

Looking for the governor, or the problem of argument status in double-marking languages: a Construction Grammar perspective

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Overview

- Problems for mainstream lexicalist approaches to argument structure in accounting for double marking (head-marking + dependent-marking) languages
- Alternative CxG approach based on independent argument structure constructions and unification
- Application of CxG analysis to “conflicting” evidence for argument status in Jaminjung (Mirndi, Non-Pama-Nyungan, Australia)

Jaminjung

- Victoria River District, Northern Australia
- Western branch of the geographically discontinuous Mirndi family (Non-Pama-Nyungan)
- No longer acquired by children; approx. 30 speakers > 60 years
- Data from own fieldwork since 1993



Jaminjung: main grammatical characteristics

- Free word order
- Double marking (head and dependent marking)
- Ergative-absolutive case system (with complications)
- Prevalence of complex predicates (treated here like simple lexical verbs)

Part I

The problem of argument status in double-marking languages

Double marking

(in the traditional sense of Nichols (1986), Nichols and Bickel (2008 [2005])):

- Obligatory pronominal affixes (cross-reference markers) plus co-referential case-marked noun phrases

Double marking in Jaminjung

- Pronominal prefixes mark
 - the single argument (S) of (morphologically) intransitive verbs
 - both arguments (A and P) of (morphologically) transitive verbs

Gujarding=biya ga-ngga murdab.
 mother:=SEQ 3SG_i-go.PRS forage

'The mother then goes hunting.'

Gugu=biyang burrb gani-minda-ny jalig-ni.
 water:=SEQ finish 3SG_i>3SG_i-eat-PST child-ERG

'Then the child drank up all the water.'

Clitic doubling

- Clitic pronominal indices "doubling" a coreferential NP are present optionally, or only in certain constructions
 - e.g. depending on referential properties (animacy) or accessibility (specificity, givenness) of the argument (Bynon 1992; Anagnostopoulou 1999; Kallulli & Tasmowski 2008; Gabriel & Rinke 2010)

Clitic doubling in modern Greek

- E.g. variable clitic doubling of indirect object

a. *Edhosa tu Jani ta lefta*
 gave:1SG DEF:GEN Jani DEF money:ACC
 'I gave Jani the money'

b. *Tu edhosa tu Jani ta lefta*
 3SG:GEN gave:1SG DEF:GEN Jani DEF money:ACC
 'I gave Jani the money' (Papangeli 2000: 496, 497)

Clitic doubling in Jaminjung

- Enclitic oblique (dative) pronouns can cross-reference arguments and adjuncts encoding e.g. beneficiary, recipient, purpose, location and goal
 - NPs marked dative, allative, or locative
- Clitic doubling restricted to higher animate referents
 - a. *wurdbaj ba-wuny-ijga thanthu-wu jimindirr-u*
 look.for IMP-2DU-go DEM-DAT knife-DAT
 'You two look for that (specific) knife (that you lost).'
 - b. *nga-jga-ny=nu wurdbaj yina-wu janyungbari-wu*
 1SG-go-PST=3SG.OBL look.for DIST-DAT another-DAT
 'I was looking for that other person.'

The problem of argument status

- In double-marking and clitic doubling languages, which constituents have argument status: pronominal indices or NPs (DPs)?
- The problem arises because of specific assumptions of lexicalist approaches to argument structure
 - to be avoided in the construction-based approach endorsed here

Assumptions of lexicalist approaches

1. Verbs have a syntactic valency which determines their argument structure, directly (giving rise to the notions of "government" and "subcategorisation") or via linking hierarchies

GOVERNMENT

- e.g. German *zeig-* 'show' (SUBJ_{NOM}, IO_{DAT}, DO_{AKK})

Assumptions of lexicalist approaches

2. Arguments of verbs can only be expressed once in a clause

- o Fillmore (1968)
- o Theta Criterion (Chomsky 1981)
- o Bi-uniqueness condition / Functional Uniqueness
- To preserve this principle, various different solutions have been proposed for double-marking languages ...

