Workshop on Prosody and Prosodic Interfaces in Japanese and Korean Univ. of Hawai'i, Oct. 11, 2017

Exploring the prosody-syntax-focus interface in Yanbian Korean

Sun-Ah Jun UCLA jun@humnet.ucla.edu

Introduction: Prosodic Phrasing

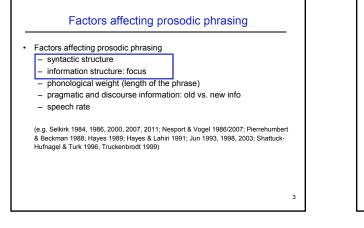
- · Grouping of words marked by (supra)segmentals
- Different sizes of phrasing: prosodic units
- Prosodic units are hierarchically organized

higher Intonational phrase

Intermediate phrase (or major phrase) phonological phrase (or accentual phrase, minor phrase) Phonological word Foot

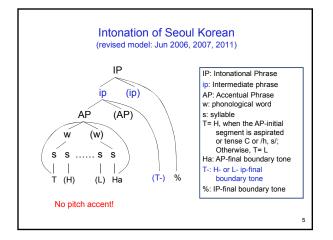
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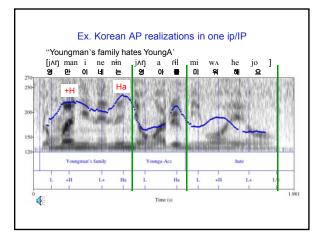
Syllable / Mora

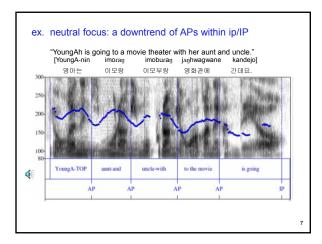


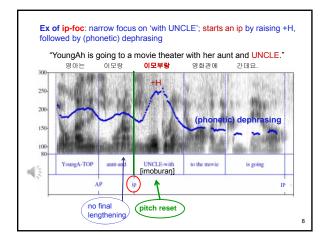
syntax-marking vs. prominence-marking

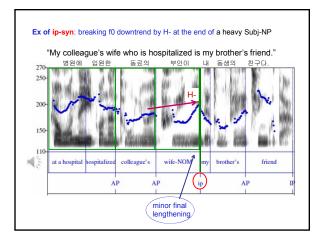
- Prosodic phrasing provides information on
 - Syntactic structure
 - Prominence relations among words
- So far, more attention given on the presence/absence of a prosodic boundary, and not much on the nature of prosodic phrasing
- Do the syntax-marking vs. focus-marking prosodic phrases have the same phonological properties?
- See the Intermediate Phrase (ip) in Seoul Korean

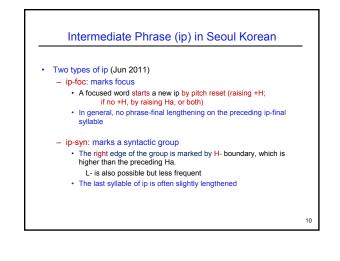


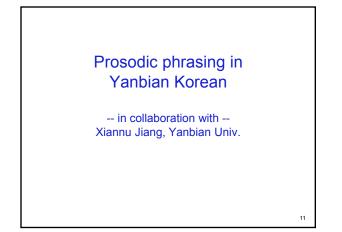














Lexical prosody of Yanbian Korean (Jung 1995, H. Jun 1998, C. Ito 2014)

- a variety of Hamgyung dialect, a tonal (lexical pitch accent) dialect Tonal patterns of lexical words
 - monosyllabic words: H or L
 - disyllabic words: HL, LH, L(H)
 - trisyllabic words: HLL, LHL, LLH, LL(H)
 - trisyllabic words: HLL, LHL, LLH, LLH, LL(H)
 4 syll or longer nouns: H on wd-final or penultimate syllable
- Phonological word (lexical item + case marker/postposition) is realized with one lexical H tone
 - all content words are lexically accented
 - some case marker/postpositions are also lexically accented
 - when multiple morphemes form one phonological word, only the last morpheme's H tone survives for nouns, but for verbs, the initial morpheme's H tone tends to survive.

