K. 2019. Syntactic ergativity in West Circassian. PhD diss, University of Chicago.
- Ershova, K. 2020. Two paths to polysynthesis: Evidence from West Circassian nominalizations. *Natural Language and Lingustic Theory* 38: 425–475. doi:10.1007/s11049-019-09455-w.
- Ershova, K. 2021a. Diagnosing clause structure in a polysynthetic language: Wh-agreement and parasitic gaps in West Circassian. *Linguistic Inquiry* 52 (1): 1–38.
- Ershova, K. 2021b. Multiple feature inheritance makes polysynthesis: Evidence from West Circassian nominalizations. http://web.mit.edu/kershova/www/Ershova_LSA2021_handout.pdf.
- Ershova, K. to appear a. Phasehood as defective intervention: Possessor extraction and selective DP islandhood in west circassian. *Syntax*. https://ling.auf.net/lingbuzz/005469.
- Ershova, K. to appear b. Syntactic ergativity and the theory of subjecthood: Evidence from anaphor binding in West Circassian. *Language*. https://ling.auf.net/lingbuzz/005168.
- Halpert, C. 2015. Argument licensing and agreement. Oxford University Press.
- Halpert, C. 2019. Raising, unphased. Natural Language and Linguistic Theory 37: 123–165.
- Hewett, M. to appear. Verbal templates can influence 1-selection in Semitic. Linguistic Inquiry.
- Hiraiwa, K. 2001. Multiple Agree and the Defective Intervention Constraint in Japanese. In *The proceedings* of HUMIT 2000, eds. O. Matushansky, A. Costa, J. Martin-Gonzalez, L. Nathan & A. Szczegielniak, 67–80. MITWPL.
- Hiraiwa, K. 2005. Dimensions of symmetry in syntax: agreement and clausal architecture. PhD diss, MIT.
- Kalin, L. 2019. Nominal licensing is driven by valued (phi-)features. In *Nordlyd*, eds. G. Ramchand & P. Svenonius. Vol. 43 of *GLOW short report proceedings for GLOW 40*, 15–29. University of Tromsø.
- Korotkova, N. & Y. Lander. 2010. Deriving affix ordering in polysynthesis: Evidence from Adyghe. *Morphology* 20: 299–319.
- Kratzer, A. 2009. Making a pronoun: Fake indexicals as windows into the properties of pronouns. *Linguistic Inquiry* 40 (2): 187–237.
- Kumakhov, M. A. 1964. Morfologija adygskix jazykov: sinxronno-diaxronnaja xarakteristika [Morphology of Circassian languages: synchronic and diachronic description]. Kabardino-Balkarskoe knižnoe izdatelstvo.
- Kumakhov, M. & K. Vamling. 2009. Circassian clause structure. Caucasus studies 1. School of International Migration and Ethnic Relations. Malmö University.
- Lander, Y. 2009a. Množestvennaja reljativizacija: podlinnaja i mnimaja [Multiple relativization: genuine and imaginary]. In *Aspekty polisintetizma: Očerki po grammatike adygejskogo jazyka*, ed. Y. G. Testelets, 612–653. RGGU.
- Lander, Y. 2009b. Subject properties of the Adyghe absolutive: Evidence from relatives. Ms..
- Lander, Y. 2012. Reljativizacija v polisintetičeskom jazyke: adygejskie otnositel'nye konstrukcii v

tipologičeskoj perspektive [Relativization in a polysynthetic language: Adyghe relative clauses in a typological perspective]. PhD diss, Russian State University for the Humanities.

- Lander, Y. 2017. Nominal complex in West Circassian: Between morphology and syntax. *Studies in Language* 41 (1): 76–98.
- Lander, Y. & A. Letuchiy. 2010. Kinds of recursion in Adyghe morphology. In *Recursion and Human Language*, ed. H. van der Hulst, 263–284. De Gruyter Mouton.
- Lander, Y. A. & Y. G. Testelets. 2017. Adyghe (Northwest Caucasian). In *The Oxford handbook of polysynthesis*, eds. M. Fortescue, M. Mithun & N. Evans, 948–970. Oxford University Press.
- Legate, J. A. 2003. Some interface properties of the phase. Linguistic Inquiry 34.3: 506-516.
- Legate, J. A. 2008. Morphological and abstract case. *Linguistic Inquiry* 39(1): 55–101. doi:10.1162/ling.2008.39.1.55.
- McGinnis, M. 2000. Phases and the syntax of applicatives. In *NELS 31*, eds. M.-J. Kim & U. Strauss, 333–349. GLSA.
- McGinnis, M. 2001. Variation in the phase structure of applicatives. *Linguistic Variation Yearbook* 1: 105–146.
- Nevins, A. 2007. The representation of third person and its consequences for person-case effects. *Natural Language & Linguistic Theory* 25 (2): 273–313.
- Nevins, A. 2011. Multiple agree with clitics: Person complementarity vs. omnivorous number. *Natural Language and Linguistic Theory* 29 (4): 939–971.
- O'Herin, B. 2002. Case and agreement in abaza. SIL International / Univ. of Texas at Arlington.
- Rackowski, A. & N. Richards. 2005. Phase edge and extraction: A Tagalog case study. *Linguistic Inquiry* 36 (4): 565–599.
- Reuland, E. 2011. Anaphora and language design. MIT Press.
- Richards, M. 2011. Deriving the edge: What's in a phase? Syntax 14: 74–95.
- Richards, N. 1998. The Principle of Minimal Compliance. Linguistic Inquiry 29: 599-629.
- Rogava, G. V. & Z. I. Keraševa. 1966. *Grammatika adygejskogo jazyka [The grammar of Adyghe]*. Krasnodarskoe knižnoe isdatelstvo.
- Sundaresan, S. 2020. Distinct featural classes of anaphor in an enriched person system. In Agree to agree: Agreement in the Minimalist Programme, eds. P. W. Smith, J. Mursell & K. Hartmann, 425–461. Language Science Press.
- Testelets, Y. G., ed. 2009. Aspekty polisintetizma: Očerki po grammatike adygejskogo jazyka [Aspects of polysynthesis: Sketches on the grammar of Adyghe]. RGGU.
- van Urk, C. & N. Richards. 2015. Two components of long-distance extraction: Successive cyclicity in Dinka. *Linguistic Inquiry* 46 (1): 113–155.
- Zeijlstra, H. 2004. Sentential negation and negative concord. LOT.