Digital Health @ HSL

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UNC Health Sciences Library
Bad libraries build collections, good libraries build services, great libraries build communities.

R. DAVID LANKES
Digital Health @ Health Sciences Library
Promoting innovative use of digital health solutions to solve pressing patient-centered health problems.

Research and Innovation

Workshops and Seminars

Devices for Research Studies

Digital Health Consultations

Centers and Programs

Carolina Population Center
Sheps Center
Lineberger Cancer Center
Biobehavioral lab
HHIVE
Global Aging and Tech
Collaborative
RENCI/BRIC
Institute on Aging
BATLAB
EXSS
BME/CS
CHAI core

Visit our website at digitalhealth.web.unc.edu
or follow us @CaDHRI_UNC
Digital Health Accomplishments

Original Research

- Fitbit Study with SPH
- RWJ Foundation protocol

Artifacts

- Digital Health database on campus
- Websites, news stories, and flyer outreach
- Fitbit Study paper and capstone presentation
- mHealth resources
- Device Collection brochure and library catalogue
Digital Health Device Collection

- Sleep trackers
- Voice assistants
- Activity trackers
- Pulse oximeters
- Digital stethoscopes
- Air quality monitors
- Tools for digital health research (infrared camera, mHealth hardware kit, beacons)
- More!
Example Projects

• Brain-controlled (EEG) virtual reality game/platform
• Amazon Alexa apps for Phlebotomy and Pediatrics
• Infrared camera sensing of heart rate variability
• Wireless scales to support weight loss
• Aerosol inhalation monitors for youths with asthma
• Bluetooth beacons for Cystic Fibrosis app
• Augmented Reality Tai Chi application for rehabilitation
• EEG study of health information seeking tasks
• EEG-controlled augmented reality board game
• EKG to support concussion studies for the DoD
• Garmin devices and voice assistant for remote monitoring feasibility study at UNC Hospitals
Events

Workshops

- Agile Science
- Digital Health Regulatory Process & IRBs
- Overview of Digital Health in the UNC Research Context
- Digital Health Devices
- API/App Development
- Digital Health Data Management

Seminars

- Privacy & Security
- Digital Health Research @ UNC CS Dept
- CHART Application
- Augmented Reality Health Applications
Augmented & Virtual Reality

UNC AR/VR Interest Group (130+ members)
SOM/Computer Science AR-augmented surgery
Inter-institutional grant across UNC System to build future collaborative work of VR in Human Health
Contact Us

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http://hsl.lib.unc.edu/digital-health/