An argument for severing stress from phonology

Ezer Rasin
(MIT)

According to the consensus view in generative linguistics, multiple phonological computations including the computation of word stress, tone, and segmental processes are carried out in a single cognitive module known as ‘phonology’. I present an argument for a modular decomposition of phonology, where the computation of stress is carried out in a separate module with a limited interaction with the rest of phonology.

The argument is based on what I refer to as the Stress-Encapsulation Universal. Drawing on observations by de Lacy (2006) and Blumenfeld (2006), I propose a universal asymmetry between stress and segmental processes. Segmental processes are often sensitive to the position of stress: in American English, for example, [t] is flapped between a preceding stressed vowel and a following unstressed vowel, as in poliDical vs. politician; but the computation of stress is never directly sensitive to segmental information: stress patterns like ‘stress the rightmost vowel followed by a velar’ are unattested. The unattested patterns can be excluded in the modular architecture if the input to the stress module excludes representations of segmental features.

I will discuss the nature of the interaction between the stress module and the rest of phonology and will compare the predictions of the modular architecture to the predictions of non-modular accounts of encapsulation within serial or parallel architectures.