

Upward Agreement and Syntactic Counterfeeding in Lubukusu

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Overview

Questions

- 1. Is agreement upward looking, downward, or does it vary?
- 2. How does agreement interact with case/movement/etc.?

Formal considerations Manylong-distance linguistics dependencies are tier-based strictly local (TSL) (Graf 2022)

This work Reanalyze the Lubukusu complementizer agreement data from Diercks (2013) data as a TSL pattern over MG dependency trees

- **Upward agreement** is shown to be unproblematic
- Hyperraised subjects are correctly predicted not to agree

Implications Movement may or may not feed subsequent operations

→ We need a system that can handle both feeding and counterfeeding

TSL Syntax

TSL in a nutshell

- 1. Ignore the irrelevant items; the remainder form a **tier projection**
- 2. Items on the tier are subject to strictly local constraints
- 3. Each logical dependency has a unique tier and constraints

Example: English subject movement and verbal agreement

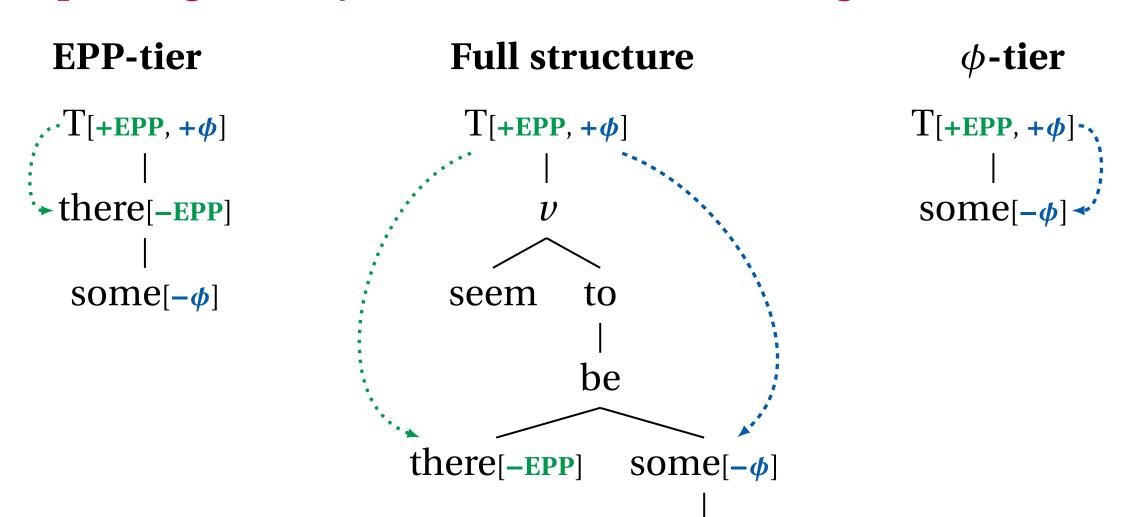


Figure 1: MG dependency tree for *There seem to be some problems*, with tiers for EPP-movement and ϕ -ageement. See below for details.

problems

MG dependency trees

- Static representation of a syntactic derivation: a derivation tree
- Every node is a lexical item in base position
- Daughters of a node are its arguments in c-command order

TSL model of agreement (Hanson 2024)

- Project a tier based on the **d[erivational]-command** relation (Graf and Shafiei 2019), which combines dominance and precedence
- The tier for each dependency contains only (i) potential participants and (ii) relativized blockers (cf. Keine 2019)
- On the tier, a probe and its goal (or landing site and mover) must be adjacent; other constraints vary

Notes

- There is a potential EPP-mover, but not a potential agreement target
- Intermediate/final positions of movers are not represented
- Successive cyclic movement is assumed not to be feature-driven

Direction of Complementizer Agreement

Descriptive generalization Complementizer agreement may target the embedded subject (downward agreement) or the subject of the containing clause (upward agreement)

TSL analysis Tier includes C heads and subjects (D[-EPP]); order of the probe and goal varies

- Downward agreement: probe immediately precedes (commands) goal
- Upward agreement: goal immediately precedes (commands) probe

