

## PROPOSAL

- Relative Clauses(RCs) in Georgian provide examples of **Williams Cycle** effects, as in *wh*-questions (Bondarenko 2024)
- The Size (Landing Site)** of a RC on the functional spine directly correlates to the ability or inability for extraction to clauses as a function of the size of the clause the head noun is extracted from.
- Parallel Derivation** (Meadows 2024) derives the effects observed in RCs when compared with *wh*-extraction and long-distance-scrambling data.

## INTRODUCTION

- Georgian has several strategies for forming RCs including *wh*-phrase headed RCs, *rom*-type RCs, and participial RCs (Foley 2013)

- (1) *me çavik̄itxe çigni ..*  
1.SG 1.SG.read.PST book  
'I read the book'
- a. *romeli-c rustavel-ma da-çera.*  
which-COMP Rustaveli-ERG wrote  
'... which Rustaveli wrote.'
- b. *rustavel-ma rom da-çera.*  
Rustaveli-ERG COMP PVB-write.NMLZ  
'... that Rustaveli wrote.'
- (2) *me çavik̄itxe rustavel-is*  
1.SG 1.SG.read.PST Rustaveli-GEN  
*da-çer-il-i çigni*  
PVB-write-PTCP-NOM book.NOM  
'I read the book that Rustaveli wrote.'

## SIZES AND LANDING SITES

- Georgian RCs are an example of a **Williams Cycle effect**: a claim that the bigger the clause movement exits, the higher the landing site it must target. (Williams 2003)
- Growing body of literature displays similar facts across languages and language families (Keine 2016, Müller 2013, Meadows 2024)
- One account of Williams cycle effects that Georgian data specifically provide support for is termed Generalized Ban on Improper Movement (GBOIM) (Meadows 2023, Williams 2003; 2011)

- (3) **DEF. GBOIM** (Meadows 2024)  
Movement to [Spec, XP] cannot proceed from [Spec, YP] or across YP, where Y is higher than X in the functional sequence.

## KEY DATA

- C-Relativization and *rom*-relativization are possible out of all complements<sup>a</sup>.
- (4) *me da-v-inaxe mankana. . . }*  
1.SG PVB-1.SG-saw car  
'I saw the car. . .'
- a. {✓*romeli-c* *mariam-ma* {✓*rom*} *ipikra rom šota-m iqida.*  
{which-COMP} Mariam-ERG {COMP} thought COMP Shota-ERG bought.  
'... which Mariam thought that Shota bought.'
- b. {✓*romeli-c* *mariam-s* {✓*rom*} *unda rom mezobel-ma iqidos*  
{which-COMP} Mariam-DAT {COMP} wants COMP neighbor-ERG buy.OPT.3SG  
'... which Mariam wants the neighbor to buy.'
- c. {✓*romlis šeğebva-c* *mariam-ma daiçqo*} / {✓*mariam-ma rom daiçqo šeğebva*}  
{which paint.NMLZ-COMP} Mariam-ERG started Mariam-ERG {COMP started paint.NMLZ}  
'... of which Mariam started painting.'
- However, Participle relatives may only be formed by most speakers out of masdar; participles cannot combine with CP or TP (*rom*-headed) complements.
- (5) a. *✗me vicnob mariam-is <ga-gonil> rom masçavlebel-i akebda <gagonil>*  
1SG know Mariam-GEN <PVB-hear.PTCP> COMP teacher-NOM praise.3SG.IMPF <PVB-hear.PTCP>  
*mosçavle-s*  
student.DAT  
Intended: 'I know the teacher mariam heard praising the student'
- b. ✓*me vicnob mariam-is keba <gagonil> mosçavle-s*  
1SG know Mariam-GEN praise.NMLZ PVB-hear.PTCP student.DAT  
'I know the teacher mariam heard to praise the student'

<sup>a</sup>Some speakers find *wh*-relatives without pied-piping impossible out of masdars