Solution I (traditional): Agreement

Case-marked NPs: arguments

Pronominal indices: agreement markers

(Good) criteria (e.g. for English verb agreement):

- o Argument NPs are obligatory
- o Pronominal indices are redundant in the sense of not adding any information
- o Pronominal indices, unlike "true" pronouns, can be non-referential (Evans 2002; Corbett 2006: 103)

Solution I (traditional): Agreement

Case-marked NPs: arguments

Pronominal indices: agreement markers

Problems:

In languages where NP arguments are not obligatory, pronominal indices are not dependent on the presence of NPs (= no surface agreement)

burrb gani-minda-ny
finish 3SG>3SG_i-eat-PST
'He/she drank it up.'

Solution I (traditional): Agreement

Problems (cont.)

- Pronominal indices can express features which are not expressed in the (supposedly) controlling NP (e.g. number)

Gugu=biyang burrb burru-minda-ny jalig-ni.
water=SEQ finish 3PL_i>3SG_i-eat-PST child_j-ERG
'Then the children drank up all the water.'

Solution I (traditional): Agreement

Problems (cont.)

- Pronominal indices can even express features which clash with features of the NP
 - o e.g. in the inclusory construction, widespread in Australian languages (Singer 2001)
 - o Two argument expressions are in a superset-subset relationship: the reference of one (any sg NP) is properly included in the other (non-sg pron. index)

Ngiya [gujung Nangari] warduj gulujab yiny-irilba-ny.
here [mother <name>]_i get.lost nearly 1DU.EXCL_i-fall-PST
'Here Mummy Nangari (and I), we two nearly got lost.'

Solution II: Pronominal arguments

Pronominal indices: arguments

Case-marked NPs: adjuncts / secondary predicates, coreferential with pronominal arguments

(Good) criteria:

- "Argument" NPs are clause-external, e.g. dislocated topics, especially when case marking deviates from that of clause-internal NPs
- ?? "Argument" NPs are optional

Solution II: Pronominal arguments

Problems:

- Unsatisfactory definition of adjunct / secondary predicate (cf. Schultze-Berndt 2006a), lumping together prosodically integrated with dislocated phrases
- Unsatisfactory for clitic doubling when occurrence of clitics is variable and depends e.g. on animacy or discourse status of the referent
- Completely different mechanism required for case assignment in “pronominal argument” and “NP argument” languages

Solution II: Pronominal arguments

Problems (cont.):

- Not all core arguments are pronominal arguments
 - cf. for Australian languages Austin & Bresnan (1996), Nordlinger (1998: 34-43)
 - Jaminjung: ditransitive predicates allow for two absolutive objects, but only one is also cross-referenced on the verb

Ngayug=biya ti=binji ba-wun-ngarna burlug.
 1SG_i=SEQ tea_i=only IMP-2DU_j>1SG_i-give drink
 'Me, give me only tea to drink, you two.'

Solution III: Basic grammatical relations

Assumptions:

- Verbs assign fundamental grammatical relations (“Subject/Object”; “S, A, O”) which are independent of morphological marking
- Case marked NPs and pronominal indices may jointly indicate grammatical relations, but are neither necessary nor sufficient to identify them

Problem:

- How are grammatical relations to be defined to ensure cross-linguistic applicability? (Croft 2001)

Part II

Double marking in a (radical) construction-based model

Basic assumptions of CxG (general)

- Monostratal approach
- Constructions are conventionalized, language-specific symbolic associations of (partially templatic) form and meaning
 - All constructions have a constructional meaning, however abstract
- The grammatical structure of a language can be described entirely in terms of constructions and restrictions on their fillers
 - Morphology is represented in terms of word-internal constructions

Argument structure constructions

(Only assumed by some proponents of CxG, e.g. Goldberg 1995, 2005)

- Argument structure constructions exist independently of the valency of lexical items
- Linking is based on compatibility of verb-specific semantic participant roles with the semantics of a given argument structure construction

Form:

SUBJ _{NOM}	IO _{DAT}	DO _{ACC}
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 } Constr.

