

Neuroimaging and neurostimulation methods are gradually moving from the domain of specialized, technique-specific labs to mainstream research in psycholinguistics, linguistics, audiology, and speech pathology. As these techniques have become more accessible, researchers have increasingly recognized them as a set of tools that can be deployed appropriately depending on the research question. Making the appropriate choice of tool, however, requires an understanding of the strengths and limitations of each method - as does being a critical consumer of literature using these techniques. This talk will provide an overview of modern neuroimaging tools that can be used to study language processing, highlighting the relative merits and limitations of each. Techniques to be covered include fMRI, EEG, MEG, and optical imaging. Neurostimulation techniques including transcranial magnetic stimulation and transcranial direct current stimulation will be described as well. Special considerations when studying language disorders and clinical populations will also be discussed.