Laura Grestenberger Laura.Grestenberger@univie.ac.at

Categori(c)al misperception: participles, "transitive nouns", and categorizers



1. Background

The problem: categorial feature(s) of participles and other "mixed categories"

- ► Generative approaches: participial morphology spells out verbal functional heads (e.g., Asp) if movement to or agreement with a higher position (T or Agr) is blocked (Embick 2000, Bjorkman 2011, Alexiadou et al. 2015) → no need for a categorial head "Ptcp"
 - predicts that the syntax & semantics of participles depends on the amount & nature of the functional structure incorporated below the participle suffix (e.g., whether v, Voice ... are included, cf. Anagnostopoulou 2003, Alexiadou and Anagnostopoulou 2008).
- The challenge: transitive agentive "nouns" in, e.g., Vedic Sanskrit (VS), Ancient Greek (AG)
- ► apparent variation w.r.t. category (noun vs. adjective)
- ► variation w.r.t. object case (genitive vs. accusative)
- apparently violate the generalization that agent nouns are incompatible with adverbial modification and structural case objects (Baker & Vinokurova 2009), cf. Lowe 2015, 2017.

(1) Example: VS -tar - + gen./acc. objects (NB accent varies):

a. tvám dā-tá prathamó rádhasām asi you.NOM giv-er.NOM foremost.NOM bounty.GEN.PL are "You are the foremost giver of bounties." (RV 8.90.2a)
b. índro astu ... dá-tā vásu stuvaté kīráye cit Indra.NOM be.3SG.IPV giv-er.NOM goods.ACC praiser.DAT feeble.DAT even "Let Indra be ... (the) giver of goods to his praiser, even a feeble one," (RV 6.23.3a-d)

2. Data (ii)

(5) (c) is resultative/"theme-oriented", no ACC

VS		AG	
sthi-tá-	'standing'	sta-tós	'standing'
stand-ADJ-		stand-ADJ.NOM.SG.M	
ga-tá-	'gone'	-gnē-tos	'born'
go-ADJ-		bear-ADJ.NOM.	SG.M
ha-tá-	'slain'	do-tós	'granted, given'
slay-ADJ-		give-ADJ.NOM.S	SG.M

3. Analysis

The suffixes in Fig. 1 can be divided into three classes:

- ► (a): suffixes which spell out Asp and include Voice and lexical aspect, i.e., "participles".
- ▶ (b): suffixes which spell out (different types of) Voice and therefore contain Voice-related properties (i.e., ACC on objects), but not Asp.

Claim: Syntactic diagnostics (object case, adverbial modification, preverb incorporation) in precisely these languages correlate with structural properties (verbal stem and voice morphology); suggesting that "participial" suffixes can attach at different "heights" \rightarrow still no need for "Ptcp" (or "verbal adjective") as a category

2. Data (i)

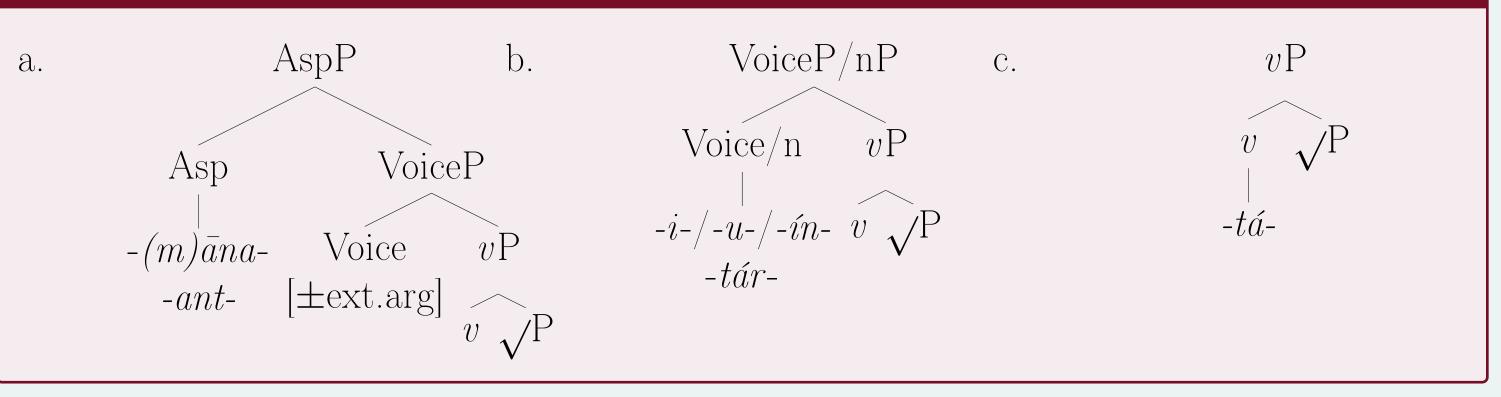
- ▶ (i) a & (ii) a: VS and AG adjectives which show verbal stem and aspectual morphology (IPFV., PFV., PERF.), Voice morphology (ACTIVE, MIDDLE), and are part of a verbal paradigm → traditionally classified as participles
- ▶ (i) b & (ii) b: Nouns/adjectives with "verbal" properties (e.g., ACC objects) which are not part of a particular paradigm → traditionally (verbal) adjectives
- (i) c & (ii) c: Verbal adjectives with a passive or patient-orient reading; resemble (past) passive participles, never take ACC objects.

