TOPICS OF RESEARCH

- Investigating how the human mind and brain learn and use written language
- Neural plasticity and recovery from aphasia (language deficits due to brain injury)
- The role of motor experience in acquiring written language
- Individual differences in reading & spelling
- Bilingualism and biscriptalism (reading and writing in different alphabets)

GOALS

- Understanding the cognitive and neural bases of learning through language
- Increasing the breadth and depth of knowledge about the lexical and sub-lexical systems and how they are represented in the brain
- Practical implications include the optimization of the effectiveness of interventions and improvement in educational practices

Research Assistants in this Lab will:

- Read and analyze cognitive science articles
- Recruit participants and administer behavioral tasks including attention, memory, and language
- Collect behavioral and neuroimaging (MRI, fMRI) data

In the Department of Psychology, UNC Greensboro
Dr. Robert W. Wiley

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What we do

OUR PHILOSOPHY
We integrate information from cognitive science, cognitive psychology, neuropsychology, neuroscience, psycholinguistics, and other disciplines to inform our research practices.

EXPERIMENTAL METHODS
- Behavioral methods
- Neural / neuroimaging (MRI, fMRI)
- Advanced statistical analyses (multilevel modeling, Monte Carlo methods, Bayesian approaches)
- Toolkits for processing spelling and pronunciation errors

POPULATIONS WE STUDY
- Neurotypical/neurologically intact/healthy individuals (adults)
- Individuals recovering from post-stroke aphasia (individuals who have suffered neurological injury/lesion in the brain)
- Individuals with developmental or acquired disorders (dyslexia, dysgraphia)

RECENT PUBLICATIONS AND PRESENTATIONS

Publications


Conference Activity


What we do

The Cognitive and Neural Basis of Word Learning in Aging, Stroke, and Developmental Language Impairment
Sublexical Representations in Written Language
Temporal Deficits in Anomic Aphasia

CURRENT PROJECTS

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