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Novel applications of objective measures in cochlear implants

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List of publications

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Published

Dong, Y., Briaire, J.J., Siebrecht, M., Stronks, H.C., Frijns, J.H.M. (2021). Detection of Translocation of Cochlear Implant Electrode Arrays by Intracochlear Impedance Measurements. Ear Hear. 42, 1397–1404.

Dong, Y., Briaire, J. J., Biesheuvel, J. D., Stronks, H. C., & Frijns, J. H. M. (2020). Unraveling the Temporal Properties of Human eCAPs through an Iterative Deconvolution Model. Hearing Research, 395, 108037.

Dong, Y., Stronks, H. C., Briaire, J. J., & Frijns, J. H. M. (2021). An iterative deconvolution model to extract the temporal firing properties of the auditory nerve fibers in human eCAPs. MethodsX, 2021, 101240, ISSN 2215-0161.

Paper submitted

Dong, Y., Briaire, J. J., Stronks, H. C., & Frijns, J. H. (Under review). Predicting speech performance in individuals with cochlear implants, based on temporal firing properties of auditory nerve fibers derived from eCAPs. Ear and Hearing. 2021

Dong, Y., Briaire, J. J., Stronks, H. C., & Frijns, J. H. M. (Under review). Short and long-latency components of the eCAP reveal different refractory properties. Hearing Research. 2021.

Curriculum Vitae

Yu Dong was born on January 15, 1988, in Shehong county, Sichuan province, China. After finishing secondary education in 2007, he began his bachelor study majoring in Machine Design Manufacture and Automation at the Ocean University of China, in Qingdao, China. He received a Bachelor of Engineering degree in Mechanical engineering in June 2011. In that same year, he started working as an assistant mechanical engineer in Haiyang CIMC offshore Co. Ltd, Yan Tai city. In 2014, he began his master study as a researcher at the State Key Laboratory of Cognitive Neuroscience and Learning at the Beijing Normal University, for which the neural mechanism of temporal prediction was investigated in a primate rhesus model. He graduated with a Master of Science with his thesis titled "*The study of temporal prediction, neural mechanisms and the relationship with microsaccade in macaque monkeys*" in 2017. In September 2017, he began as a PhD student at the Department of Otorhinolaryngology at the Leiden University Medical Center, Leiden, the Netherlands (supervisors Prof. Dr. Ir. J.H.M. Frijns, Dr. Ir. J.J. Briaire and Dr. H.C. Stronks) with a focus on cochlear implants (2017-2021). The results of this study are described in the present thesis.

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