INF 232 - Health Overview

Colin LeFevre & Ziqi Yang @ Jan 21, 2024

Reading Refresher

Paper 1: Evaluating Health Interventions

Predrag Klasnja, Sunny Consolvo, and Wanda Pratt. How to Evaluate Technologies for Health Behavior Change in HCI Research. *CHI*. (2011).

- Discusses the evaluation of health interventions
  - What types of evaluations are appropriate and useful for systems in HCI?
  - How should the research output be evaluated?

- Calls for both standard ways of assessment and the incorporation of qualitative methods to understand how interventions work

- Also calls for new ways to standardize assessment; different focus of assessment in different stages of a system

Paper 2: Healthcare and CSCW

Geraldine Fitzpatrick and Gunnar Ellingsen. A Review of 25 dates of CSCW Research in Healthcare: Contributions, Challenges, and Future Agendas. *Computer Supported Cooperative Work* (CSCW). 22 (2013).

- Provides an overview of 25 years of CSCW research on healthcare
- Finds a strong qualitative focus, with an emphasis on understanding people rather than evaluating systems
- Finds a a focus on smaller scale interactions rather than larger scale projects
- Findings an interest in an expanding set of health contexts

History of CHI Health

History of CHI's Health Subcommittee

- In 2011, health is *briefly* mentioned in the **Specific Application Areas** subcommittee
- In 2017, a **Health, Accessibility, and Aging** subcommittee is added
- In 2019, **Health** becomes its own subcommittee

GLASGOW, UK / MAY 4–9
WEAVING THE THREADS OF CHI

Changes to Subcommittee Descriptions

Specific Application Areas (2011)

"Examples of application areas include but are not limited to: education, home, entertainment, office, ecommerce, **health**, sustainability, and creativity."

Health, Accessibility, and Aging (2017)

"This subcommittee welcomes all contributions related to accessibility, **health**, and aging, including empirical, theoretical, conceptual, methodological, design, and systems contributions."

Health (2019)

"This subcommittee is suitable for contributions related to **health, wellness, and medicine**, including physical, mental, and emotional well-being, clinical environments, self-management, and everyday wellness."

CHI Health Research Topics

https://pollev.com/ziqiyang401

What are the core research questions or topics examined by researchers who publish in this subcommittee?
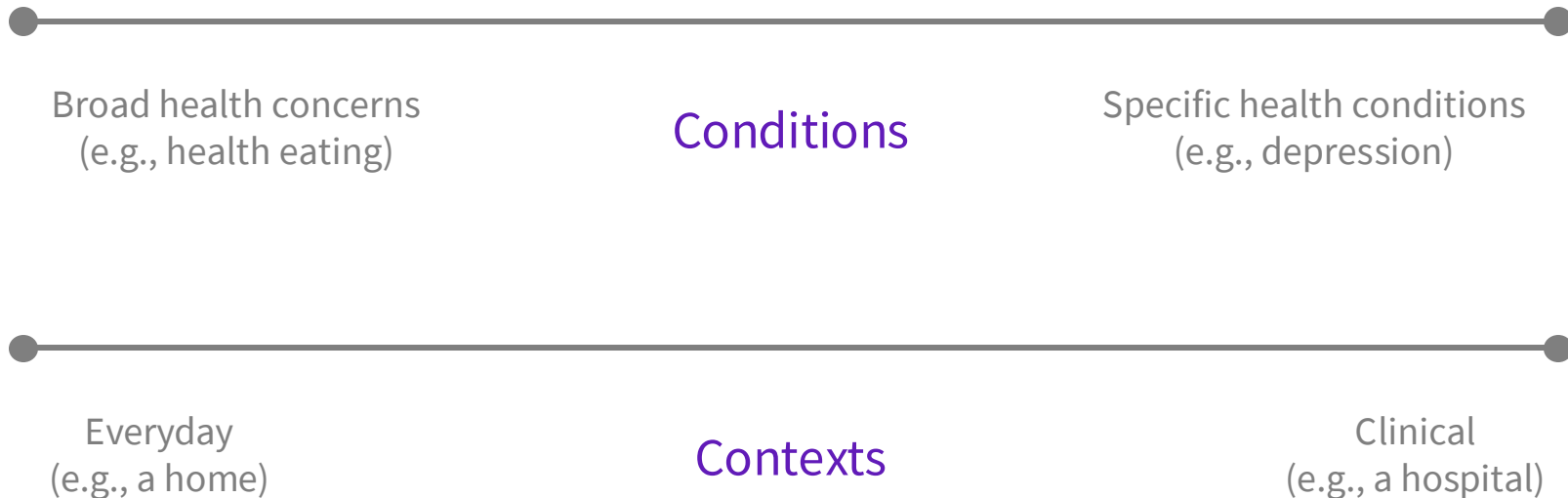
Nobody has responded yet.