Figure 1: VS and AG "participial" morphology

(:) VO O

▶ (c): suffixes which spell out (stative/resultative) v and contain neither Voice nor Asp → "theme-oriented" (≈ PPP) interpretation (cf. Anagnostopoulou 2003 & passim).

Figure 2: Structure of "participles"



- ► Asp in (a) is spelled out as active or non-active ("middle") in VS and AG depending on whether Voice is [±ext.arg] (Embick 2000, Grestenberger 2018)
- ► The (b) suffixes spell out $Voice([+ext.arg]) \rightarrow ACC$ objects, or n (in complementary distribution with Voice along the lines of Baker and Vinokurova 2009) \rightarrow GEN objects.
 - The "substantival use" with genitive objects and the GEN/ACC object variation primarily concerns the (b) class \rightarrow two lexical entries
- The (c) suffixes spell out v ("lexical Asp"); hence reduced argument structure and no ACC This analysis explains why the (a)-(b) categories pattern together w.r.t. ACC case on objects (both contain Voice) to the exclusion of (c). Moreover, these categories can be used in (reduced) relative clauses with, (6-a), and without, (6-b), overt head nouns or relative pronouns, giving the impression of agentive nominals with "verbal" properties (cf. Baker and Vinokurova 2009).

(i)	VS	Suffix	Designation	Examples	tł
	a.	$-(m)\bar{a}na$ -	middle ptcp.	bruv-āņá- 'being called', cakr-āņá- 'having made'	
		-(a)nt-	active ptcp.	bhára-nt- 'bringing', kr-ánt- 'making', y-ánt- 'going'	$(\epsilon$
	b.	- <i>ín</i> -, _{RED} -i-	(verbal) adj.	van-ín- 'desiring', cá-kr-i- 'making', já-gm-i- 'going'	
		-tár-, ´-tar-	agent noun	dá-tar-, dā-tár- 'giving; giver', kar-tár- 'doer'	
	C.	-tá-, -ná-	verbal adj.	kṛ-tá- 'made', hi-tá- 'placed', i-tá- 'gone', bhin-ná- 'split'	
(ii)	AG	Suffix	Designation	Examples	
	a.	-menos	middle ptcp.	$p^{h}\acute{e}ro-menos$ 'carrying', $lelou-m\acute{e}nos$ 'having bathed'	
		$-\bar{on}, -(a)s$	active ptcp.	$p^{h}\acute{e}r$ - $\bar{o}n$ 'carrying', i - $\acute{o}n$ 'going', $do\acute{u}$ -s 'having given'	
	b.	-tēs, -tōr	agent noun	$kl\acute{e}p$ - $t\bar{e}s$ 'stealing/thief', ep - $am\acute{u}n$ - $t\bar{o}r$ 'helping'	
	С.	-tós	verbal adj.	do -tós 'given', $k^h u$ -tós 'poured, spilled'	

- ► The (a) suffixes have the same object case as the corresponding finite forms
- ► The (b) suffixes can be used as substantives (with GEN obj.) or "verbally" with ACC obj.
- Syntax does not depend on "categorial status": the (a) and (b) suffixes pattern together w.r.t. diagnostics such as object case and adverbial modification, independent of whether they belong to a "verbal paradigm" or not.
- (2) (a)-(b) take ACC objects

