Thematic role and movement to subject position Muskogean evidence for a 'deactivation'-based account

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Introduction



- Passive of ditransitive, or unaccusative with applicative.
- If there is an EPP requirement, which argument becomes the subject?

Three patterns

- Advancing: only the higher argument can become the subject.
 - E.g. passives in (Standard) English.
- Skipping: only the lower argument can become the subject.
 - E.g. Non-actives in Albanian (McGinnis 1998:53f.).
- Symmetric (advancing or skipping): *either* argument can become the subject.
 - E.g. passives in Kinyarwanda (Woolford 1993).



N.B. The term **asymmetric** is also used, but it implies a dichotomy rather than a trichotomy so I don't use it

Explanations for the patterns

In all accounts, simple locality derives the advancing pattern 'by default'.

- (3) [SubjP **NP**Appl ... [ApplP **NP**Appl [VP V **NP**Theme]]]
 - ightarrow But to derive skipping and symmetric patterns...

Locality-based accounts:1

- The lower argument raises to an intermediate position.
- (4) [SubjP NP ... [ApplP NP Appl NP Theme [VP V NP Theme]]]
 - $\rightarrow~$ Either argument is now eligible for movement to subject position.

Deactivation-based accounts:²

• The higher argument is 'deactivated' somehow.

- $\rightarrow~$ Only the lower argument is now eligible for movement to subject position.
- 1. E.g. Ura (1996), McGinnis (1998, 2004), Anagnostopoulou (2003), Doggett (2004).
- 2. E.g. Baker (1988), Woolford (2003). See also mixed accounts, e.g. Haddican and Holmberg (2015).

Today

- Choctaw and Chickasaw (Muskogean) show all three patterns.
- What pattern do we see in a given clause?
 - $\rightarrow~$ It depends on the thematic role of $NP_{Appl}.$
- I provide a **deactivation**-based account.
 - \rightarrow Different Appl⁰ heads either *do*, *don't* or *optionally* deactivate NP_{Appl}.

6)	Appl	thematic role	Deactivates NP _{Appl} ?	
	Appl	engineer	no	
		affected experiencer		
		external possessor		
		predicative possessor		
	Appl _[D]	beneficiary	yes	
		source/location		
	Appl _{LOC}	location ₁	yes/optional	
	Appl _{SUP}	superessive	yes/optional	
	Appl _{AGAINST}	location ₂	optional	

- Finally: what is 'deactivation' anyway?
 - → I suggest fully abstract 'licensing'.³
- 3. Cf. Pesetsky (2013), Sheehan and Van der Wal (2018).

Illustration



- Appl[] does not deactivate $NP_{Appl} \rightarrow advancing$ derivation.
- $\mathsf{Appl}_{[D]}$ deactivates $\mathsf{NP}_{\mathsf{Appl}} \to \mathbf{skipping}$ derivation.

Choctaw and Chickasaw

- Non-active verbs
- Applicatives

Applicatives on non-active verbs

- Advancing constructions: when NP_{Appl} becomes the subject
- Skipping constructions: when NP_{Theme} becomes the subject
- Symmetric constructions: when either argument can become the subject

Analysis: 'deactivating' NP_{Appl}

- Against a locality-based account
- What is 'deactivation'?

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Choctaw and Chickasaw

- Western Muskogean languages
 - Choctaw: spoken in Mississippi and Oklahoma.
 - Chickasaw: spoken in Oklahoma.
- Examples and data here come largely from:
 - Choctaw: my fieldwork in Pearl River, MS and Bogue Chitto, MS, 2016-2019; published works.⁴
 - Chickasaw: Large body of published work by Pam Munro.⁵
- Examples are from Choctaw unless noted.

Important orthographical note!

 \rightarrow Underlined vowels (<u>a</u> <u>i</u> <u>o</u>) are **nasalized** (/ã ĩ õ/).

^{4.} Byington (1870), Nicklas (1974), Ulrich (1986), Davies (1986), Broadwell (1990, 2006).

^{5.} E.g. Munro and Willmond (1994), Munro (1999, 2016, 2017).

Syntactic properties

- Head-final, rigid SOV, two-way NOM/OBL case distinction:
- (8) Alíkchi-yat alla-m-<u>a</u> masaali-ch-aach<u>i</u>-h. doctor-**NOM** child-DEM-OBL heal-CAUS-FUT-TNS 'The doctor will heal that kid.'
 - Pervasive argument drop:
- (9) *pro pro pro* Im-aa-tok. DAT-give-PST

'She gave it to him.'