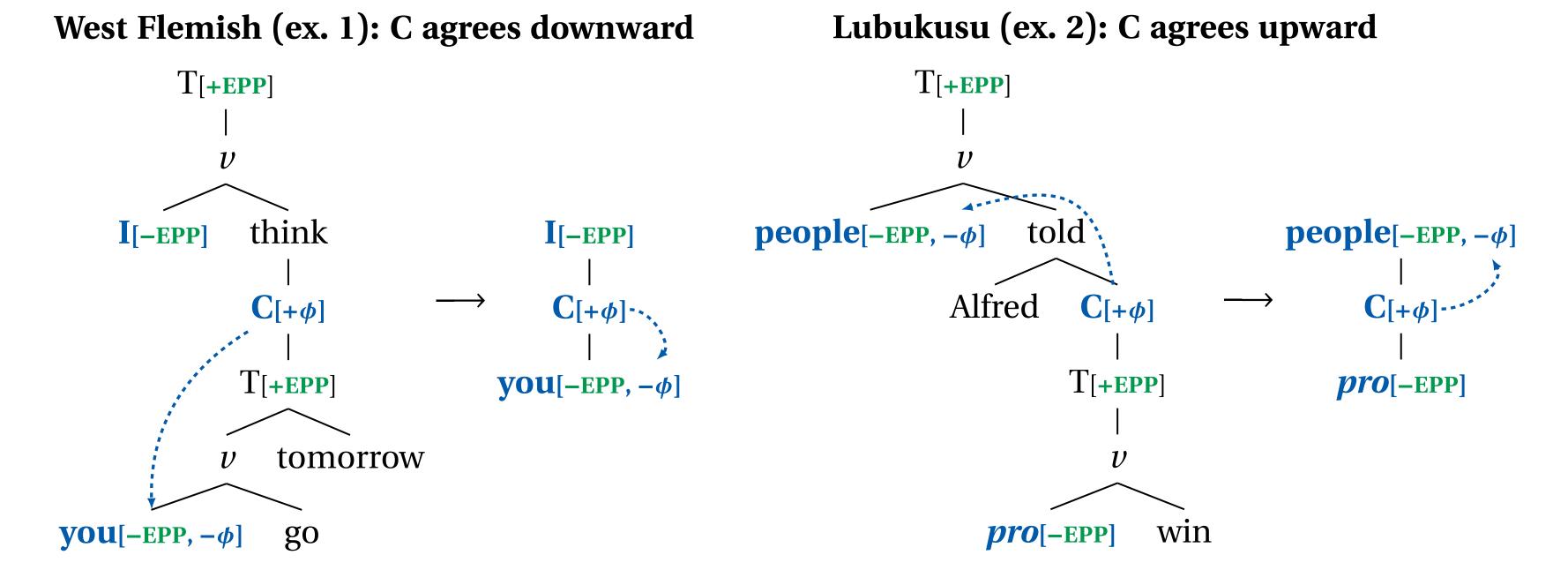
Examples

- (1) Downward complementizer agreement in West Flemish (Germanic)
- Kpeinzen da-j [CP] (gie) morgen goat]. I.think that-you (you) tomorrow go 'I think that you'll go tomorrow.'
- (2) Upward complementizer agreement in Lubukusu (Bantu)

 Ba-ba-ndu ba-bolela Alfredi** [CP ba-li** pro a-kha-khile].

 C2-C2-people c2-said c1.Alfred c2-that pro c1-FUT-conquer

 'The people told Alfred that he will win.'



Note: Verbal agreement is ignored for simplicity, assumed to reside on separate tier (not shown)

