

Thursday, August 31st, 2pm EDT

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“The Anatomy of Aphasia Revisited”

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The Wernicke-Lichtheim model has been in existence for over a century, and classification of aphasic symptomatology continues to rely on it. However, far more detailed models of speech and language localization in the brain have been formulated. In this regard, the dual stream model of cortical brain organization proposed by Hickok and Poeppel is particularly influential. Their model describes two processing routes, a dorsal stream and a ventral stream, that roughly support speech production and speech comprehension, respectively, in normal subjects. Despite the strong influence of the dual stream model in current neuropsychological research, there has been relatively limited focus on explaining aphasic symptoms in the context of this model. Given that the dual stream model represents a more nuanced picture of cortical speech and language organization, cortical damage that causes aphasic impairment should map clearly onto the dual processing streams. I will present a follow-up study to our previous work that used lesion data to reveal the anatomical boundaries of the dorsal and ventral streams supporting speech and language processing. Specifically, by emphasizing clinical measures, we examine the effect of cortical damage and disconnection involving the dorsal and ventral streams on aphasic impairment. The results reveal that measures of motor speech impairment almost exclusively involve damage to the dorsal stream, whereas measures of impaired speech comprehension are strongly associated with ventral stream involvement.

Location: University of South Carolina, Discovery I, Room #140, 915 Greene Street, Columbia, SC 29208
Date: Thursday, August 31st, 2018. Time: 2pm – 3pm EDT

This event will be catered!

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C-STAR LECTURE SERIES

The Center for the Study of Aphasia Recovery (C-STAR; <http://cstar.sc.edu/lecture-series/>) houses researchers who examine the effects of behavioral treatment, brain stimulation, and residual brain function (brain plasticity) on recovery from aphasia. C-STAR is a collaboration between researchers from the University of South Carolina, the Medical University of South Carolina, Johns Hopkins University, and the University of California, Irvine. The Center is funded through the National Institute of Deafness and Communication Disorders (NIDCD) grant #NIH P50 DC014664. Biweekly public lectures, given by members and guests of C-STAR, are accessible live and online. Recordings of the lectures can be viewed via C-STAR YouTube channel:

<https://www.youtube.com/channel/UC8p0CuG4He9nqCR4nnzhZ7w>