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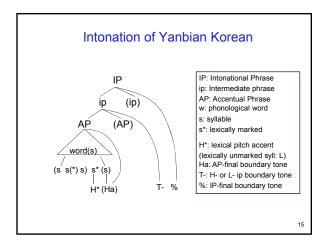
- Each word can form one Accentual Phrase (AP) in careful speech but an AP often has more than one word.
- An AP can have one lexical H (H*) or an AP-final H boundary tone (Ha) or both, but cannot have two lexical H's
 - H* tends to be higher than Ha - Ha is sometimes realized as mid H

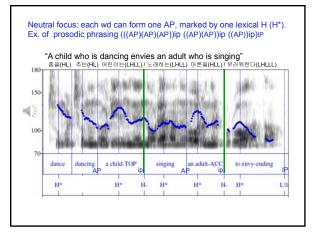
AP formation when a noun is a syntactic head:

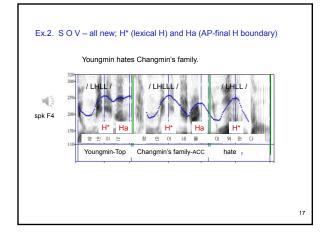
In casual speech, prenominal modifiers (e.g., adjective, possessive N, relative clause) can form one AP with the following head noun

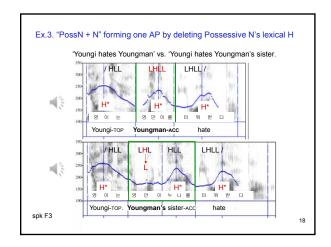
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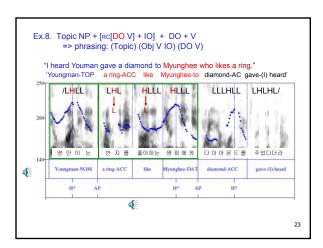
- In these cases, only the head noun's lexical H survives
- => rightmost H dominant

