## Hossep Dolatian (Stony Brook University)

**Introduction:** Persian (PS), Turkish (TU), and Western Armenian (WA) share many features in their syntax and prosody. I show that their differences in nuclear stress placement in broad focus contexts are a) due to common universals in prosody, and b) language-specific constraints rankings:

- Undominated
  - Head-Comp: Stress the complement of the head instead of the head
  - Arg-Zone: Stress doesn't go outside the verb (V) and its argument into the subject (S)
- Variably ranked
  - \*Spec-DO: PS bans stressing definite direct objects, the others do not
  - L/R-Arg: PS stresses the leftmost, TU+WA the rightmost argument in ditransitives
  - MADV and SADV: PS stresses any manner adverb (MADv) while TU+WA only stress morphologically simple manner adverbs (SAdv). Their location varies across the lects.

The differences can't be reduced to simple syntactic factors like phase position but are cross-modular and/or arbitrary. Data is collected from multiple sources coupled with personal elicitations. PS: (Mahjani, 2003; Sadat-Tehrani, 2007; Kahnemuyipour, 2009; Hosseini, 2014); TU: (Üntak-Tarhan, 2006; Kamali, 2011; Günes, 2015; Nakipoğlu, 2019); WA (Sigler, 1997; Khanjian, 2013).:

**Transitive Vs**: The 3 lects have SOV order. The direct object (DO) can be a bare noun (1). It is stressed, pseudo-incorporated, and interpreted as a generic noun. Non-specific indefinite DOs behave the same (2). All 3 lects have subject-drop and object-drop. Without an DO, stress retracts to the V (3). I analyze these facts with the *descriptive* constraints: HEAD-COMP and ARG-ZONE.

	1			2		3		4		5	
	S	DO	V	Indf DO	V	S	V	Def DO	V	Indf Spec DO	V
PS	Ali	$\underline{\text{ketâb}}$	xund	yek ketâb	xund	Ali	$\underline{\text{xund}}$	ketâb-râ	$\underline{\text{xund}}$	yek ketâb-râ	$\underline{\text{xund}}$
WA	Ali-n	<u>kirk</u>	gartats	kirk mə	$\widehat{gartats}$	Ali-n	gartats	<u>kirk-ə</u>	gartats	<u>kirk mə</u>	gartats
TU	Ali	kitap	okudu	bir kitap	okudu	Ali	okudu	kitab-1	okudu	<u>bir kitab-ı</u>	okudu
	'Ali read books'			'Ali read a book'		'Ali read (books)'		'Ali read the book'		'Ali read a (certain) book'	

The lects vary with definite DO (4). In PS, the DO is unstressed. Stress is instead on the V. But in TU+WA, the Def DO keeps stress. Specific indefinites behave the same (5). This difference is not due to different semantics, pragmatics, or syntax. Semantically, proper nouns are marked as definite in DO position (6). They are stressed in TU+WA, but not PS. Pragmatically, if a Def DO is contextually new, it is stressed in TU+WA but not PS (7). Syntactically, Def DOs are have been argued to be structurally higher than bare DOs in all 3 lects based on common heuristics like binding, reference, scrambling, coordination, etc. The difference between the lects is thus arbitrary and due a variably ranked constraint \*SPEC-DO.\* Further evidence for the arbitrariness comes from morphology. Certain verbs assign quirky case to their complements, marked by a dative case suffix a dative-assigning preposition. Quirky definite objects are stressed in all 3 lects.

