



**BCS # 2128684**

***FW-HTF-P: Augmenting Healthcare Professionals' Training, Expertise Development, and Diagnostic Reasoning with AI-based Immersive Technologies in Telehealth***

**PI(s): Roger Azevedo, Varadraj Gurupur, Mark Neider, Mindy Shoss, & Dario Torre (University of Central Florida)**

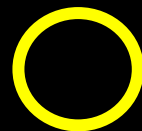
**Presenter's Contact Information (Varadraj Gurupur; varadraj.gurupur@ucf.edu)**

**Goal 1.** Secure, develop, engage, and collaborate with a network of healthcare workers, patients, academics, and industry partners across multiple sectors

**Goal 2.** Identify existing academic and commercially-available immersive virtual reality empathy training systems and examine their features in detecting, modeling, tracing, and supporting healthcare workers' empathy across various medical contexts

**Goal 3.** Outline a theoretically-based and empirically-driven interdisciplinary research plan, including methodologies, analytical approaches, and metrics to investigate the impact of immersive virtual reality-based empathy training on healthcare workers' empathy and their effects on patient outcomes

## Holographic Telepresence for AI-based Immersive Telehealth — Diagnostic Reasoning and Medical Errors



**= Multimodal data collected from various sensors on machine & humans**  
(e.g., verbalizations, eye movements, physiological arousal, gestures & body movements, facial expressions of emotions, EEG, ambient sensors, etc.)