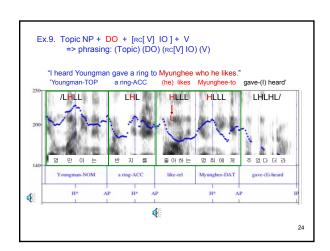


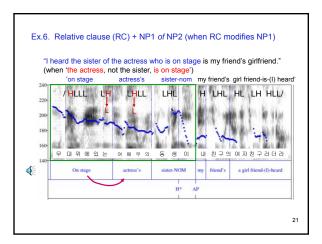


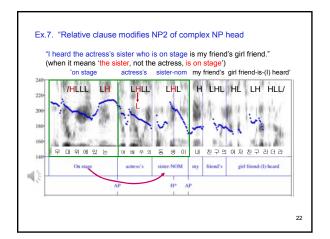


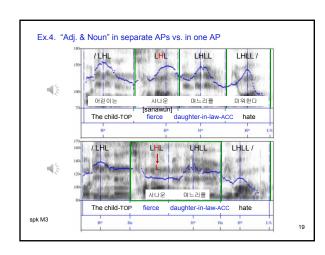


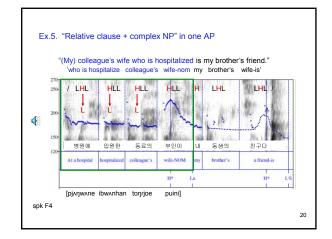


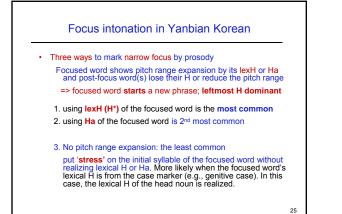


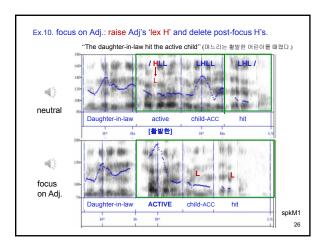


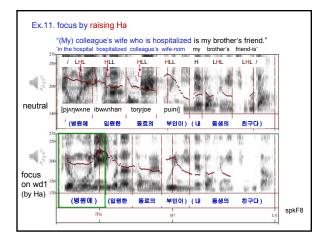


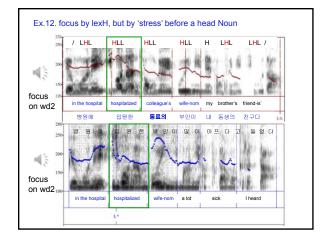


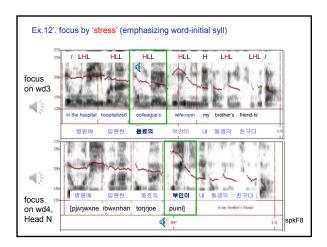


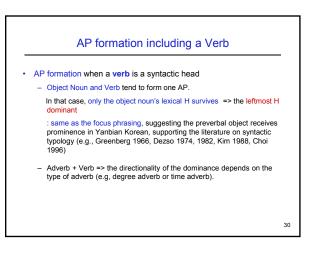


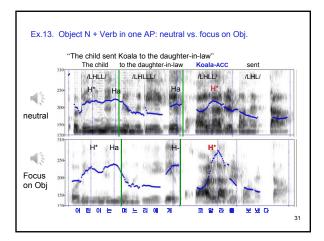


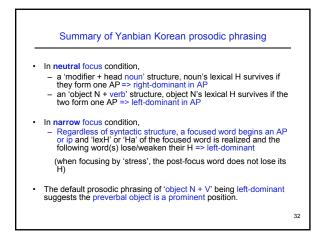












Discussion

- · Common between Seoul Korean and Yanbian Korean
 - Both syntax and focus affect prosodic phrasing
 - Focus-marking prosodic phrase differs from syntax-marking prosodic phrase phonologically
 - In both dialects, focus-marking phrasing is cued by raising the H tone on the focused word even though the phonological status of the H tone is different between these two varieties

syntax-marking vs. focus-marking prosodic phrase in other languages

- The effect of syntax on prosodic phrasing seems to be similar across languages: match boundaries of major syntactic units with the boundaries of prosodic units (e.g., Nespor & Vogel 1986/2007; Selkirk 2000, 2011; Truckenbrodt 1999)
- But, languages differ in ways to mark prominence prosodically
 Head prominence vs. edge-prominence in prosodic typology (Jun 2005, 2014)

Typology in types of prominence marking (Jun 2005, 2014) • Head-prominence language e.g., English, German, Greek, Spanish - word-prominence is cued by pitch accent on the 'head' (stress or lexical pitch) - a focused word receives nuclear pitch accent, the most prominent word ("head") in a phrase. • Edge-prominence language

- e.g., Korean, Mongolian, W. Greenlandic - has no lexical prosody. Word-prominence is cued by phrasal tones, marking the edge(s) of a word. - a focused word comes at the beginning/end of a larger phrase.
- Head/edge-prominence language: combination of head- and edgeprominence e.g., French, Bengali, Turkish, Georgian

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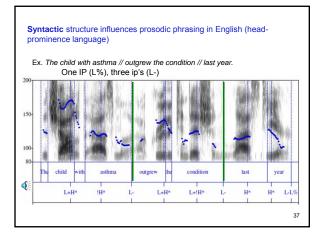
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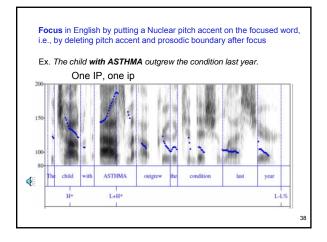
Syntax vs. prominence marking in head- & edge-prom lgs

- In (Seoul) Korean-type edge-prominence languages, both syntax and prominence are marked by prosodic phrasing.
- In English-type head-prominence languages, prominence is marked by pitch accent while syntactic structure is marked by boundary tone.
 Focus removes a phrase boundary after a focused word but in general does not create a new prosodic phrase boundary at the edge of a focused word.
- Therefore, less interaction in prosodic phrasing due to its function (syntax vs. focus-marking)
- In head/edge-prominence languages (e.g., Bengali, Yanbian Korean), the interaction seems to vary depending on how simple the inventory of 'head' is.

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Syntax vs. prominence marking in head/edge-prom language

- ex. Bangladesh Bengali (Khan 2008, 2014)
- · syntactic grouping is marked by a phrase-final boundary tone
- word prominence is marked by pitch accent (typically L*)
- focus is marked in three ways depending on the type of focus

 L*+fH for corrective/wh-answer focus and fH* for surprise focus
 - fHa AP boundary tone for encliticized focus
 - Dephrasing & deaccenting after focused word
 - Thus, focus is marked by pitch accent and affects phrasing, but a focused word does not start or end a big phrase as in English.

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ex. Kolkata Bengali (Hayes & Lahiri 1991)

word prominence by pitch accent L* (typically) focus is marked by inserting a Hp boundary tone after the focus domain

Conclusion Like Seoul Korean, prosodic phrasing in Yanbian Korean marks syntactic grouping and focus, and intonational marking of prosodic phrase differs due to its function and syntactic head type. Syntactic grouping: which lexH survives at a phrasal level depends on the syntactic head of the phrase • Focus-marking: the H tone of a focused word become a phrase-initial H, regardless of the type of syntactic head. Furthermore, focus-marking prosodic phrase shows pitch range expansion phrase-initially, followed by pitch range compression Interaction in prosodic phrasing due to its function (syntax vs. focus) is expected to occur in languages where prominence is marked by edge, but not by head · More research needed to confirm this prediction across languages.



