

Wallace H. Coulter Foundation Biomedical Engineering Seminar Series

ANDREW (ANDY) DYKSTRA is Assistant Professor of Neural, Cognitive, and Brain Engineering in the Department of Biomedical Engineering at the University of Miami. Trained as an electrical engineer at UM, he earned his PhD in auditory neuroscience at MIT before completing post-doctoral work at Heidelberg University (Germany) and Western University's Brain and Mind Institute (Canada).

His research examines how humans perceive and process sound across the lifespan and how this knowledge can be used to design smarter hearing aids and more sensitive diagnostics in audiological and neurological clinics.



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Identifying Physiological Markers Of Conscious Audition: Progress And Problems

ABSTRACT: What we hear isn't always a direct reflection of physical sound sources, particularly in complex environments where even clearly audible sounds often remain subliminal. Such dissociations between physical stimuli and subjective experience can yield fundamental insight into both the perceptual organization of sound

and how conscious (auditory) perception emerges from patterns of brain activity. In this talk, I will present select results from multimodal neuroimaging studies designed to shed light on these issues as well as describe a framework for addressing critical lingering questions.



Through the generous support of the Wallace H. Coulter Foundation the Department of Biomedical Engineering facilitates weekly lectures each year during academic terms. Experts in all areas of Biomedical Engineering are invited to campus to provide a research seminar and to meet with faculty and students and to tour our academic and research facilities.

Friday, January 24, 2020
9:00AM-10:00AM Room EC 2300