How does the brain acquire phonetic and phonological knowledge and where is it stored?

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In this talk our work concerning a neurocomputational model on speech acquisition, production, and perception (which started in 2005) will be summarized. (1) The structure of the model will be reviewed briefly. (2) Main outcomes from six computer simulation experiments on speech acquisition (two experiments on prelinguistic babbling and four experiments on language-specific imitation) will be summarized and (3) hypotheses concerning the representation of the acquired speech knowledge in different brain regions will be discussed.

Thus it is my intention to give you an intuitive understanding of some basic processes in phonetic and phonological knowledge acquisition and to discuss some hypotheses concerning related brain areas where these acquisition processes may take place and where the acquired knowledge could be stored.

Literature is available on http://www.speechtrainer.eu -> publications