References

- Choi, Hye-won. 1996. Optimizing Structure in Context: Scrambling and Information Structure. Ph.D. Dissertation, Stanford University.
 Dezsoi, L. 1974. Topics in syntactic typology. Lingüistica Generalia 1, 191-210. Prague: Charles Univ.
 Dezsoi, L. 1982. Studies in Syntactic Typology and Contrastive Grammar. The Hague: Mouton.
 Greenberg, J. H. 1966. Some universals of grammar with particular reference to the order of meaning elements. In J. H. Greenberg (ed.) Jniversals of Language. 72-113. Cambridge: The MIT Press.
 Hayes, B. and A. Lahini. 1991. "Bengali intonational phonology". Natural Language and Linguistic Theory 9: 46-99.
 Ibo. C. 2014. Loanword accentuation in Yanbian Korean: A weighted-constraints analysis. NLLT. 32: 537-582.

- nesseuro 32(2) pp. 219-249
 Jun, S.A. 2005. "Prosodic Typology," in S.-A. Jun, ed., Prosodic typology: Phonology of intonation and tone. 410-58. New York: Oxford University Press.
 Jun, S.-A. 2006. "Intonational Phonology of Seoul Korean Revisited", Japanese-Korean Linguistics 14, Stanford: CSLI. Pp. 15-26.

- Stanford: CSLI. Pp.15-26.
 Jun, S.-A. 2007 "The Intermediate Phrase in Korean Intonation: Evidence from Sentence Processing", in Tones and Tunes: Studies in Word and Sentence Prosody, eds. by C. Gussenhoven and T. Riad. Mouton de Gruyder
 Jun, S.-A. 2011. "Prosodic Markings of Complex NP Focus, Syntax, and the Pre-/Post-Focus Sting". In Proceedings of the 28th WCCFL, pp. 214-230.
 Jun, S.-A. 2014. "Prosodic Typology: By Prominence Type, Word Prosody, and Macro-rhythm", in Surv.A. Jun (ed.) Prosodic Typology. By Prominence Type. Word Prosody, and Macro-rhythm", in Surv.A. Jun (ed.) Prosodic Typology. II: The Phonology of Intonation and Phrasing. Oxford University Press. pp. 520-539.

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- Jung, P. (정판룡) 1995. 2004/i (History of Yanbian Koman), 민족훈판사, 중국 북격시.
 Kahn, S. 2008. Intransional phonology and focus prosody of Bengali. Phd Dissertation, UCLA.
 Kahn, S. 2014. The intonatorial phonology of Bangladesh Standard Bengali. Sun-Ah Jun (ed.) Prosodic Typology II: The Phonology of Intransion and Phrasing, Oxford Univ, Press, pp. 81-117.
 Kin, A. H-O. 1988. Preverbal focusing and type XXIII languages. In Michael Hammond, Edith A. Moraveski, and Jessica R. Witht (eds.) Studies in Syntactic Typology. John Benjamins Publishing Co. pp. 147-169.
 Kim, Y. (2020) 2011. *JEEZ 전 즉 Ji* (History of Yanbian Korean), 연변인민호판사, 중국 길림성 연길시.
 Nesport, M. & Vogel, I. 1986/2007. Prosodic Phonology.
 Pierrehumbert, J., Beckman, M., 1988. Japanese Tore Structure. MIT Press, Cambridge, MA.
 Selkink, E. 1996. On derived domains in sentence prosody. Phonology Yastrokor 3, 371-405.
 Selkink, E. 1996. On derived domains in sentence prosody. Phonology Testing: The case of Englishing. Tores and Tunes: Studies In Word and Sentence Prosody. Col. 5, 1005.
 Selkink, E. 2007. 'Contrastive focus, metrical prominence, and prosodic phrasing. The case of Englishing. Thores: And Tunes: Studies In Word and Sentence Prosody. Col. 5, 005.
 Selkink, E. 2011. The syntax-phonology interface. In: Goldsmith, J., Riggle, J., Yu, A. (Eds.), The Sentuck-Humagel S. & Turk, A. 1986. 'A Prosody Tutorial for Investions of Auditory Sentence Processing. Journal of Psycholing Justice Researd DE. 1932-247.
 Truckenbrodt, H., 1999. On the relation between syntactic phrases and phonological phrases. Linguistic Inquiry 30 (2), 219-255.