(4)

- a. dhán-āni dáya-māna ójas-ā
 prize-ACC.PL distribute.IPFV-PTCP.MID.NOM.SG might-INSTR
 'distributing the prizes with might/mightily' (VS, RV 1.130.7)
- b. mah-á kárm-āņi cákr-i-ḥ
 great-ACC.PL deed-ACC.PL do_{RED}-ADJ-NOM.SG
 'doing great deeds' (VS, RV 9.88.4)

- b)a.hoìdèp^héro-nt-esgêntekaìREL.NOM.PLPARTbring.IPFV-PTCP.ACT-NOM.PLearth.ACCandalsohúdōr
 - water.ACC
 - 'who (were) bringing earth and water.' (AG, Hdt., Hist. 7.131)
 - b. taránir ná árvā vyānaś-í ródasī
 overtaking.NOM.SG like steed.NOM traverse-ADJ.NOM.SG world.ACC.DU
 'like an overtaking steed, traversing the two world-halves' (VS, RV 3.49.3)

Diachrony:

- Participial affixes tend to develop from (denominal) adjectival affixes (Haspelmath 1994), demonstrably the case for most of the affixes in Fig. 1.
- ▶ The (b) affixes can lose functional structure (→ agent nouns) or gain functional structure
 → participles, periphrastic tense constructions, e.g.:
- (7) kar-tā-smi 'I will do' (Classical Sanskrit periphrastic future) do-NOM.AG-COP.1SG.PRES

4. Conclusion and implications

- Although languages like VS and AG have a broad variety of (de)verbal adjectives, generalizations w.r.t. their properties are possible and have cross-linguistic analogues.
- Syntactic diagnostics (object case, adverbial modification, etc.) can be shown to correlate with particular structural features, independent of whether a given deverbal formation has traditionally been classified as "participle" or "adjective" → no need for special assumptions w.r.t. "category".

- (3) (a)-(b) can be modified by adverbs
 - a. eũ naió-menon ptolíet^hron
 well inhabit.IPFV-PTCP.MID.ACC citadel.ACC
 'a well-inhabited citadel' (AG, Homer, *Il.* 1.163–4)
 b. ni-jaghn-í-r ójas-ā
 down-strike_{RED}-ADJ-NOM.SG might-INSTR
 'striking down mightily' (VS, RV 9.53.2)
- The (a) and (b) suffixes differ in that only the (a) suffixes are compatible with all syntactic contexts in which the corresponding *finite* forms occur, including passive, (4). The (b) categories tend to be (ergative) "subject-oriented".
 - lēí-ouempipra-mén-ouhupò têsstratiêscrop-GENburn.IPFV-PTCP.MID-GENbythe.GENarmy.GEN'(when)the crop was beingburnedbythe army'(AG, Hdt., Hist. 1.19.1)

► Future work: More detailed studies of different (VS, AG, ...) corpora, additional diagnostics.

References

Alexiadou, A., and E. Anagnostopoulou. 2008. Structuring participles. In Proceedings of the 26th West Coast Conference on Formal Linguistics, 33-41. Somerville, MA: Cascadilla.
Alexiadou, A., E. Anagnostopoulou, and F. Schäfer. 2015. External arguments in transitivity alternations: a layering approach. OUP. Anagnostopoulou, E. 2003. Participles and voice. In Perfect Explorations, 1-36. Berlin: Mouton de Gruyter.
Baker, M., and N. Vinokurova. 2009. On agent nominalizations and why they are not like event nominalizations. Language 85/3:517-556.
Bjorkman, B. 2011. BE-ing Default: The Morphosyntax of Auxiliaries. Doctoral Dissertation, MIT.
Embick, D. 2000. Features, syntax, and categories in the Latin perfect. LI 31/2:185-230.
Grestenberger, L. 2018. Deponency in finite and nonfinite contexts. Language 94/3:487-526.
Haspelmath, M. 1994. Passive participles across languages. In Voice: Form and Function, 151-77. Amsterdam: Benjamins.
Lowe, J. J. 2015. Participles in Rigvedic Sanskrit. The Syntax and Semantics of Adjectival Verb Forms. OUP.
Lowe, J. J. 2017. Transitive nouns and adjectives: evidence from early Indo-Aryan. OUP.