Syntactic Counterfeeding

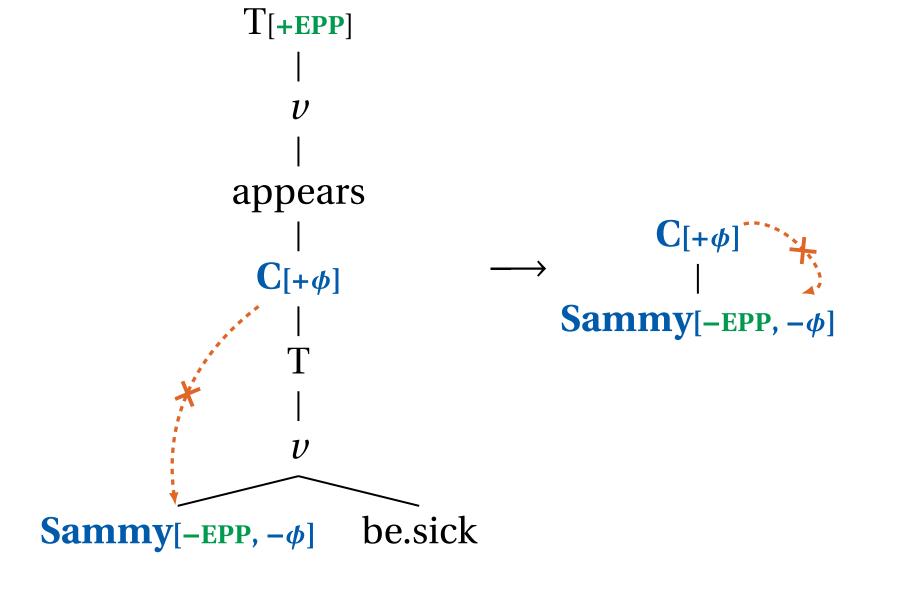
Lubukusu hyperraising The subject moves to an agreeing position, yet is invisible for agreement **Explanation** Subject appears below C in dependency tree in a language with upward agreement

(3) Agreeing complementizer incompatible with hyperraising Sammy a-lolekhana mbo (*a-li) a-likho a-lwala.

c1.Sammy c1-appears that (*c1-that) c1.PROG c1-be.sick

'Sammy appears to be sick.' (lit. 'Sammy seems that is sick.')

Lubukusu (ex. 3): Hyperraised subject is below C and cannot agree



Operation Ordering in Syntax

Prediction (with caveats) Minimalism predicts feeding/bleeding; TSL over MG dependency trees predicts counterfeeding/counterfeedingReality Both types of patterns are attested

Mvmt. + Case	Object-shift feeds accusative marking	e.g. Turkish
Case + Agreement	Ergative marking bleeds V-agreement	e.g. Hindi
Mvmt. + Agreement	Hyperraising counterfeeds C-agreement	e.g. Lubukusu
Mvmt. + Binding	<i>Wh</i> -movement counterbleeds Principle B	e.g. English

Table 1: Examples of operation ordering in syntax.

Caveats: (i) copy movement can produce counterbleeding, (ii) TSL syntax can handle some feeding/bleeding in parallel

Why the Lubukusu data is important

- Difficult to disentangle operation ordering from locality/visibility effects
- Movement from below upward agreeing head avoids this confound

Towards a flexible system for operation ordering

- Naïve MG implementation: ordering among licensee features
- e.g. Feature spec. for Lukusu D head: (+N) -D $(-\phi)$ (-EPP)
- Problem: derivations with ordered licensee features may not be TSL
- TSL-compatible alternative: ordered tree-to-tree maps
- e.g. Lubukusu: Selection < C-Agreement < Hyperraising
- TSL tree-to-tree maps are a subject of current research (cf. Graf 2023)

Diercks' Indirect Agreement Analysis

- Claim: C agrees with operator in Spec-CP, bound by higher subject
- Problem: Requires extra stipulation to handle hyperraising case
- Comment: Upward dependency formally identical, recast as binding

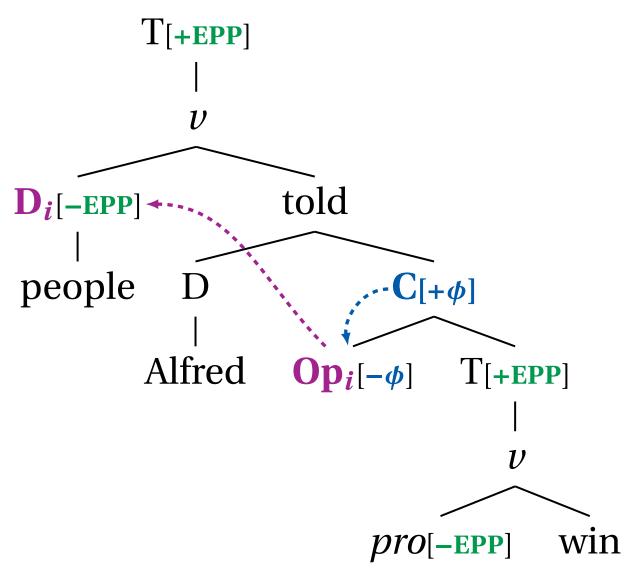


Figure 2: MG dependency tree for Diercks' analysis of (3).

References and Acknowledgments

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