Sem.:

Macro-Agent	Macro-Recip	Macro-Pat
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Sem. Valency: *zeig-* <shower, recipient, shown.thing>

„Radical Construction Grammar“

→ Radical Consequence (Croft 2001): no general grammatical relations, only

- constructions with specific syntactic roles
- semantic relations between sem. components of constructions

Form

- Construction
- Constituents

Meaning

- Components
- Construction

Figure 5.1. The internal structure of a construction (exploded diagram)
based on Croft (2001: 176, 204)

Application to Double Marking

- A semantic participant can be encoded by more than one syntactic argument as long as the expressions involved
 - allow unification to jointly encode a single conceptual entity – thus excluding multiple conflicting arguments, e.g. *the child ate the bananas the peas the sausage*
 - have different functions – thus excluding mere repetition, e.g. *the child ate the peas the peas the peas*
- Pronominal indices and case-marked NPs may individually or jointly represent semantic participants of a predicate

Application to Double Marking

jalig-di gugu burrb gani-minda-ny
 child-ERG water(ABS) finish 3SG.A>3SG.P-eat-PST

Constr. I

Constr. II

Sem.

NP(ABS) V'

NP-ERG V'

<eater, eaten.thing> burrb + -mindi ,eat'

A_{NOM} : P_{ACC} -V_{Stem}

Consequences

- Pronominal indices and case-marked NPs both have “argument status” in the sense that they constitute argument slots in two distinct types of constructions
- No grammatical relation of “government” – since argument slots combine with verbs on the basis of semantic compatibility / collocational co-dependency
- No grammatical relation of agreement between a given NP and a pronominal index; the relationship is an indirect one in that both can represent the same semantic participant.

“Agreement’ is (...) simply double indexation, by the independent argument phrase and by the agreement affix.” (Croft 2001: 229)

Advantages

- Accounts for the fact – long recognised in typology – that pronominal indexing and case marking are structurally and semantically distinct, and have grammaticalized from different origins (e.g. Lehmann 1988; Bickel 2000)
- Accounts for degrees of grammaticalization of pronominal indices, including variable “clitic doubling” (e.g. Givón 1976; Mithun 1991; Bynon 1992; Corbett 2006: 107; van Gijn 2011) without a need for a radical change of status at any given stage of the grammaticalization cline

Advantages

- Accounts for a number of language-specific “mismatches” between argument NPs and pronominal indices

2. „Syncretism“ of Ergative and Instrumental

Crucial evidence:

- One morphologically intransitive verb, *-irna* 'burn, be affected by heat', allows an ergative-marked NP to be present
- The fire as heat source qualifies as an Effector, but not as an ultimate cause, i.e. it is not compatible with the A pronominal index of a transitive verb

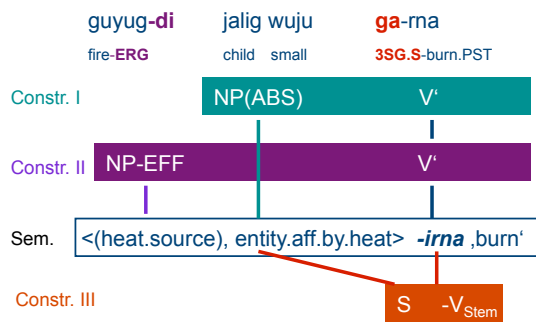
jaliḡ wuju ga-ma guyug-di
 child small 3SG-burn.PST fire-EFF
 'The little child got burnt by the fire'

2. „Syncretism“ of Ergative and Instrumental

- If an ultimate cause is present in addition to the heat source, the transitive verb *-irriga* 'cook, burn' has to be chosen instead

(*yurigi*) *guyug-di burru-rriga=nu, jaḡ-gu*
 leech fire-ERG/INST 3PL>3SG-cook.PST=3SG.OBL go.down-DAT
 'They burnt (the leech) with fire for her, to make it come down.'