• Dedicated subject position (Broadwell 2006, Tyler 2020):



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Non-active verbs

Choctaw has a transitivity alternation:

(11)Hattak-m-at akakoshi awash-li-tok a. man-that-NOM egg fry-ACT-PST 'That man fried the egg.'

> Akakoshi-t alwash- a -tok b. fry-**NACT**-PST egg-NOM 'The egg (was) fried.'

[non-active]

[active]

Analysis: active/non-active Voice heads merge directly with VP.⁶



6. Tyler (2020). Cf. analyses of Greek/Hebrew-type voice systems: Doron (2003), Alexiadou and Doron (2012), Alexiadou (2013), Alexiadou et al. (2015), Spathas et al. (2015), Kastner (2016, 2019), Schäfer (2017), 12/50 a.o.

Choctaw and Chickasaw

Non-active verbs

Applicatives

- - Advancing constructions: when NP_{Appl} becomes the subject
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Applicatives

Applied arguments are indexed by **DAT** agreement or **[ABS** agreement + **APPL** prefix]:

(13)a. **DAT** agreement

> Mary-t anaak-o a-taloowa-tok. Mary-NOM me.FOC-OBL 1sg.dat-sing-pst 'Mary sang for ME.'

b. **ABS** agreement + **APPL** prefix

> pro Anaak-o sa-baa-toksal-aachi-h. me.foc-obl 1sg.abs-com-sing-fut-tns 'She will work with ME.'

Applicatives – II

Applicatives may be added to virtually any verb:

a. Unergative (14)

> Mary-t pro_{1SG} a-taloowa-tok. Mary-NOM 1sg.dat-sing-pst 'Mary sang for me.'

b. Active (i.e. transitive)

> pro_{1SG} Jimmy ishitwashóoha im-okpanii-li-tok. DAT-break.ACT-1SG.ERG-PST Jimmy toy 'I broke Jimmy's toy.'

Non-active С.

> Katie-at okkísa i-tiw-a-h. Katie-NOM door DAT-open-NACT-TNS 'The door opened on Katie.'

Note also: applied arguments have a range of thematic roles.

Structure of applicatives

- I adopt a Pylkkänenian ApplP analysis.⁷ ۲
- Appl⁰ agrees with NP_{Appl}, resulting in verbal agreement morphology.



^{7.} Pylkkänen (2002, 2008). Hi/lo distinction not relevant here, cf. Jerro (to appear).

2 Choctaw and Chickasaw

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Applicatives on non-active verbs

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Applicatives on non-active verbs

Given this input structure...



- \rightarrow What happens when the subject position needs to be filled??
 - Advancing...
 - Skipping...
 - Advancing or skipping (symmetry)...

Applicatives on non-active verbs

Most verb roots license both advancing and skipping derivations.

(17) a. Advancing

Katie-attalii-kochoofa-tok.Katie-NOMmetalDAT-bend.NACT-PST'The metal bent on Katie.'

b. Skipping

Tali-tKatie-anoi-kochoofa-tok.metal-NOMKatie-OBLDAT-bend.NACT-PST'The metal bent for Katie.'

- Previous analyses: an operation transforms (17b) \implies (17a), akin to passivization.⁸
- But observe: NP_{Appl} gets different thematic roles!

^{8.} Possessor-raising (Davies 1986, Broadwell 2006); III-subjectivalization/dative-raising (Munro and Gordon 1982, Broadwell 2006); the Oblique/Applicative Subject Rule (Munro 1999, 2016).

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Advancing constructions

Advancing: when NP_{Appl} becomes the subject.

- (18) Affected experiencer (typically maleficiary)
 - a. <u>A-car-hat</u> filíhma-tok. 1sg.dat-car-Nom turn.NACT.Hg-PST 'My car flipped over (suddenly).'
 - b. pro_{1SG} Chi-car <u>a</u>-filíhma-tok! 2SG.DAT-car 1SG.DAT-turn.NACT.HG-PST 'Your car flipped (suddenly) on me!'
- (19) 'Engineer' (in the sense of Myler 2016: an intentional indirect causer)
 - a. Aapísa-t tiwa-tok. window-NOM open.NACT-PST 'The window opened.'
 - b. M<u>i</u>ko-yat aapísa móyyoma-k-<u>a</u> <u>i</u>-tiwa-t taha-tok. chief-NOM window all.YG-COMP-OBL DAT-OPEN.NACT-PTCP finish.NACT-PST 'The boss had all of the windows opened.'

