



DR MEL WOHLGEMUTH & THE UA BAT LAB

Sept 16: 2:30-3:30pm

Our lab is interested in how the brain interacts with the environment for sensory-driven control of natural behavior. More specifically, we are interested in how bottom-up circuits work in concert with top-down circuits to react to incoming sensory information, and plan behaviors over longer timescales to meet goals. For example, when you are driving your car, you simultaneously react to the cars around you while planning your route to reach your destination.

In order to study how the brain accomplishes these sensory driven actions, it is important that we recreate natural conditions in the laboratory so that we can invoke realistic sensory and motor experiences to research. To this end, we study how the echolocating bat adapts its natural hunting behaviors with respect to sonar echo information for both moment-by-moment behavioral control, and longer-term planning of prey interception.

Our research is focused on an interconnected cortico-collicular circuit that integrates arriving sensory information with long-term goal planning for the bat's natural hunting behaviors. By studying this circuit in the bat, we learn general principles about how the mammalian brain performs sensorimotor adaptations across short and long timescales.

Join us virtually:

<https://streaming.biocom.arizona.edu/streaming/29706/event> -
Password: UACSeminars

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Arizona AALAS

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