

BIOENGINEERING

PRESENTS

"Deriving network parameters for understanding drug effects"



THURSDAY, December 2nd, 2021

12:00 – 1:00 PM

Zoom Link: <https://ucla.zoom.us/j/96241974712>

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ABSTRACT:

While great advances in medicine have been made in the past century, the overall infrastructure of the healthcare system has not progressed. Patients are still expected to travel to a centralized location for discrete, reactionary-based care where the healthcare provider only has a brief window to assess the patient's health. Unless the symptoms are overt at the time of examination, the subjective evaluation relies heavily on the self-reporting of symptoms from the patient. This often results in delayed or improper diagnoses. In contrast, we know that physiological signals precede clinical deterioration. We have developed a suite of soft, low-cost, unobtrusive, Band-Aid © like physiological sensors to continuously monitor patients' cardiovascular and pulmonary functions. We seek to continuously quantify subtle physiological changes to predict – and eventually prevent -- the onset of acute clinical events.

BIOGRAPHY:

Michelle Khine, Ph.D. is a Professor of Biomedical Engineering and Associate Dean of Undergraduate Education at UC Irvine. She is the founding Director of Faculty Innovation at the Samueli School of Engineering and founding Director of BioENGINE (BioEngineering Innovation and Entrepreneurship) at UC Irvine. Prior to joining UC Irvine, she was an Assistant & Founding Professor at UC Merced. Michelle received her BS and MS from UC Berkeley in Mechanical Engineering and her Ph.D. in Bioengineering from UC Berkeley and UCSF. She is the Scientific Founder of 6 start-up companies. Michelle was the recipient of the TR35 Award and named one of Forbes '10 Revolutionaries' in 2009 and by Fast Company Magazine as one of the '100 Most Creative People in Business in 2011. She was awarded the NIH New Innovator's Award, was named a finalist in the World Technology Awards for Materials and was named by Marie-Claire magazine as 'Women on Top: Top Scientist'. She was named Innovator of the Year 2017 for the Samueli School of Engineering at UC Irvine. Michelle is a Fellow of AIMBE (American Institute of Medical and Biological Engineering) and a Fellow of the National Academy of Inventors.