Advancing constructions - II

Advancing: when NP_{Appl} becomes the subject.

- (20) External possessor
 - a. Ókfochoosh-at illi-h. duck-NOM die-TNS 'The duck died.'
 - b. Alíkchi-yat ókfochoosh im-illi-tok. doctor-NOM duck DAT-die-PST 'The doctor's duck died.'
- (21) Predicative possessor
 - a. Ofi-yat lawa-tok. dog-NOM many-PST 'There were a lot of dogs'
 - b. Alíkchi-m-at ofi <u>i</u>-lawa-h. doctor-that-NOM dog DAT-many-TNS 'That doctor has a lot of dogs.'

Advancing constructions: summary

When added to a non-active verb, NP_{Appl}s with *these* roles become subjects:

(22) affected experiencer (23) engineer external possessor predicative possessor



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Skipping constructions

Skipping: when NP_{Theme} becomes the subject.

- (24) Beneficiary
 - a. Ak<u>a</u>koshi-m-at alwasha-tok. egg-that-nom fry.nact-pst 'The eggs were fried.'
 - b. Ak<u>a</u>koshi-m-at sippókni-m-ak-o im-alwasha-ttook. egg-that-NOM old.person-that-FOC-OBL DAT-fry.NACT-DPST 'The eggs were fried for the ELDER.'
- (25) Source/location
 - a. M<u>i</u>ko <u>i</u>-katos-at ittola-tok. chief DAT-cat-NOM fall-PST 'The chief's cat fell down.'
 - b. M<u>i</u>ko <u>i</u>-katos-at pro₃ im-ittola-tok. chief DAT-cat-NOM DAT-fall-PST 'The chief's cat fell from her.'

Skipping constructions – II

N.B. All NP_{Appl}s introduced with APPL prefixes are skipped.

- (26) Locative (*aa-*)
 - a. Ak<u>a</u>koshi-m-at alwasha-tok. egg-that-NOM fry.NACT-PST 'The eggs were fried.'
 - b. Ak<u>a</u>koshi-t aahopóoni-ya aay-alwasha-h. egg-Nom kitchen-овс Loc-fry.NACT-TNS 'The eggs were frying in the kitchen.'
- (27) Superessive (<u>o</u>-)
 - a. Ch<u>i</u>-wak nípi-yat lowa-h! 2sg.dat-cow meat-nom burn-тns 'Your steak is burning!'
 - b. Chi-wak nípi-yat aahopóoni o-lowa-ka! 2sg.dat-cow meat-Nom stove sup-burn-AFF 'Your steak is burning on the stove!'

Interim summary: applicatives of non-actives

(28)	NP _{Appl} = subject	NP _{Appl} = object	
	affected experiencer	beneficiary	
	engineer	source/location	
	predicative possessor	locative (aa-)	
	external possessor	superessive (<u>o</u> -)	
(29)	a. Advancing b.	Skipping	
	SubjP	SubjP	
	· · ·	· ·	
	NPAppl	NP _{Theme}	
	🖊 VoiceP Subj	/ VoiceP Subj	
	ApplP Voice	ApplP Voice	
	NPAppt	NP _{Appl}	
	VP Appl	VP Appl	
		\backslash	
	NP _{Theme} V	<u>NP_{Theme}</u> V	

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Symmetric constructions

Symmetric: when NP_{Appl} or NP_{Theme} can become the subject.

- (30) Chickasaw: AGAINST-applicative a
 - a. Nampanaa'-at anaako a-sa-shiiyalhchi-taha. string-NOM 1SG.ACC AGAINST-1SG.ABS-be.tied-be.done 'The string is tied onto me.'
 - b. Anaakoot nampanaa'-at a-sa-shiiyalhchi-taha.
 1sg.Nom string-Nom AGAINST-1sg.Abs-be.tied-be.done
 'I have the string tied on me.' (Chickasaw, Munro 1999:263)
- (31) Chickasaw: superessive applicative on
 - a. Hashi'-at Jan-<u>a</u> on-toomi-tok. sun-NOM Jan-ACC SUP-shine-PERF 'The sun shone on Jan.'
 - b. Jan-at hashi'-at on-toomi-tok. Jan-NOM sun-NOM sup-shine-PERF 'Jan had the sun shine on her.'

