

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 çavikitxe cigni ..*
1.SG 1.SG.read.PST book

'I read the book'

- a. *romeli-c rustavel-ma da-cera.*
which-COMP Rustaveli-ERG wrote
'... which Rustaveli wrote.'
- b. *rustavel-ma rom da-cera.*
Rustaveli-ERG COMP PVB-write.NMLZ
'... that Rustaveli wrote.'

(2) *me çavikitxe rustavel-is*
1.SG 1.SG.read.PST Rustaveli-GEN
da-cer-il-i cigni
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 exists, 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^a.
- (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 šegebva-c*} *mariam-ma daiçqo* / {✓*mariam-ma rom daiçqo šegebva}*
{which paint.NMLZ-COMP} Mariam-ERG started Mariam-ERG {COMP started paint.NMLZ}
'... of which Mariam started painting.'
- (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'
- ^aSome 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 {Xrom cigni dacera / ✓rom cigni daeçera / ✓cign-is dacera}*
Mariam-ERG tried COMP book write.AOR COMP book write.PLUP book-GEN write.NMLZ
'Mariam tried {Xthat 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 |
| participles | ? | ? | ✗ | ✓ | ✓ | ~AspP |
| Complement of | High Adverbs | Matrix Case | Tense | Aspect | Negation | Projection |
| <i>daiçvebs 'start'</i> | ✗ | ✗ | ✗ | ✗ | ✓? | NegP/vP |
| <i>unda 'want'</i> | ✗ | ✗ | ✗ | perfective only | ✓ | ~TP |
| <i>xedavs 'see' (indirect)</i> | ✓ | ✓ | ✓ | ✓ | ✓ | ~CP |
| <i>pikrobs 'think'</i> | ✓ | ✓ | ✓ | ✓ | ✓ | ~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-s₁ pikrob-s mariam-i [rom šota t₁ čam-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 ra₁ unda [rom keti-m t₁ 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 ...]_m (matrix), [V ...]_e (embedded)
- b. **vP-Cycle:** Masdar complement complete, must be merged
✓[vP [v] [... [VP [vP [...]]_e [daic'qo]]]_m
- c. **vP-Cycle:** TP-Complement incomplete, can't merge
✗[vP [v] [... [VP [vP [...]]_e [unda]]]_m
- d. **T-Cycle:** TP complement complete, can and must be merged
✓ [TP [T] [...] [VP [TP [...] [VP [...]]_e [unda]]]_m

- Only complements of sizes that merge before or at some cycle C_n can be targets for relativization at its time of derivation C_m , s.t $m \geq n$ in fseq.

AspP-Cycle: AspP or smaller complements can be targets for participles

[AspP [Asp] [...]]_m, [AspP [AspP] [...]]_e →
✓[AspP [Asp] [... [AspP [Asp] [...]]_e]]_m →
✓[DP [NP [AspP [Asp] [...] [AspP [...]]]_e]]_m
[N][D]]

TP-Cycle: TP+ complements cannot be participle targets; movement must target current projection.

[TP [T] [...] [AspP [...]]]_m, [TP [T] [...]]_e →
✓[TP [TP [T] [...]]]_m
✗[TP [T] [...] [AspP [TP [T] [...]]]_e ...]]_m

REFERENCES

- Bondarenko, T. 2024. Getting by without movement: building & interpreting indirect wh-dependencies
- Borise, L. 2023. The syntax of wh phrases, narrow foci, and neg-words in georgian
- Foley, S. 2013. The syntax of georgian relative clauses. NYU
- Keine, S. 2016. *Probes and their horizons*. UMass Amherst Dissertation.
- Meadows, Tom. 2024. Size matters. Queen Mary University of London Dissertation.
- Müller, G. 2013. A local reformulation of the Williams Cycle. Universität Leipzig.
- Williams, E. 2003. *Representation theory*.
- Williams, E. 2011. Regimes of derivation in syntax and morphology