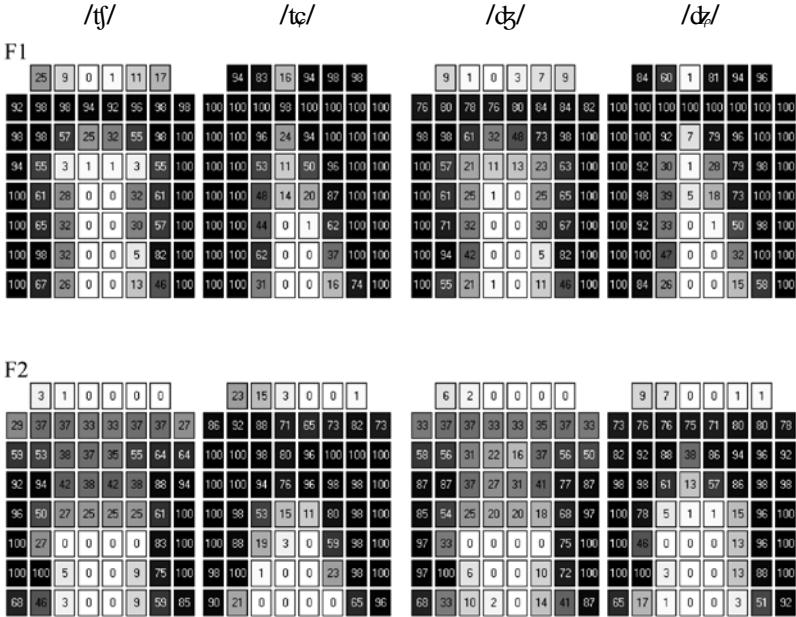


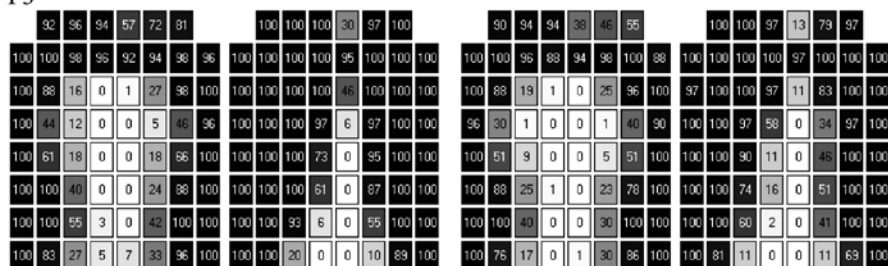
Appendix 1

Average EPG frames for each affricate produced by each speaker. Each electropalatogram is averaged across all repetitions and all vowel contexts at the point of maximum contact during the affricate production. All maximum contact points occurred during the occlusion phase of the affricate. Different shades of grey indicate different percentages of each electrodes' activation, with the darker shades indicating a higher percentage of activation. The numbers in each square quantify these different percentages.

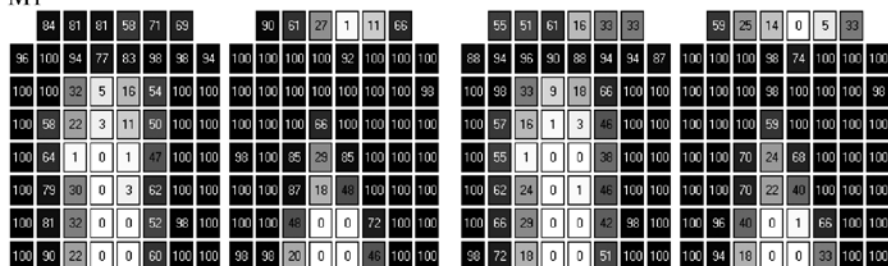


*An EPG and perceptual study of the postalveolar and palatal affricate*

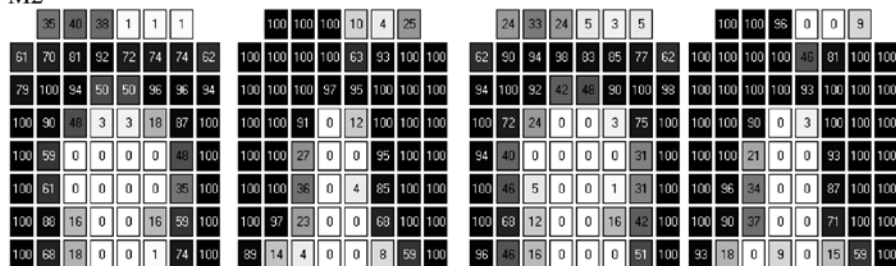
F3



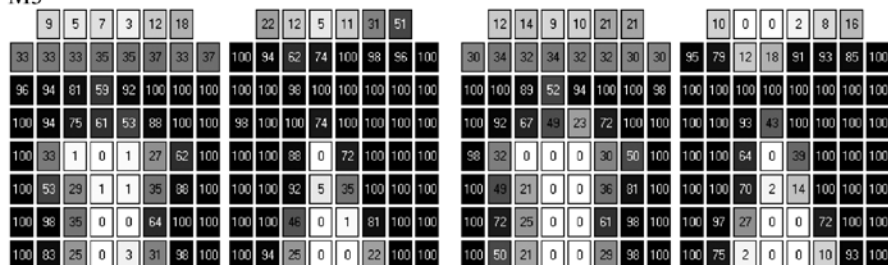
M1



M2



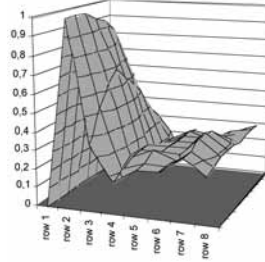
M3



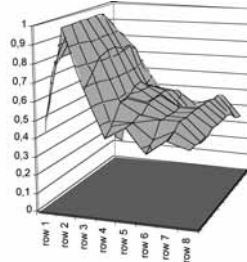
Appendix 2

Amount of contact (vertical axis) in each row of electrodes (horizontal axis) throughout affricate duration (z-axis) in vowel /a/ context in speaker F1. Amount of contact was measured at a number of equidistant sample points. The number of sample points ( $nsp$ ) for each affricate was determined using the formula  $nsp = \frac{t}{10}$ , in which  $t$  is the duration of the shortest production of an affricate in milliseconds and  $10$  represents the distance between each EPG sample determined by the sampling frequency (100 Hz).

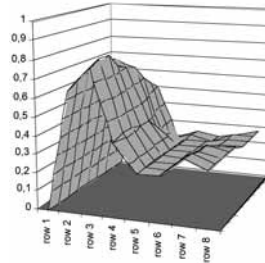
/tʃ/



/tʃ/



/dʒ/



/dʒ/