## THE SIZES OF THINGS

- In Georgian, verbs are restricted in their possible complements, suggesting they come in different sizes.
- (6) *Mariam-ma scada {✗rom çigni daçera / ✓rom çigni daeçera / ✓çign-is daçera}*  
Mariam-ERG tried COMP book write.AOR COMP book write.PLUP book-GEN write.NMLZ  
'Mariam tried {✗that she wrote a book / ✓that she might write a book / ✓writing a book }

RC type	High Adverbs	Tense	Matrix Case	Aspect	Negation	Projection
<i>wh</i> -rel	✓	✓	✓	✓	✓	~CP
<i>rom</i> -rel	✓	✓	✓	✓	✓	~CP
<i>participles</i>	?	?	✗	✓	✓	~ AspP
Complement of	High Adverbs	Matrix Case	Tense	Aspect	Negation	Projection
<i>daiçqvebs</i> 'start'	✗	✗	✗	✗	✓?	NegP/vP
<i>unda</i> 'want'	✗	✗	✗	<i>perfective only</i>	✓	~ TP
<i>xedavs</i> 'see' (indirect)	✓	✓	✓	✓	✓	~CP
<i>pikrobs</i> 'think'	✓	✓	✓	✓	✓	~ CP

## OTHER ASYMMETRIES

- Wh*-elements may not be extracted from most complements (Bondarenko 2024), but may from *unda* type complements; Bondarenko suggests this to be an example of Williams Cycle effect.
- (7) a. *\*ra-s<sub>1</sub> pikrob-s mariam-i [rom šota t<sub>1</sub> çam-s]?*  
what-DAT think-3.SG.PRES Mariam-NOM COMP Shota eat-3.SG.PRES  
Intended: 'What does Mariam think that Shota's eating?' (Bondarenko 2024)
- b. *šota-s ra<sub>1</sub> unda [rom keti-m t<sub>1</sub> moigos]*  
Shota-DAT what.NOM wants COMP Keti-ERG win.OPT.3SG  
'What does Shota want Keti to win?' (Bondarenko 2024)

## ACCOUNT

- I adopt Meadows' (2023) proposal of Parallel Derivation and Williams' (2003) Level Embedding Approach to account for Georgian data.
- (8) **Level-Embedding Approach:** The bigger an embedded clause is, the later in the derivation it is introduced into a matrix clause. Syntactic operations must target the periphery of the current clausal extended projection.
- (9) **Parallel Derivation:** Merge of components of clausal sequences applies in parallel across workspaces.
- (10) a. **V-cycle**  
[V ...]<sub>m</sub> (matrix), [V ...]<sub>e</sub> (embedded)
- b. **vP-Cycle:** Masdar complement complete, must be merged  
✓[vP [v] [... [VP [vP [...] *e* [*daiç'qo*]]]]<sub>m</sub>
- c. **vP-Cycle:** TP-Complement incomplete, can't merge  
✗[vP [v] [... [VP [vP [...] *e* [*unda*]]]]<sub>m</sub>
- d. **T-Cycle:** TP complement complete, can and must be merged  
✓ [TP [T] [... [VP [TP [... [VP [...] *e* [*unda*]]]]]]<sub>m</sub>
- Only complements of sizes that merge before or at some cycle C<sub>n</sub> can be targets for relativization at its time of derivation C<sub>m</sub>, s.t m ≥ n in fseq.
- (11) **AspP-Cycle:** AspP or smaller complements can be targets for participles  
[AspP [Asp] [...]]<sub>m</sub>, [AspP [AspP] [...]]<sub>e</sub> →  
✓[AspP [Asp] [... [AspP [Asp] [...]]<sub>e</sub>]]<sub>m</sub> →  
✓[DP [NP [AspP [Asp] [... [AspP ...] *e* ]]]<sub>m</sub> [N][D]]
- (12) **TP-Cycle:** TP+ complements cannot be participle targets; movement must target current projection.  
[TP [T] [... [AspP ...]]]<sub>m</sub>, [TP [T] ...] *e* →  
✓[TP [TP [T] ...] *e* ...] *e*]]<sub>m</sub>  
✗[TP [T] [... [AspP [TP [T] ...] *e* ...]]] *e*]]<sub>m</sub>

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