(Chickasaw, Munro 1999:263)

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Summary of applicatives of non-actives

(32)	NP _{Appl} = subject	NP _{Appl} = object	NP _{Appl} = subject or object
	affected experiencer	beneficiary	superessive (<u>o</u> -, Chickasaw)
	engineer	source/location	адаілят (<i>a-</i> , Chickasaw))
	predicative possessor	locative (<i>aa-</i>)	
	external possessor	superessive (<u>o</u> -)	

• [NP_{Appl} = **subject**] (i.e. *advancing*) derivations are explained by simple locality alone:

(33)
$$[_{SubjP} NP_{Appl} Subj^{0} [_{VoiceP} Voice^{0} [_{ApplP} NP_{Appl} Appl^{0} [_{VP} V NP_{Theme}]]]$$

[NP_{Appl} = object] (i.e. *skipping* derivations) require an extra explanation:

(34)
$$[Subj^{P} NP_{Theme} Subj^{0} [Voice^{P} Voice^{0} [Appl^{P} NP_{Appl} Appl^{0} [VP V NP_{Theme}]]]$$

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4 Analysis: 'deactivating' NP_{Appl}

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Analysis

In a skipping derivation, Appl_[D] deactivates NP_{Appl}.



How do you like them Appls?

Appl	Exponent	Agr type	θ-roles	Deactivates NP _{Appl} ?
Appl _[D]	Ø	[DAT]	Affected experiencer	No
			Engineer	
			Predicative possessor	
			External possessor	
Appl _[]	ø	[DAT]	Beneficiary	 Yes
			Source/Location	
Appl _{LOC}	aa-	[ABS]	Location	Yes
Appl _{SUP}	<u>0</u> -	[ABS]	Superessive	Yes; Chickasaw: optional
Appl _{AGAINST}	а-	[ABS]	Location ₂	Chickasaw: optional

Different Appl⁰s have:

- different morphology
- different interpretations
- different deactivation behaviors

Applied objects

When there is an **external argument**, deactivation is irrelevant.





(37) a. NP_{Appl} = affected experiencer

pro_{2SG} pro.1SG ch<u>i</u>-chokka am-okpani-t ish-tahli-tok. 2sG.DAT-house 1sG.DAT-break.ACT-ртСР 2sG.ERG-finish.ACT-рsт 'You tore your house down on me.'

b. NP_{Appl} = beneficiary

pro_{1SG} sipókni-m-a okkísa <u>i</u>-tiwwi-li-tok. old.person-that-obL door DAT-open.ACT-1SG.ERG-PST 'I opened the door for the elderly person.'

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Locality-based accounts

- In a locality-based account (of a 'symmetric' passive), NP_{Theme} moves to the specifier of AppIP.
 - NP_{Theme} and NP_{Appl} are equidistant from Spec-SubjP.⁹



• Locality-based accounts can only derive symmetry.

 \rightarrow There is no way to derive the skipping-only pattern without adding something extra.

9. (Ura 1996, McGinnis 1998, 2004, Anagnostopoulou 2003, Doggett 2004, Haddican and Holmberg 2015)

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What is 'deactivation'?



Previous accounts of what 'deactivates' NPs:

- (a) Abstract Case, via the Activity Condition¹⁰
 - Abstract inherent Case ¹¹
- (b) Valuing an Agree probe¹²
- (c) Encasement PP/functional 'shell' ¹³

Only (a) will work for Choctaw (and not straightforwardly).

^{10.} Chomsky (2000, 2001)

^{11.} Alexiadou et al. (2014), Anagnostopoulou and Sevdali (2015)

^{12.} Yuan (2018)

^{13.} Bittner and Hale (1996), Rezac (2008), Caha (2009), Alexiadou et al. (2014), Baker (2014, 2015)

Valuing an Agree probe does not deactivate NP

- *All* applied arguments (advancing and skipped-over) are targeted for verb agreement.
- (40) a. *pro*_{1SG} Ch<u>i</u>-car <u>a</u>-filíhma-tok! 2sg.DAT-car **1sg.DAT**-turn.NACT.HG-PST 'Your car flipped (suddenly) on me!' [NP_{Appl} = subj]
 - b. Ak<u>a</u>koshi-m-at an-aak-o am-alwasha-ttook. egg-that-NOM me-FOC-OBL **1SG.DAT**-fry.NACT-DPST 'The eggs were fried for ME.' [NP_{Appl} = obj]
 - $\rightarrow\,$ Therefore, participation in verb agreement cannot cause deactivation.

