

# Claremont Graduate University E-Health Opportunities

Presented to Health-e-LA Coalition  
November 2, 2007

Thomas A. Horan, Ph.D.  
Samir Chatterjee, Ph.D.



# Kay Center for E-Health Research

The mission of the Kay Center for E-Health Research is to advance scientific understanding and public policy improvements relative to how new electronic health systems can best incorporate health, chronic disease, and disability needs so as to enable industry efficiency and promote societal welfare.

<http://kaycenter.cgu.edu>

# Kay Center Team

- Dr. Thomas Horan, Director
- Dr. Susan Daniels, Visiting Scholar
- Dr. Bengisu Tulu, Fellow
- Dr. Benjamin Schooley, Fellow
- Dr. Richard Burkhard, Fellow
- Sue Feldman, Program Coordinator
- Seven Research Associates



# Kay Center Activities

## Forums/Symposia

- Two National Forums Investigating Linkages Between Personal Health Records and Disability Systems (Washington DC)
- Three National Symposia Exploring Innovations in E-Health (CA)

## Concept Development

- Use Cases
- Pilot Projects using PHRs in disability and underserved communities
- Evaluation of PHR use general and specific situations

## Research

- National Interviews and Survey on PHR Interests
- Toward Taxonomy of PHR Interests and Needs, Including Among Those with Disabilities
- Evaluation of AMIA 10x10 Initiative

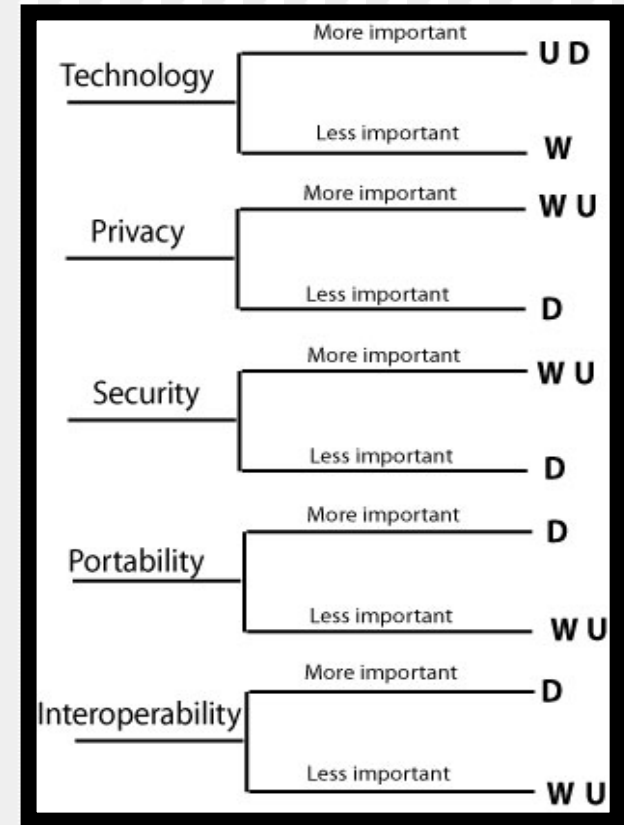
# Forums/Symposia

- Convening of policymakers
- Use case development
- Appointment to American Health Informatics Community



# Concept Development

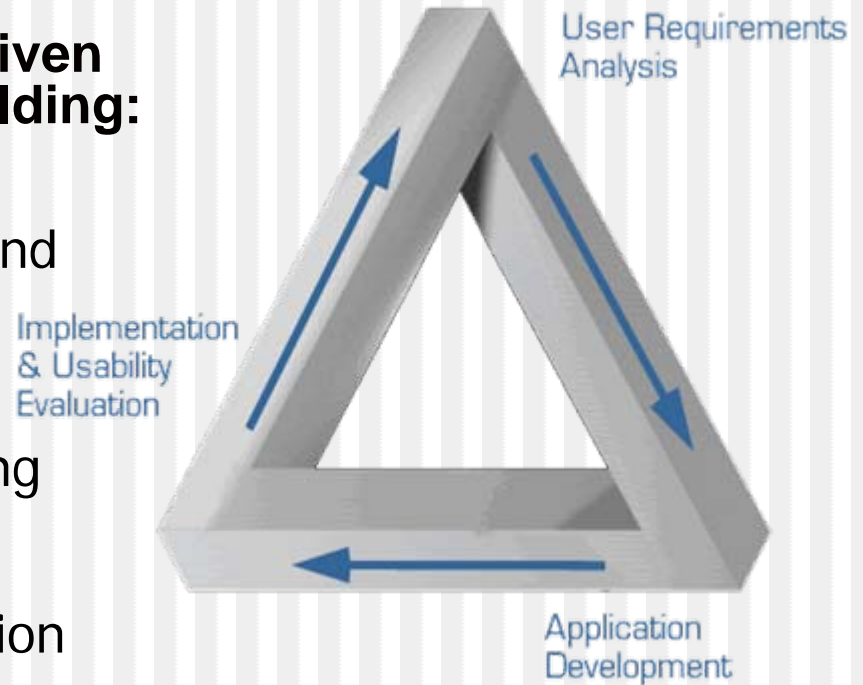
- Emphasis on user centric approach
- User taxonomy



