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In this talk I will present my recent dissertation work examining how vowel quantity is produced, enhanced, and perceived by native Norwegian speakers. Phonological quantity is when a language utilizes long and short segments to encode lexical distinctions, in this case long and short vowels. The primary, obligatory cue to quantity is duration, yet it has been shown time and time again that there are a number of enhancing secondary cues that covary with duration. Yet, the role that these cues play in the production and perception of quantity is not entirely understood, especially in an underexplored language such as Norwegian. I will present my findings and highlight how the cues used by speakers in production and listeners in perception do or do not align and the theoretical implications thereof. My findings will be discussed in terms of how they apply to clear speech, cue weighting, and the production-perception link.