

An introduction to electropalatography and electromagnetic articulography

Marija Tabain

Macquarie University

This tutorial provides an introduction to two of the most commonly used tools in articulatory phonetics: electropalatography (EPG) and electromagnetic midsagittal articulography (EMMA). These two techniques provide very different views of supralaryngeal articulation: EPG reports contact between the tongue and the entire hard palate, while EMMA returns movement trajectories for selected points on the tongue, lips or jaw in the midsagittal plane. Emphasis in this tutorial will be on the advantages and limits of each technique; the sorts of studies for which each technique is best suited; and on ways of quantifying the data that are returned by each system. An overview of how each system works will be provided, as well as examples of returned data (with their concomitant problems!). This tutorial will be aimed at people who are considering collecting EPG or EMMA data themselves, and at people who would like to be able to better interpret EPG and EMMA data when it is presented in talks or papers.