

Predication, specification, and equation in Ch'ol*

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1 Introduction

- In this talk, we discuss three types of copular constructions:

- predicational (*Maria_{REF} is a teacher_{PRED}*)
- specificational (*The teacher_{NON-REF} is Maria_{REF}*)
- equative (*Clark Kent_{REF} is Superman_{REF}*)

- One of the key questions that research on this topic addresses is if and how these clauses are related to one another, both derivationally and in their underlying structure.

- ▶ We argue that all three types of copular clauses in Ch'ol have different surface structures, previewed in (1):

(1) Three surface structures in Ch'ol copular sentences:

	TOPIC	FOCUS	Predicate	DP
Predicational			NP _{PRED} =ABS	DP _{REF}
Specificational		DP _{REF}		DP _{NON-REF}
Equative	DP _{REF}			DP _{REF}

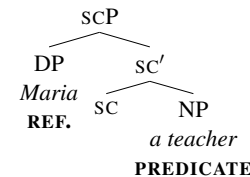
**Wokox awäläl* to Virginia Martínez Vázquez, Morelia Vázquez Martínez, and María Vázquez Martínez for Ch'ol data and discussion. Thanks also to Juan Jesús Vázquez Álvarez, Carol-Rose Little, and audiences at McGill, UMass, and TOMILLA for comments and helpful feedback. Ch'ol data were collected in summer 2022 in Campanario, Chiapas with support from an FRQSC grant to Martinović, and in subsequent virtual meetings. All errors are our own and authors are listed in alphabetical order.

- Ch'ol also provides evidence for the different underlying structures of predicational and specificational sentences:

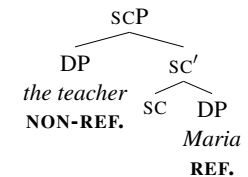
(2) Underlying differences among Ch'ol copular sentences:

	TOPIC	FOCUS	Predicate	Small Clause
Pred.			NP _{PRED}	DP _{REF} NP _{PRED}
Spec.		DP _{REF}		DP _{NON-REF} DP _{REF}

(3) Predicational



(4) Specificational



- ▶ Our key claims concern specificational sentences:

- Specificational sentences *are not* inverted predicational sentences (contra, e.g., Heggie 1988; Moro 1997; Heycock 1994; Mikkelsen 2005; den Dikken 2006)
 - definite descriptions cannot be predicates in Ch'ol
 - absolutive agreement is obligatorily absent in specificational constructions, which is surprising if the referential expression is the underlying subject
- Specificational sentences are also not a type of equative sentence (contra Heycock and Kroch 1999, 2002; Rothstein 2001)

Plan: □ Copulas • □ Predication vs. Specification • □ Equation • □ Implications

- Verbal predicates like (8-a) denote events and require one of a set of aspectual morphemes and a “status suffix”
 - Non-verbal predicates like (8-b) denote states and may *not* appear with aspectual morphology or status suffixes
- As the NVP in (8-b) shows, Ch'ol does not have a copula—regardless of temporal or person/number specification:

- (9) a. Maystraj-oñ.
teacher-1 ABS
'I am a teacher.'
- b. Wajali maystraj-oñ.
back.then teacher-1 ABS
'Back then, I was a teacher.'
- c. Maystraj ajMaria.
teacher Maria
'Maria is a teacher.'

- Ch'ol is head-marking pro-drop. Absolutive morphemes—like *-oñ* in (9)—co-index objects and intransitive subjects; free-standing pronouns typically only appear in preverbal topic or focus positions, or when pro-drop is not licensed

(10) Ch'ol absolutive morphemes and full pronouns

	absolutive	full pronoun
1st person	-(y)oñ	joñoñ
2nd person	-(y)ety	jatyety
3rd person	∅	∅

- As in other Mayan languages, a *single focus position* is available at the left edge of the clause, for which focused constituents, wh-words, relativized elements, and certain focus-sensitive operators compete (Norman 1977; Aissen 1992):

- (11) a. [_{FOC} Maxki] tyi i-mek'-e ñeñe ____ ?
who PFV 3ERG-hug-TV baby
'Who hugged the baby?' *wh-question*

- b. [_{FOC} AjMaria] tyi i-mek'-e ñeñe ____.
Maria PFV 3ERG-hug-TV baby
'MARIA hugged the baby.' *focus*

3.1 Predicational sentences

- Predicational constructions are characterized by:
 1. obligatory absolutive agreement on the predicate
 2. ungrammaticality of DP predicates
- **Obligatory agreement:** Absolutive morphology appears obligatorily on the predicate to mark subjects in predicational copular constructions, regardless of whether an overt pronoun is also present; there is no 3rd person absolutive:

