

The influence of age on estimating sound change acoustically from longitudinal data

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The overall purpose of the talk will be to explore the ways in which phonetic change can be disentangled from the influences of increasing age using longitudinal speech data recorded at yearly intervals from the same speakers. The presentation will seek to establish commonalities in how age influences both the fundamental frequency and the vocal tract resonances (formants) across speakers in two languages and across gender. These age-related influences will be discussed in relation to quantifying fine-grained phonetic changes that will be shown to take place over several decades in some of the speakers.