

## **Ann Yeh - *Eye tracking and its structural and functional correlates in OMAS***

### **Abstract:**

Ongoing cognitive abnormalities in children with a history of OMAS have been well documented. Eye tracking is a novel technology that can be used to identify anatomical and functional correlates of disease. Previous studies have implicated altered circuit dynamics in the brainstem reticular formation to account for the uncontrolled saccades associated acutely with opsoclonus in OMAS. Specifically, disruption of intrinsic membrane properties of excitatory and inhibitory burst neurons that drive the extraocular motoneurons is hypothesized to underlie saccade oscillations, and this intracellular mechanism has been successfully modeled. Using eye tracking, we have found ongoing circuit abnormalities in children with a history of OMAS. This talk will outline eye tracking abnormalities detected in this population and identify correlates with cognitive metrics. Details of an ongoing multi-site study of eye tracking in children with OMAS will be shared.