

# Barbara Chapman Neuroscience Award



## Darlene Archer 2017 Award Recipient

Darlene Archer is a sixth-year PhD student in neuroscience at the University of California, Davis, in the lab of Dr. W. Martin Usrey. She is studying the interplay between feedforward and feedback pathways that interconnect the visual thalamus and cortex in the macaque monkey. By recording single-unit activity in trained animals, Darlene is identifying how feedback pathways shape visual signals conveyed to cortex. Previously, Darlene completed a Master of Arts in Experimental Psychology: Cognitive Neuroscience from Wake Forest University and a Bachelor of Science in Psychology from Western Carolina University. Darlene specializes in visual processing and electrophysiology and hopes to pursue a career in academia that will allow her to continue her interests in the underlying circuitry and mechanisms involved in subcortical and cortical interactions.

### Impact of Philanthropy

*The Barbara Chapman Neuroscience Award allowed Darlene to participate in the Cold Spring Harbor Laboratory course, Vision: A Platform for Linking Circuits, Perception, and Behavior in Lloyd Harbor, NY (co-directed by Dr. Barbara Chapman 2005-2011) where she expanded her scientific knowledge base and network, greatly enhancing her training as a vision scientist.*