Friday, September 8th, 2023
Location: MEB 202
Time: 11 am

Seminar:
"Sustainable, Relevant, and Autonomous Computing for Health and Wellbeing"

Dr. Josiah Hester

Associate Professor
Interactive Computing and Computer Science
Catherine M. and James E. Allchin
Early Career Professorship
College of Computing
Georgia Institute of Technology

Abstract:
Medicine is evolving towards personalized, adaptive, and autonomous care tailored to individual patients' needs. Wearable and implantable devices play a crucial role. Yet, current wearables have limitations like discomfort, privacy concerns, and inadequate clinical data. In his presentation, Dr. Josiah Hester will address the key challenges inhibiting wearable adoption in clinical practice: battery life, design, and privacy. He will showcase two projects addressing these hurdles: NeckSense, a necklace for eating detection, and FaceBit, an energy-harvesting smart mask capturing health metrics. These initiatives pave the way for reimagining wearables in telemedicine. Dr. Josiah Hester will conclude by exploring themes of equity, sustainability, and inclusivity in future health tech, along with exciting cancer treatment projects in his lab.

Bio:
Josiah Hester was born and raised on Oahu. He is an Associate Professor at Georgia Tech, previously at Northwestern as an Assistant Professor. His research centers on computing systems for sustainability and healthcare, influenced by his Kānaka Maoli heritage. He also explores large-scale sensing for sustainability, intersecting with personal and population health. His work is acclaimed, earning best paper awards and coverage in notable outlets like Wall Street Journal, Scientific American, and BBC.

Zoom Link:
Join Zoom Meeting
https://hawaii.zoom.us/j/97816888799
Meeting ID: 978 1688 8799

All non-JABSOM participants, please check in and show your ID at the JABSOM MEB Security Desk.

This seminar is supported by NIH grants OT2HD108105-02 and P20GM139753