Hang tight! Responses are coming in.

Two Spectrums of CHI Health

Ways to categorize the diversity of subcommittee topics

Broad health concerns
(e.g., health eating)

Conditions

Specific health conditions
(e.g., depression)

Everyday
(e.g., a home)

Contexts

Clinical
(e.g., a hospital)

CHI Health Methods and Perspectives

https://pollev.com/ziqiyang401

What are the typical methodological approaches, or theoretical perspectives of the health subcommittee for doing research?

Nobody has responded yet.

Hang tight! Responses are coming in.

Methods and Perspectives in CHI Health

- Primarily qualitative methods, with some mixed methods and quantitative methods

- Researchers share an interest in examining people's health experiences *in detail*, which relates to the frequency of qualitative researcher

- Some diversity under this shared interest in how people are framed: person, patient, user, etc.

Disciplines Drawn on by CHI Health

https://pollev.com/ziqiyang401

Outside of HCI, what disciplines do contributions on this topic seem to draw from?

Nobody has responded yet.

Hang tight! Responses are coming in.

Disciplines Drawn on by CHI Health

Clinical sciences (e.g., psychological science)

- Domain expertise for particular health conditions
- Methods for eligibility assessment (e.g., PHQ-9)
- Framing, motivating, and/or contextualizing HCI research

Other disciplines used by HCI more broadly

- Quantitative and qualitative analysis methods (e.g., reflexive thematic analysis)
- *In essence, papers in this subcommittee draw their methods from a variety of disciplines outside of HCI, like the rest of CHI*

CHI Health vs. AMIA/JAMIA

https://pollev.com/ziqiyang401

How are CHI and AMIA/JAMIA similar and different in the kinds of research contributions they publish?

Nobody has responded yet.

Hang tight! Responses are coming in.

CHI Health vs. AMIA & JAMIA

AMIA (American Medical Informatics Association) and JAMIA (Journal of AMIA) have *some overlap* with CHI Health:

✅ Consumer health informatics (e.g., mobile apps for healthcare)

✅ Clinical health informatics (e.g., clinical decision support technologies)

❌ Clinical research informatics (e.g., technology for translational research)

❌ Translational bioinformatics (e.g., storage of biomedical data)

CHI Health vs. CSCW

Computer Supported Cooperative Work and Social Computing (CSCW) focuses on:

"Human-centered research in the design, use, and evaluation of technologies that support or affect social, cooperative, and collaborative practices in groups, organizations, communities, and networks" (CSCW '25 Call for Papers)

It has some overlap with CHI Health:

✅ Domains of healthcare and everyday health and wellness

❌ Sociotechnical domains not related to health

CHI Health vs. DIS

Designing Interactive Systems (DIS) focuses on:

> *"We encourage all submissions that address one of our five contribution areas: Critical Computing and Design Theory, Design Methods and Processes, Artifacts and Systems, Research Through Design, and AI and Design."*

It has some overlap with CHI Health:

✅ Intersection of design and healthcare / everyday health and wellness

❌ Research on design outside of domain of health

Thanks for listening! :D