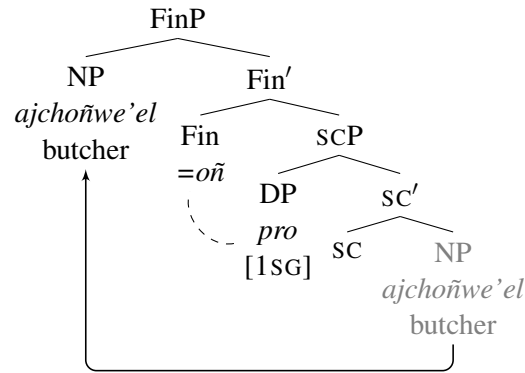
- (12) a. Aj-choñ-we'el-*(oñ).
AGT-sell-meat-1 ABS
'I am a butcher.'
- b. [_{FOC} Jatyety] sajxk'aläl-*(ety).
2PRON little.girl-2ABS
'YOU'RE a little girl.'
- c. Xwujty jiñi wiñik.
healer DET man
'The man is a healer.' *(predicational)*

- **No DP predicates:** Nominal predicates may include phrasal material (e.g., adjectives) but *not* include D⁰-level elements, a restriction also noted by Armstrong (2009) for Yucatec Maya:

- (13) a. Chuty x'ixik-oñ.
small woman-1 ABS
'I'm a small woman.'
- b. *Jiñi maystraj-ety.
DET teacher-2ABS
intended: 'You are the teacher.'

- We propose that predicational sentences like (12-a) have the structure in (14):

(14) Predicational structure



- Predication involves an asymmetrical small clause (Bowers 1993; Baker 2003; den Dikken 2006; Armstrong 2009 for YM)
- Absolutive morphemes are pronominal clitics generated via an Agree between a ϕ -probe on a functional head, here Fin^0 , and the closest DP in its search domain
- The predicate raises to a position above the subject, and the absolutive clitic adjoins to it

3.2 Specificational sentences

- Specificational constructions, in contrast, are characterized by:
 1. The *impossibility* of absolutive agreement
 2. The non-referential nominal *may* have D^0 -material
- To elicit these, we set up contexts in which a *value* DP satisfies a non-referential description, in this case, a particular profession.
- Context: there's a small market that your friend's family runs. There's a tortilla-seller, a butcher, and a fish-monger. You know that your friend and her family members work in all the stalls, but you're not sure who does what. You ask...

- (15) a. Maxki jiñ aj-choñ-we'el=i?
 who DET AGT-sell-meat=ENC
 'Who's the butcher?'
 b. [_{FOC} Joñoñ] aj-choñ-we'el.
 1PRON AGT-sell-meat
 'The butcher is me.' (specificational)

- The referential DP *joñoñ* 'I' in (15-b) occupies FOCUS
- The non-referential DP *ajchoñwe'el* 'the butcher'—claimed to be a predicate in *Predicate Inversion* approaches—is *not* in the predicate position

Focus

- Work since Higgins (1973) has noted that the referential DP in specificational sentences is focused; this has been taken to be one of the defining characteristics of specificational sentences.

(16) Three surface structures in copular sentences:

	TOPIC	FOCUS	Predicate	DP
Predicational			$\text{NP}_{\text{PRED=ABS}}$	DP_{REF}
Specificational		DP_{REF}		$\text{DP}_{\text{NON-REF}}$

- Since no element occupies the FOCUS position in a *predicational* construction, we correctly predict that predicational subjects can move to this position, as in (12-b) above.
- However, *specificational* sentences should be incompatible with other elements in focus; constituents marked with the clitic =*jach* 'only' must occupy the focus position.
- As predicted, specificational constructions like the ones in (24-a) are incompatible with elements in FOCUS:

- (17) *Wa'li=jach joñoñ jiñi aj-choñ-we'el.
 today=ONLY 1PRON DET AGT-sell-meat
 intended: 'Only today the butcher is me' (e.g., I'm filling in for my sister)

Agreement and non-referential DPs

- **No absolutive:** While agreement is obligatory in predicational constructions, it is ungrammatical in specificational ones:

- (18) a. Aj-choñ-we'el-oñ.
 AGT-sell-meat-1 ABS
 'I'm a butcher.' (predicational)
- b. *Joñoñ aj-choñ-we'el-oñ.
 1PRON AGT-sell-meat-1 ABS
 intended: 'The butcher is me.' (*specificational)
 possible as: 'I am a butcher.' (✓predicational)