# Development of PHR User Assessment Methodology

## Emphasis on Iterative User-Driven Approach to requirements building:

- Phase I - Emphasis on assessment of user needs and system requirements
- Phase II - Focus on development and prototyping
- Phase III - Evaluation of implementation, dissemination and usability

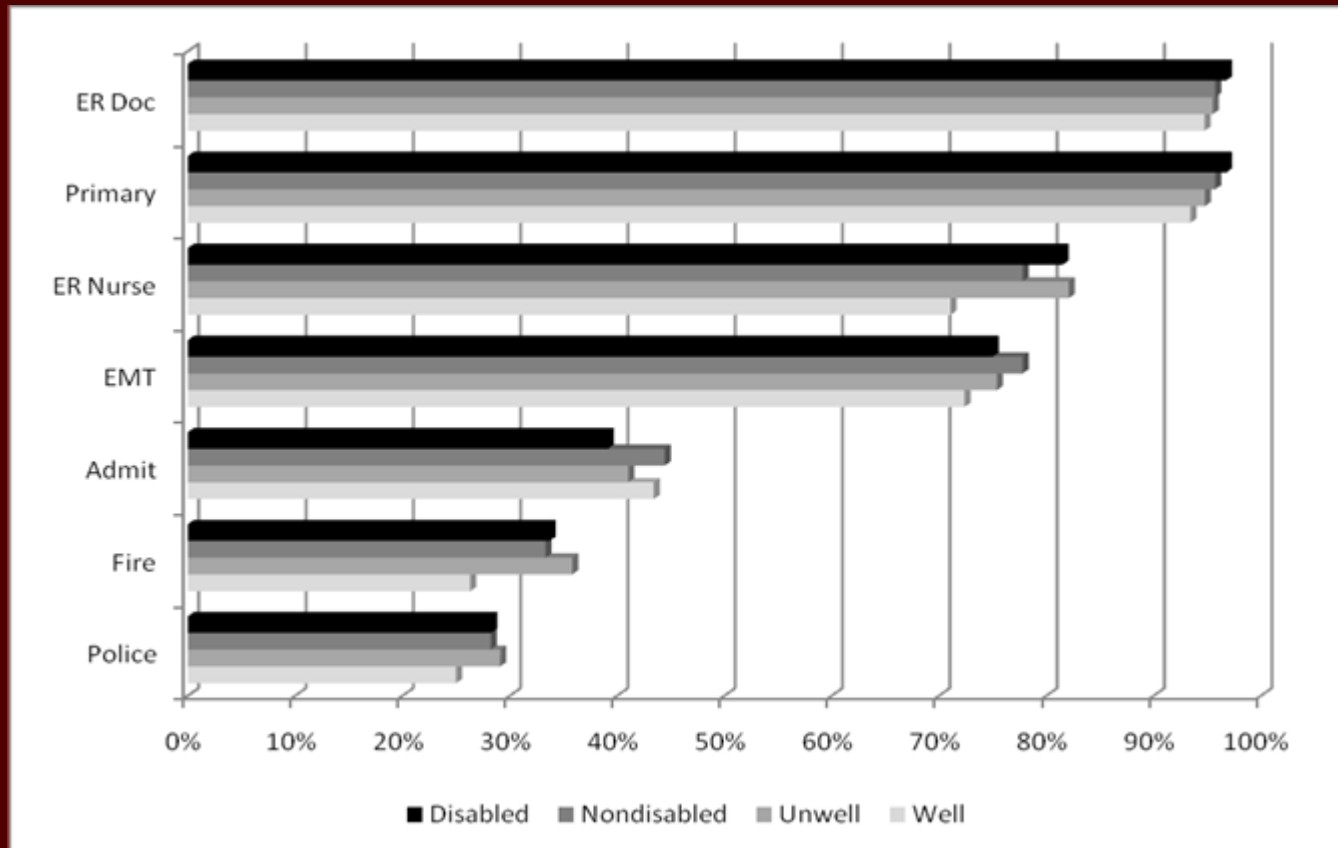


# Research

- National findings on user-centric PHRs



# Information Sharing in Emergency



# Next Steps

- Kay Center Forums/Symposia: Disability Policy Issues (DC) and Consumer Informatics Training (CA)
- Concept Development: Extending Taxonomy to Hierarchy of PHR Triggers
- Research: CA Based Evaluation for Framework in Underserved Populations



# Master's of Science in Health Information Management

Dr. Samir Chatterjee

# Our Approach to Health Information Management

- SISAT recognizes Health Information Management as a growing, inter-disciplinary field focusing on the design and management of healthcare information systems.
- Our education structure for HIM draws on several disciplines including evidenced based healthcare, IT/IS, statistics and project management.



