

Digital Health @ HSL

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UNC Health Sciences Library





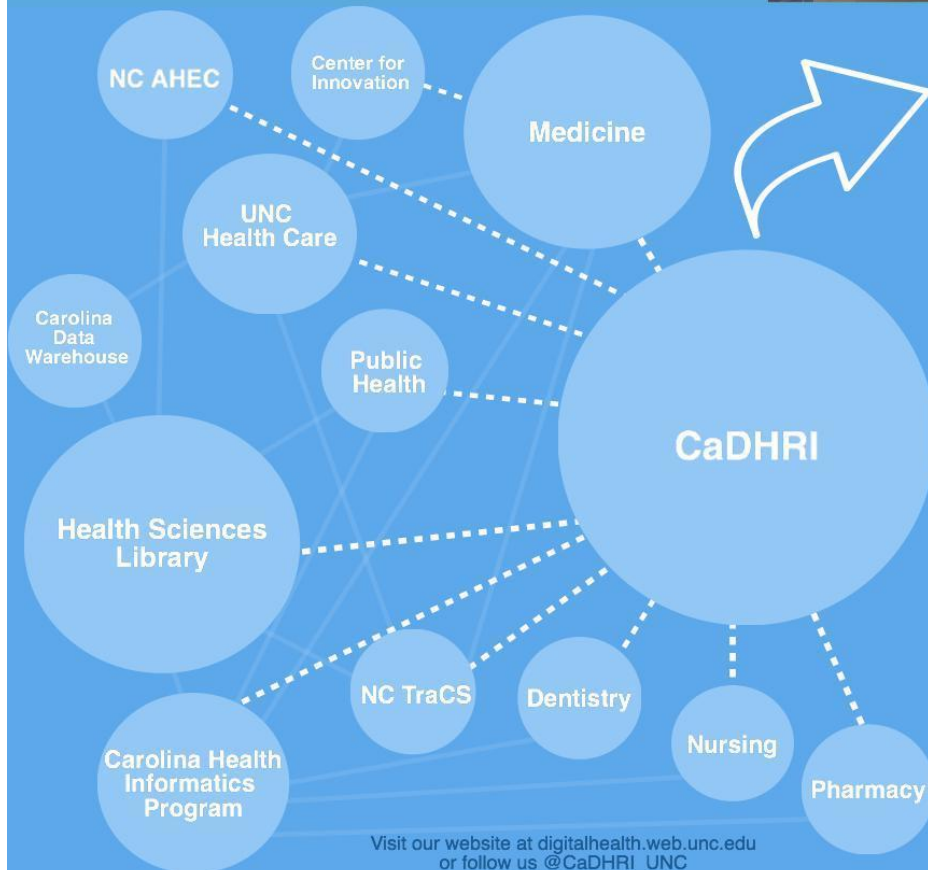
Bad libraries build collections,
good libraries build services,
great libraries build communities.

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!

Collection information

Devices by category

- Activity Tracker
- Air Quality
- Behavioral
- EEG
- Mindfulness
- Motion Control
- Posture
- Sleep tracker
- Vein Finder
- Vision Testing
- Vitals Metrics
- Voice Assistants

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/>