- **Non-referential DPs:** While predicates in predicational constructions cannot have D⁰ elements, the non-referential variable *can* appear with a determiner:

- (19) a. *[Jiñi aj-choñ-waj] [ajMaria].
 DET AGT-sell-tortilla Maria
 intended: 'Maria is the tortilla-seller.' (predicational)
- b. [AjMaria] [jiñi aj-choñ-waj].
 Maria DET AGT-sell-tortilla
 'The tortilla-seller is Maria.' (specificational)

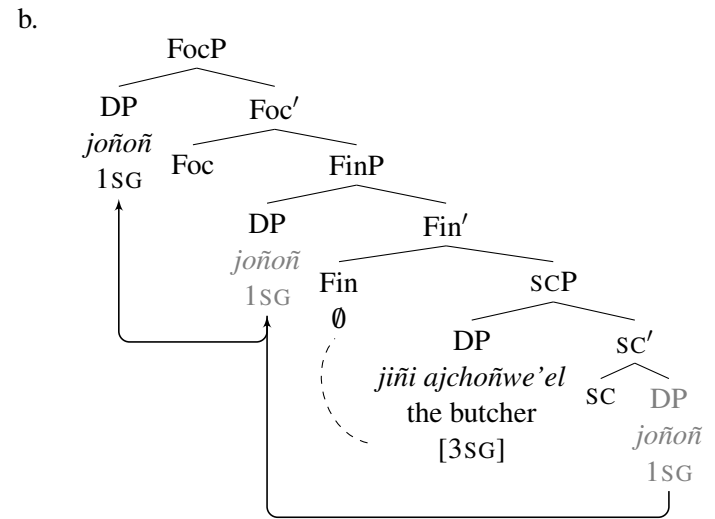
- (Determiners are not required for definite readings in Ch'ol, but when present, they force definite readings. See e.g., Little 2020.)

- As predicted, absolutive morphology is incompatible with a determiner on the non-referential DP:

- (20) *Joñoñ **jiñi** aj-choñ-we'el-oñ.
 1PRON DET AGT-sell-meat-1 ABS
 intended: 'I am the butcher.' / 'The butcher is me.'

- We propose that specificational sentences have the structure in (21)

- (21) Specificational structure
- a. Joñoñ aj-choñ-we'el.
 1PRON AGT-sell-meat
 'The butcher is me.'

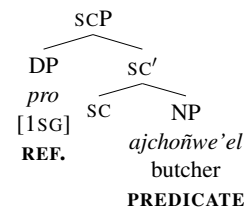


- The subject of SCP is non-referential (i.e., the *variable*)
- The referential DP raises to the clause-initial *focus position*

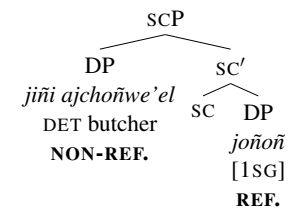
► **The absence of a 1st person absolutive morpheme is expected**—the non-referential NP in specificational clauses is always 3rd person, and **there is no overt 3rd person absolutive morphology.**

- The referential DP occupies different base positions in predicational and specificational constructions:

(22) Predicational

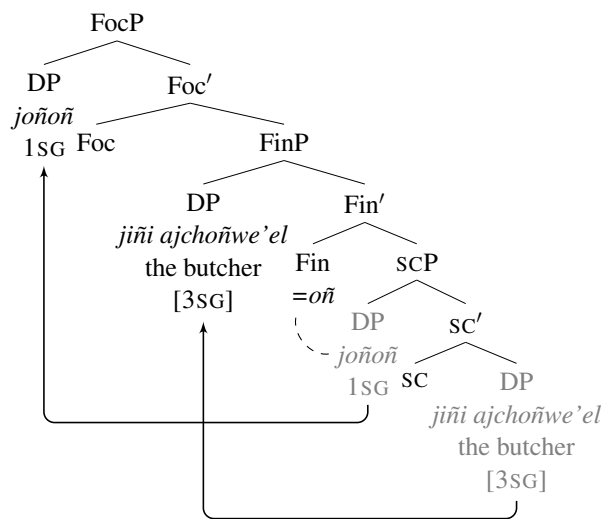


(23) Specificational



- If the subject of the specificational clause were the referential DP, absolutive marking should occur on its purported predicate:

- (24) a. Joñoñ jiñi aj-choñ-we'el(*-oñ).
 1PRON DET AGT-sell-meat-1 ABS
 'The butcher is me.'
 b. *



- Even if *jiñi aj-choñ-we'el* 'the butcher' does not raise to the predicate position, we would expect the agreement clitic to occur in the clause, as a result of the agreement of Fin with the 1st person subject *joñoñ*

Plan: Copulas • Predication vs. Specification • Equation • Implications

4 Equatives

- In specificational sentences, the non-referential DP doesn't behave like a predicate.

