

**Friday, January 27<sup>th</sup>, 12pm (noon) ET**  
Presentation in Zoom, accessible via the C-STAR website:  
<http://cstar.sc.edu/lecture-series/>

**Neuroimaging investigations of recovery from sentence processing deficits in aphasia**

Elena Barbieri, PhD  
Northwestern University

Sentence production and comprehension deficits are a hallmark of agrammatic aphasia, an acquired language disorder that most often occurs following a stroke affecting the left hemisphere, and of the agrammatic subtype of Primary Progressive Aphasia (PPA-G), a neurodegenerative disease in which neuronal loss (atrophy) affects primarily the language-dominant left hemisphere. In this talk, I will present the results of a few studies investigating the behavioral and neuroimaging effects of language interventions directed to sentence processing deficits in agrammatic aphasia due to stroke and in PPA-G, highlight the potential of right hemisphere homologues of language regions for supporting recovery, and discuss some of the factors underlying variability in treatment-induced changes in functional activation. The implications of such findings on the selection of targets for combined behavioral-neuromodulatory interventions also will be discussed, together with preliminary findings from studies using transcranial direct current stimulation (tDCS).

---

The online lecture can be followed online from your computer, tablet or smartphone, in **Zoom**. The zoom link is accessible via the C-STAR website: <http://cstar.sc.edu/lecture-series/>

For more information, or to be added to the C-STAR mailing list, contact Dirk den Ouden: [denouden@sc.edu](mailto:denouden@sc.edu)