

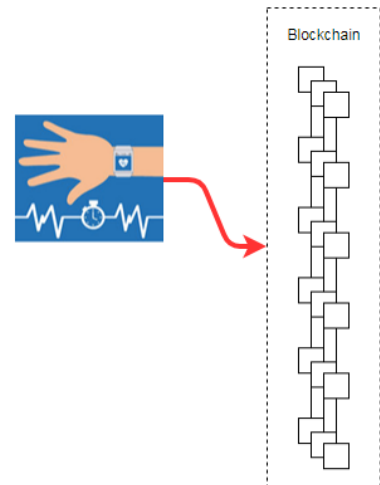
The Computer Science Program at CSU Channel Islands presents:
Leveraging the Blockchain to Increase Value of Patient Generated Health Data

A talk by

Dr. Nathan Botts

Tuesday, April 2, 2019, 6pm – 7pm in SIE 1422

Abstract: In recent years, there has been a steady proliferation of personal health and fitness related devices (e.g. Fitbit, Apple Watch, etc.) that monitor and report various aspects of our physical and mental health. These devices continually monitor, track, analyze, and report on an individual's health and within the medical context is often referred to as Patient Generated Health Data (PGHD). The value that PGHD can provide toward better understanding of an individual's longitudinal health profile and social determinants of health is increasingly being recognized in the medical research literature. Effective use of this data by a provider or insurer, however, requires many facets to be coordinated, and include technical interoperability, usability within the clinical information workflow, and the trust that this data is meaningful. Blockchain technologies offer the ability to address each of these aspects in unique ways and offers the opportunity to increase the value of PGHD and our investments in these powerful tools.



Bio: Dr. Nathan Botts is a Senior Study Director at Westat within their Healthcare Delivery Research and Evaluation division and adjunct faculty within the School of Business and IT at Purdue University Global. He is a health informaticist and interoperability specialist, with over 12 years of clinical systems research and development experience. Dr. Botts currently serves as the Electronic Patient Engagement (EPE) domain lead for the HRSA funded Health Information Technology, Evaluation, and Quality Center project. Within this effort, he provides technical training and assistance for state-based Primary Care Associations on tools for assisting patients in self-management of chronic conditions. Dr. Botts also served as Project Director for a Substance Abuse and Mental Health Services Administration (SAMHSA) funded, 3-year effort, called Mobile Patient Opportunities for Wellness, Engagement, and Recovery (mPOWER) which evaluated the use of integrated mobile health technologies for support of Veterans working through substance abuse therapies. Dr. Botts was Chief Technology Officer for HealthATM, a personal health record (PHR) system for patient activation and engagement which was piloted within several Federally Qualified Health Centers across California. He has been awarded grants for research on mobile health and PHRs by the MDAnderson Cancer Center, the National Science Foundation, the California Healthcare Foundation, and the Blue Shield Foundation. His research on electronic patient engagement includes publications in the Journal of Psycho-Oncology, the International Journal of Medical Informatics, the American Journal of Preventive Medicine, and the Journal of Medical Internet Research. Dr. Botts is Co-Chair of the HL7 Mobile Health workgroup where he leads development of the Consumer Mobile Health Application Function Framework.

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