The role(s) of selective attention in speech comprehension & aphasia rehabilitation
Corianne Rogalsky, PhD.
College of Health Solutions, Arizona State University

There is ample evidence that executive functions are recruited to support speech comprehension in challenging listening situations, and also are recruited to support communication in some individuals with aphasia. Much of the previous work examining how executive functions are involved in speech comprehension has focused on working memory. However, selective attention has been shown to be a critical underlying mechanism for executive functions, including working memory, yet is largely understudied regarding its potential role in speech comprehension and aphasia rehabilitation. A better understanding of the roles of selective attention in speech comprehension may provide new avenues of aphasia prognostics and rehabilitation. I will present a series of our recent neuroimaging and behavioral findings in individuals with chronic aphasia and neurotypical adults that indicate that different selective attention resources are recruited for different types of speech comprehension, and that selective attention and working memory abilities each predict different types of speech comprehension abilities. These findings have contributed to our development of a functional neuroanatomical model of the executive function brain networks that contribute to speech comprehension in everyday, complex situations. Ongoing initial experiments attempting to use individualized executive function and neurobiological profiles to optimize communication with individuals with aphasia also will be discussed.

Room #140, Discovery I, 915 Greene Street, Columbia, SC 29208
Date: Thursday, January 31st 2019, Time: 2pm – 3pm EDT
The viewing event will be catered!
The lecture can also be followed online from your computer, tablet or smartphone, via the following GoToMeeting address (no password required): https://global.gotomeeting.com/join/667426173
You can also dial in using your phone.
United States : +1 (872) 240-3412
Access Code: 667-426-173
First GoToMeeting? Try a test session: http://help.citrix.com/getready