

Elizabeth Hillman is a Herbert and Florence Irving Professor at Columbia University within the Zuckerman Mind Brain Behavior Institute and the Departments of Biomedical Engineering and Radiology. Her lab has developed a wide range of optical imaging and microscopy methods for in-vivo imaging, most recently swept confocally aligned planar excitation (SCAPE) microscopy. In diverse collaborations with researchers worldwide, Hillman has demonstrated SCAPE microscopy for real-time imaging of the beating zebrafish heart at over 300 volumes per second, and studied brain-wide activity in fish during vestibular and visual stimuli, in addition to broader studies in *C. Elegans*, adult and larval *Drosophila* and mouse models. Her work also encompasses studies of brain physiology, particularly to understand the relationship between neuronal activity and blood flow in the mammalian brain.