

Introduction: Prominence in French

- Prominence in French is conventionally described as being assigned to the final syllable of phrases (no lexical stress), as in (1) [e.g. 3, 7, 9, 10]
- However, data from across the French-speaking world show that *prominence shift* is frequent (see fig. 1), as in (2) [1, 6, 12]
- Why would a language consistently described as marking phrasal domain edges so often deviate from this pattern?
- (1) La future paTRONNE (2) Le joli GARçon 'The future boss' 'The handsome boy'



Figure 1: Locations in Eastern Canada (left) and Europe (right) where empirical studies demonstrate non-final prominence.

Question & Predictions What motivates prominence shifting?

- Heavy syllables attract prominence
- Stems signaled through greater prominence



Figure 2: The predicted contours based on prominence shifting.

Methods

- Read passage from the *Phonologie du français* contemporain corpus [4, 5, 13], 11 native French speakers from Saguenay, Québec
- Force-aligned [11], 1368 polysyllabic AP-final words extracted and measured (pitch max. and range, rhyme duration and max. amplitude)
- Mixed-effects linear regression with by-speaker and by-word random slopes and intercepts to predict the *difference* between last two syllables

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Figure 5: Results for the presence of a morphological boundary between the penult's vowel and the final syllable's vowel.



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Discussion

Future work

- expected

Bibliography

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Results: Interacting final-syllable weight

 Syllables with both a coda and a heavy vowel have significantly longer durations and higher amplitudes than syllables with only one of the

• Those syllables also have a trend for larger pitch

• Weight affects the prominence cues in the expected direction, consistent with weight effects motivating prominence shifts

• There appears to be a trade-off; increases to one syllable's acoustic cue values often seems to be associated with decreases to the other syllable's • We postulate that prominence is a pitch accent attracted to heavy syllables

• In French, heavy vowels in final syllables are only phonetically long if the syllable is also closed [2, 14], which prominence predicts

• Overall, base-final syllables are more prominent • Separation of acoustic cues, meaning that the suprasegmentals can simultaneously offer morphological and phonological information

• Test other dialects: rates expected to vary by region, but the same patterns predicted Distinguish types and shapes of morphemes • Examine spontaneous speech: larger differences and interactions with phonological processes

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