



Popular science summary of the PhD thesis

PhD student	Søren Asp Fuglsang
Title of the PhD thesis	Characterizing neural mechanisms of attention-driven speech processing
PhD school/Department	DTU HEARING SYSTEMS/DTU ELEKTRO

Science summary

This thesis investigated how selective attention affects single-trial electroencephalography (EEG) responses to speech. Work from EEG studies in normal-hearing (NH) and hearing-impaired (HI) listeners is presented. It is explored how different task demands and listening scenarios affect EEG responses to speech. It is shown that the auditory attentional selection of NH and HI listeners can be decoded from EEG data with reasonably high classification accuracies in different listening environments. Overall, the work presented in this thesis suggests that EEG-based attention decoding may have relevance for future brain-computer interface systems.



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Please email the summary to the PhD secretary at the department