# Why SISAT?

- Our unique 'stand-alone' structure allows us to focus on the discipline of health IT from an IT/IS perspective, yet at the same time allows us to collaborate with other disciplines to provide a diverse approach to the subject
- Our faculty are fully engaged in e-health research including EMR/PHR implementation, telemedicine and medical text mining
- Given our research intensive, graduate only environment, our motivation is to educate rather than train

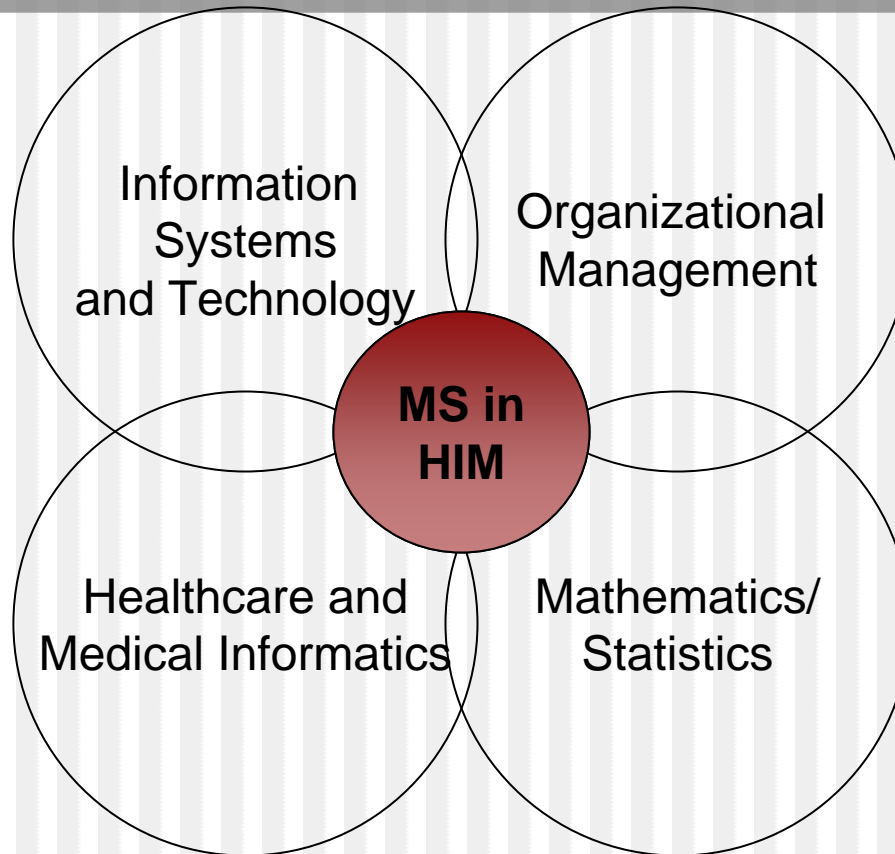


# Program Content

- 10 courses and one Clinical Immersion for a total of 44 units
- Comprehensive coursework in healthcare, information systems and technology, management and mathematics
- A unique clinical immersion component that places students into a real world clinical setting or an on campus sponsored research team



# Program Structure



# Courses Included

## Core Courses – 24 units

Database Concepts

Information Systems Analysis & Design

Medical Informatics: An IS Approach

Data Communications and Networking

Introduction to Biostatistics

## Elective Courses – 16 units

Knowledge Management

AI and Machine Learning

Large Scale Software Development

Cryptography & Computer Security

IS Policy

Evidence based Healthcare

Health Economics

Strategy and Leadership



# Clinical Immersion

We've partnered with several organizations that will provide our students with valuable practical experience. Some of these are:



**LOMA LINDA UNIVERSITY  
ADVENTIST HEALTH SCIENCES CENTER**



# Our (Surprising) Demographics

- Initially, MHIM was thought to appeal mostly to clinicians and other healthcare professionals, while this has proved to be true, the total scope of interest has been much wider than expected
- Our current HIM student body includes IT professionals, hospital administrators, recent IT undergrads and non-IT professionals seeking a career change
- This not only demonstrates the wide popularity of this program, but the diversity of contributors who inform the classroom content and enrich the program



# Looking Ahead

- The growth of and demand for this program is unquestionable. The HIM program was offered for the first time in September 2007 and has quickly become the program most prospective students inquire about.
- We are seeking to continue relationship building with local organizations as we view SISAT and the HIM program as uniquely qualified to meet the education needs of many healthcare organizations.
- Initiatives such as on-site education, collaborative learning and executive level e-health education are now being developed.



# CGU and Health-e-LA

- Kay Center: Pilot projects using PHRs
  - User evaluations
  - System evaluations
- MHIM: Education

# Claremont Graduate University E-Health Opportunities

Presented to Health-e-LA Coalition  
November 2, 2007

Thomas A. Horan, Ph.D.  
Samir Chatterjee, Ph.D.