2. „Syncretism“ of Ergative and Instrumental



3. Variable agent marking: optional ergativity

- No clear-cut split system (though problems posed by those are rather similar)
- Rather, ergative-marking of agents is optional in Jaminjung, as e.g. in Gooniyandi (McGregor 1992, 1998)
- In a text count (Schultze-Berndt 2006b), more than 30% of overt A noun phrases were not marked for ergative

3. Variable agent marking: optional ergativity

- Factors are not clear-cut but include factors also observed for split systems, i.e.
 - verb class (less "effective" verbs, e.g. 'have', 'see', are less likely to appear with ergative-marked As)
 - tense/aspect, animacy of A,
 - but also information structure, discourse pragmatics

Malara=biya dibard ganuny-ngunga-m, ba-ngawu.
 frog=SEQ jump 3SG>3DU-leave-PRS IMP-see
 'The frog now is leaving the two jumping away, look.' (Frog Story)

Majani gujarding-ni waj gan-unga-m.
 maybe mother-ERG/INST leave.behind 3SG.A>3SG.P-leave-PRS
 'Maybe the mother leaves her (a child).'

3. Variable agent marking: optional ergativity

Analysis in terms of Constructional meanings:

- Absolutive (unmarked, default) case: Argument is centrally involved in an event (core participant)
- Non-specific as to the actual role of the argument, thus compatible with
 - agents, experiencers, etc.
 - patients, themes etc.
 - any single participant of intransitive verbs
 - both theme and recipient of ditransitive verbs, etc
- Ergative case on agent NPs is only used when Effector nature of this argument is made explicit

3. Variable agent marking: optional ergativity

	malara	(jalig + wirib)	dibard	ganuny-ngunga-m
	frog	(child + dog)	jump	3SG.A>3SG.P-leave.PRS

Constr. I: NP(ABS) V'

Constr. II: NP(ABS) V'

Sem. <leaver, entity.left> -ngunga

Constr. III: A : P -V_{Stem}

3. Variable agent marking: ablative agent

- In Jaminjung, the ablative case can (rarely) replace the ergative/instrumental case with agents
- Proposed constructional meaning (highly specific) of ABL in secondary meaning
 - a. Metaphorical "Source" = Participant which is the ultimate cause of an event (Sem. Role component); **same as A prefix**
 - b. Contrast (Information Structure component)

3. Variable agent marking: ablative agent

"nanggayan guny-bi-yarluga?" gani-yu=bunyag,
 who 2DU>3SG-POT-spear 3SG>3SG-say/do.PST=3DU.OBL

yangarra-ngunyi=marlang
 kangaroo-ABL=GIVEN

"Who do you want to spear?" the kangaroo said to the two (hunters). (From a story about two kangaroos who start behaving in human-like fashion, to the surprise of the men hunting them.)

"nganthu-rum" wamanggal-ni gani-yu=rnu
 2SG.POT-come doctor-EFF 3SG>3SG-say/do.PST=3SG.OBL

"You should come here", the doctor said to her.

Summary and outlook

- A radical CxG approach to argument structure gets by without the notion of government
- Instead: bi-directional „collocational dependencies“ (Croft 2001) between argument structure constructions and verbs
 - based not on syntactic relations, but on semantic relations between constructional meanings and verbal participants
- Constraint of functional uniqueness / theta-criterion can be replaced with unification requirement

Summary and outlook

- This approach accounts straightforwardly for double marking and clitic doubling
 - NPs and pronominal indices are each argument structure constructions in their own right
 - Independent instantiations of verb's semantic participants, no relationship of agreement needed
 - optionality or variable occurrence of one or the other do not require fundamentally different treatment as arguments / non-arguments

Summary and outlook

- Well-defined constructional meanings serve to constrain the occurrence of argument structure constructions; these can include constraints on
 - argument role (any core arg, effector, ultimate cause, ...)
 - **(non-valency based)** referential properties of argument NPs (e.g. animacy in clitic doubling and split systems)
 - **(non-valency based)** information structure values, e.g. contrast for ablative agents in Jaminjung

Summary and outlook

- Additional language-specific constraints may be of a pragmatic nature, e.g.
 - specification of degrees of semantic coercion (forced feature clash resolution) permitted in unification (as for the inclusory construction in Jaminjung)
 - possibility of choice between competing markers for a given argument (e.g. Ergative vs. Absolutive vs. Ablative agents in Jaminjung)