Deactivated NPs are not encased in null PP shells

- PP-like constituents in Choctaw do not behave like applied arguments.¹⁴
- $\rightarrow~$ Choctaw PPs are opaque for agreement:
- (41) [pp? pro_{1SG} Si-<u>a</u>shaka] ish-(*sa/*s<u>a</u>)-hik<u>í</u>ya-h-<u>o</u>? 1sg.Abs-behind 2sg.ERG-(*1sg.Abs/*DAT)-stand.Ng-TNS-Q 'Are you behind me?'
- (42) Achi-t [PP? an-aak-o si-aapakna] (*sa-/*am-)ittola-h. blanket-NOM me-FOC-OBL 1SG.ABS-ON.top (*1SG.ABS-/*1SG.DAT-)lie.NG-TNS 'The blanket is on top of me.'

^{14.} Broadwell (2006), Tyler (2020). See Baker (2014, 2015) for the pro-PP-shells side.

Deactivation as fully abstract 'licensing'

- Deactivation involves an abstract *syntactic* relation between X⁰ and YP.
- Deactivation is distinct from Agree.
 - ...which may be fully morphological anyway; cf. Bobaljik (2008)
- \rightarrow Proposal: deactivation is fully abstract 'Vergnaud-licensing', in the sense of Pesetsky (2013) and Sheehan and Van der Wal (2018).

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Conclusions

- Different Appl⁰s may or may not deactivate Spec-ApplP.
- In the absence of an external argument, presence/absence of deactivation is decisive in determining which argument moves to subject position.



ightarrow The *skipping* pattern requires deactivation in some form.

Conclusions - II

• We can taxonomize Appl⁰s based on morphological, semantic, and syntactic properties.

Appl	Exponent	Agr type	θ-roles	Deactivates NP _{Appl} ?
Appl	Ø	[DAT]	Affected experiencer	No
			Engineer	
			Predicative possessor	
			External possessor	
Appl _[D]	<u></u> ø-	[DAT]	Beneficiary	Yes
			Source/Location	
Appl _{LOC}	aa-	[ABS]	Location	Yes
Appl _{SUP}	<u>o</u> -	[ABS]	Superessive	Yes; Chickasaw: optional
Appl _{AGAINST}	а-	[ABS]	Location ₂	Chickasaw: optional

• And what is deactivation?

 \rightarrow Fully abstract licensing, unrelated to Agree or morphological case.

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Argument #1: Beneficiaries pass standard diagnostics for being high applicatives

(44) Beneficiaries are compatible with unergatives Mary-t anaak-<u>o</u> <u>a</u>-taloowa-tok. Mary-NOM me.FOC-OBL **1sG.DAT**-sing-PST 'Mary sang for ME.'

(45) Beneficiaries do not need to be recipients or goals John-at pro_{1SG} holisso chito <u>a</u>-hokli-h. John-NOM paper big **1SG.DAT**-hold.NG-TNS 'John is holding the book for me.'

Argument #2: Default word order in ditransitives is Beneficiary-Theme

(46) Sippókni-m-<u>a</u> okkisa <u>i</u>-tiwwi-li-tok.
 old.NMLZ-DEM-OBL door **DAT**-open.ACT-1SG.ERG-PST
 'I opened the door for the elderly person.'

Argument #3: Beneficiaries of non-actives show distinct PCC effects

(47) PCC signature of ABS>DAT verb nokshoopa-h. a. l-sa-DAT-1SG.ABS-be.afraid-TNS 'I am afraid of her.' b. * I-chinokshoopa-h. DAT-2SC ABS-be afraid-TNS (int.: 'You are afraid of her.') ish-inokshoopa-h С. 2sg.erg-dat-be.afraid-tns 'You are afraid of her.'

√ 1sg.abs>3.dat

X 2sg.abs>3.dat

✓ 2sg.erg>3.dat

Argument #3: Beneficiaries of non-actives show distinct PCC effects - II

(48) PCC signature of non-active verb with beneficiary

- a. * <u>I</u>-**sa** fama-h. DAT-1SG.ABS-whip.NACT-TNS (int.: 'I got whipped for him.')
- b. * <u>I</u>-**chi** fama-h.

DAT-2SG.ABS-whip.NACT-TNS (int.: 'You got whipped for him.')

c. * **ish**-<u>i</u>- fama-h

2SG.ERG-DAT-whip.NACT-TNS (int.: 'You got whipped for him.')

✗ 1sg.abs>3.dat

X 2sg.abs>3.dat

X 2sg.erg>3.dat