



## Investigation of 3D tongue shape for model control

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It is widely accepted that for coarticulation, there are two effects, anticipation, and carry over. The anticipation effect reflects the planning of the articulatory targets by considering their contexts, while the carry over effect reflects how the mechanical properties of speech apparatus influence the realization of the articulatory movements. These two effects interweave during the process of speech production, and are difficult to be evaluated from empirical data directly. This is one of the obstacles for understanding the mechanism of speech production. Therefore, a faithful physiological articulatory model is required to be able to separate these two effects to help us understand the mechanism of speech production.

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