	6			7, adapted from	8				
				night it snowed'					
	S	Name	V	S	New Def DO	V	Quircky-O	V	
PS	Ali	Mariam-râ	$\underline{\mathrm{did}}$	Shahrdari dare	rah-râ	tamiz mikone	Ali	<u>be ketâb</u>	negah kard
WA	Ali-n	$\underline{\text{Mariam-i-n}}$	desav	garavarutjun-ə	poyots-ə	gə-makre-gor	Ali-n	<u>kirk-ə</u>	najetsav
$\mathrm{TU}$	Ali	Mariam-'ı	gördü	Belediye	yol-u	aç-ıyor	Ali	$\underline{\text{kitab-a}}$	baktı
	'Ali saw Mariam'			'The gover	'Ali looked at the book'				

**Ditransitive Vs**: Ditransitives show more arbitrary difference. Stress is leftmost in PS, rightmost in TU+WA. In all 3 lects, the default order is S-IO-DO-V when the DO is bare and the IO is indefinite (9). Stress is on DO in WA+TU, but IO in PS. The IO's (in)-definiteness doesn't matter when the DO is bare (10). If the DO is definite or even specific indefinite, then word-order can vary between S-IO-DO-V (11) and S-DO-IO-V (12). In TU+WA, both orders are fine but stress is on the rightmost argument (11,12). In PS, the order must be DO+IO (11) and the Def IO is stressed.

Complex Predicates: Complex predicates (CPrs) CPrs consist of a non-verb (NV) and light verb (LV); they select a DO. If the DO is bare, it's stressed (13). If definite, stress retracts in PS to the NV not the V (14). With a dropped DO, stress retracts to the NV in all 3 lects (15). This shifting is not due to the directionality parameter in ditrasitives. It is because the non-verb is the complement of the verb, while the DO is the complement of the NV+LV.

Manner adverbs: MAdvs show signs of construction-specific phonology. In PS, MAdvs are stressed and placed after Def DOs (17), but before IOs and bare or indefinite DOs (16). In contrast, TU+WA differentiate between morphologically simplex vs complex adverbs. Complex adverbs pattern like high adverbs (I don't show them); SAdvs are stressed. SAdvs can be preverbal in TU+WA (18), pre-bare object in TU but not WA (19). SAdv's can't break a V from a bare DO in TU+WA (19), or from a non-specific indefinite DO in TU but can in WA (20). They can break a V from a definite DO (21). These arbitrary placement restrictions form a cline across the 3 lects.

Further generalizations, similarities, and differences are found in sentential adverbs, intransitives, and passivization. In a larger study, I include Eastern Armenian which patterns between WA+PS. I do not include it here for space—References: [1] Günes, G. (2015). Deriving prosodic structures. Ph. D. thesis, University of Groningen. [2] Hosseini, S. A. (2014). The phonology and phonetics of prosodic prominence in Persian. Ph. D. thesis, Tokyo University of Groningen Studies. [3] Kahnemuyipour, A. (2009). The syntax of sentential stress. Number 25 in Oxford Studies in Theoretical Linguistics. Oxford: Oxford University Press. [4] Kamali, B. (2011). Topics at the PF interface of Turkish. Ph. D. thesis, Harvard University. [5] Khanjian, H. (2013). (Negative) concord and head directionality in Western Armenian. Ph. D. thesis, Massachusetts Institute of Technology. [6] Mahjani, B. (2003). An instrumental study of prosodic features and intonation in modern farsi. Master's thesis, University of Edinburgh. [7] Nakipoğlu, M. (2009). 1253–1280. [8] Nakipoğlu, M. (2019). Towards a model of the relation between prosodic structure and information structure. Lingua 119(9), 1253–1280. [8] Nakipoğlu, M. (2019). Towards a model of the relation between prosodic structure and object displacement in Turkish. In Word Order in Turkish, pp. 261–284. Springer. [9] Sadat-Tehrani, N. (2007). The intonational grammar of Persian. Ph. D. thesis. [10] Sigler, M. (1997). Specificity and agreement in standard Western Armenian. Ph. D. thesis, Massachusetts Institute of Technology. [11] Üntak-Tarhan, A. (2006). Topics in syntax-phonology interface in Turkish: Sentential stress and phases.

<sup>&</sup>lt;sup>1</sup>Üntak-Tarhan (2006) speculates that PS raises Def DOs to spec-vP while TU raise to a lower position like spec-AspP. But Nakipoğlu (2019) shows that this difference is syntactically unmotivated.