- The next question to address is whether specificational sentences are a type of *equative* construction, as in Heycock 1994. Again, Ch'ol shows us that the answer is no.

- In Ch'ol equative copula constructions, two DPs are juxtaposed with one occupying the clause-external TOPIC position

(25) Three surface structures in copular sentences:

	TOPIC	FOCUS	Predicate	DP
Predicational			NP _{PRED} =ABS	DP _{REF}
Specificational		DP _{REF}		DP _{NON-REF}
Equative	DP _{REF}			DP _{REF}

- Context: Brad Pitt is staying at a hotel in Palenque, but he wants to have a relaxing vacation, so he's grown out his beard, is wearing sunglasses, and not telling anyone who he is—he's going by the name "Juan". We've been staying there a few days, and you start to suspect who Juan is. You say to me...

(26) Jiñi ajJuan, ajBrad Pitt=**me**.
 DET Juan Brad Pitt=AFF
 'Juan is actually Brad Pitt.'

- ⇒ The sentence in (26) involves an obligatory pause, and a 2P clitic which appears attached to the *second* of the two DPs, as expected if the first DP is in a clause-external topic position

- Vázquez Álvarez (2011) argues that Ch'ol topics are *external topics* in the sense of Aissen 1992: they are outside of focus, and separated from the clause by an intonational pause:

(27) [A li ajOskar=i], [ixim=**äch**] tyi ikuchu tyälel.
 TOP DET Oskar=ENC corn=AFFR PFV carry DIR
 'As for Oskar, he brought CORN.' (Vázquez Álvarez 2011)

- 3rd-person topics always appear with one of a set of D⁰ elements (*li, jiñ(i), ili, ixä*), and may appear with a final enclitic =*i*

- Topics may optionally be introduced with a topic marker, *a*
- Clausal second-position (2P) clitics may attach to elements in FOCUS, but not TOPIC (Vázquez Álvarez 2011)

- Because neither predicational nor specificational constructions involve the topic position, 2P clitics are correctly predicted to attach to the first DP, in contrast with equatives, repeated in (28-c):

- (28) a. Ñeñe'=tyo ajMaria(*=tyo).
 baby=STILL Maria=STILL
 'Maria is still a baby.' (predicational)
- b. Joñoñ=äch jiñi aj-choñ-waj(*=äch).
 1PRON=AFF DET AGT-sell-tortilla=AFF
 'The tortilla seller is indeed me.' (specificational)
- c. Jiñi ajJuan, ajBrad Pitt=me.
 DET Juan Brad Pitt=AFF
 'Juan is actually Brad Pitt.' (equative)

- **Second**, while foci may be embedded in finite embedded clauses, topics may not (Vázquez Álvarez 2011).

- (29) Tyi k-ñächtyä [che' jiñ ajPeru' tyi i-tyumi xchutyalob].
 PFV 1ERG-hear C DET Pedro PFV 3ERG-advise boy
 'I heard that *Pedro* gave advice to the boy.'
- (30) *Tyi k-ñächtyä [che' a li ajPeru', tyi ityumi xchutyalob].
 PFV 1ERG-hear C TOP DET Pedro PFV advise boy
 intended: 'I heard that, as for Pedro, he gave advice to the boy.'
 (Vázquez Álvarez 2011, 394)

- As predicted, predicational and specificational clauses may be embedded:

- (31) Mi k-ña'tyañ [che' maystraj-ety].
 IPFV 1ERG-know COMP teacher-2ABS
 'I know that you're a teacher.' (predicational)

- (32) Tyi y-älä [che' jiñi ajMaria aj-choñ-waj].
 PFV 3ERG-say COMP DET Maria AGT-sell-tortilla
 'He said that the tortilla-seller is Maria.' (specificational)

- Strikingly, equative clauses appear to resist embedding altogether, as in (33), expected given that topics cannot be embedded

- (33) *AjMaria tyi y-älä [(che') jiñi ajJuan, ajBrad Pitt].
 Maria PFV 3ERG-say COMP DET Juan Brad Pitt
 intended: 'Maria said that Juan is Brad Pitt.' (equative)

Plan: Copulas • Predication vs. Specification • Equation • Implications

5 Conclusion

- We have argued that predicational, specificational, and equative sentences in Ch'ol all have a different surface syntax, repeated in (34):

- (34) Three surface structures in copular sentences:

	TOPIC	FOCUS	Predicate	DP
Predicational			Predicate=ABS	DP
Specificational		DP		DP
Equative	DP			DP

