

BIOMEDICAL INFORMATICS  
COLLEGE OF MEDICINE

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE students

FOR APPLICATION YEAR: 2024

PROJECT TITLE: Analyzing Clinical Workflow of Sleep Studies and Understanding Clinician Perspectives on Sleep Data Tracking

Danny T.Y. Wu  
College Medicine  
231 Albert Sabin Way, ML0840  
wutz@ucmail.uc.edu

**Project Description**

The primary aim of the project is to analyze sleep study procedures and their workflow bottlenecks and discern differences in workflow between the general population and specific medical populations (Alzheimer's, diabetes, and maternal patients). The secondary aim is to understand clinician perspectives on sleep data tracking using wearable devices and how this type of patient-generated health data (PGHD) could be helpful. The methodology of this project will consist of interviewing sleep specialists and professionals regarding the workflow and the perspectives on the sleep data tracking. The interviews will be transcribed verbatim. The transcripts will be analyzed through affinity diagramming to draw common themes from the participants. The results will inform future studies in developing usable and actionable sleep data dashboard to support shared decision making.