- We have also argued that predicational and specificational sentences are *not* derived from one and the same small clause

- (35) Underlying differences among Ch'ol copular sentences:

	TOPIC	FOCUS	Predicate	Small Clause
Pred.			NP _{PRED}	DP _{REF} NP _{PRED}
Spec.		DP _{REF}		DP _{NON-REF} DP _{REF}

- Our arguments for the surface and underlying structure of the three types of copular clauses come from
 - agreement
 - the positioning of second position clitics
 - embeddability
- **Implications:**
 - While the discussion here has focused on copular constructions in Ch'ol, the results are consistent with work on other unrelated languages — e.g. Scottish Gaelic (Adger and Ramchand 2003) and Wolof (Martinović 2022) — which illustrate structural differences among different types of copular constructions
 - ⇒ These differences are masked in languages like English, in which factors such as a dedicated subject position and an agreeing copular verb lead to similar surface configurations
- **Future work:**
 - What is the underlying structure of *equative* constructions in Ch'ol? Why do these make obligatory use of a clause-external topic position?
 - Is the topic structure needed to break the otherwise symmetrical relationship between the two referential expressions?

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References

- Adger, David, and Gillian Ramchand. 2003. Predication and equation. *Linguistic Inquiry* 34:325–359.
- Aissen, Judith. 1992. Topic and focus in Mayan. *Language* 68:43–80.
- Armstrong, Grant. 2009. Copular sentences in Yucatec Maya. In *Proceedings of CILLA: The Conference on Indigenous Languages of Latin America-IV*. Published online by the University of Texas.
- Arregi, Karlos, Itamar Francez, and Martina Martinović. 2021. Three arguments for an individual concept analysis of specificational sentences. *Natural Language & Linguistic Theory* 39:687–708.
- Baker, Mark C. 2003. *Lexical categories: Verbs, nouns and adjectives*. Cambridge University Press.
- Bowers, John. 1993. The syntax of predication. *Linguistic Inquiry* 24:591–656.
- Clemens, Lauren Eby, and Jessica Coon. 2018. Deriving verb initial order in Mayan. *Language* 94:237–280.
- den Dikken, Marcel. 2006. *Relators and linkers: The syntax of predication, predicate inversion, and copulas*. Cambridge, MA: MIT Press.
- den Dikken, Marcel. 2006. *Relators and linkers*. Cambridge: MIT Press.
- Heggie, Lorie A. 1988. The syntax of copular structures. Doctoral Dissertation, University of Southern California.
- Heycock, Caroline. 1994. The internal structure of small clause: New evidence from inversion. In *Proceedings of the 25th North East Linguistic Society*.
- Heycock, Caroline. 2012. Specification, equation, and agreement in copular sentences. *Canadian Journal of Linguistics* 57:209–240.
- Heycock, Caroline, and Anthony Kroch. 1999. Pseudocleft connectedness: Implications for the LF interface level. *Linguistic Inquiry* 30:365–397.
- Heycock, Caroline, and Anthony Kroch. 2002. Topic, focus, and syntactic representations. In *Proceedings of the 21th West Coast Conference on Formal Linguistics*, ed. Line Mikkelsen and Chris Potts, 101–125. Somerville, MA: Cascadilla Press.
- Higgins, Francis Roger. 1973. The pseudo-cleft construction in English. Doctoral Dissertation, Massachusetts Institute of Technology, Cambridge, MA.
- Little, Carol-Rose. 2020. Mutual dependencies of nominal and clausal syntax in Ch'ol. Doctoral Dissertation, Cornell University, Ithaca, NY.
- Martinović, Martina. 2022. Reversability in specificational copular sentences and pseudoclefts. *Natural Language and Linguistic Theory* Online first.
- Mikkelsen, Line. 2005. *Copular clauses: Specification, predication, and equation*. Amsterdam: John Benjamins.
- Moro, Andrea. 1997. *The raising of predicates: Predicative noun phrases and the theory of clause structure*. Cambridge: Cambridge University Press.
- Norman, William. 1977. Topic and focus in Mayan. Paper presented at the Mayan Workshop II, San Cristóbal de las Casas, Chiapas, Mexico.
- Romero, Maribel. 2005. Concealed questions and specificational subjects. *Linguistics and Philosophy* 28:687–737.
- Rothstein, Susan. 2001. *Predicates and their Subjects*. Dordrecht: Kluwer.
- Vázquez Álvarez, Juan J. 2011. A grammar of Chol, a Mayan language. Doctoral Dissertation, University of Texas Austin, Austin, TX.