



Social & Collaborative Tracking

Je Seok Lee and Lucas Silva



Supporting Collaborative Health Tracking in the Hospital: Patients' Perspectives

Sonali R. Mishra

Rashmi G. Elera

Andrew D. Miller

Ari H Pollack

Shefali Halder

Wanda Pratt

Maher Khelifi

Jordan Eschler

Sonali R. Mishra

- Recently defended her PhD at UW
- MS from UMICH
- “I focus on understanding how to support **hospitalized** patients in participating in their care.”
- Most cited work:

A framework for self-experimentation in
personalized health. JAMIA 2016



<https://www.srmishra.com/>

Andrew D. Miller

- Assistant Professor at IUPUI
- PhD from Georgia Institute of Technology
- “I study how social computing technology can empower people to help each other with their health and wellness.”
- Most cited Personal Informatics work:

No Longer Wearing: Investigating the Abandonment of Personal Health-Tracking Technologies on Craigslist. UbiComp 2015.



<https://www.andrewmiller.net/>

Shefali Haldar

- Research Fellow at Northwestern University (postdoc in Madhu Reddy lab?).
- PhD from UW (Biomedical & Health Informatics)
- “I study how technologies can empower people in managing their health.”
- Most cited work:

Partners in care: design considerations for caregivers and patients during a hospital stay. CSCW 2016.



<http://www.shaldar.com/>

Maher Khelifi

- Currently a UX Research Associate at UW (?)
- PhD from UW (Biomedical & Health Informatics).
- Focus on AI, entrepreneur, patient+health
- Most cited work:

Closing the gap: Supporting patients' transition to self-management after hospitalization. CHI 2016.



<https://www.linkedin.com/in/maherkhelifi/>

Jordan Eschler

- UX researcher at Facebook
- Postdoc at Northwestern (in Madhu Reddy lab?)
- PhD from UW's information school in 2017.
- Most cited work:

Self-characterized illness phase and information needs of participants in an online cancer forum.



<https://jordaneschler.com/>

Rashmi G. Elera

- Web project manager at T-mobile
- Focus on HCI and Web dev.
- Bachelor in Information Tech. from UW,
2017



<https://www.linkedin.com/in/rashmi-g-elera-36129a>

Ari H Pollack

- MD from UW
- MS from Information School - UW
- is a board certified pediatric nephrologist and hospitalist at UW Medical Center and Seattle Children's Hospital
- UW Assistant Professor of Pediatrics and Nephrology
- Adjunct Assistant Professor of Biomedical Informatics and Medical Education



<https://www.uwmedicine.org/bios/ari-pollack>

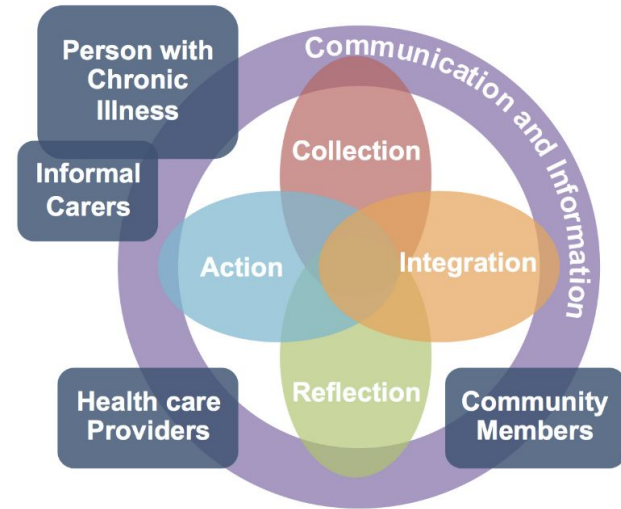


Past Related Literature

- Information Needs in the Inpatient Setting
- Health Tracking and Patient-Clinician Interactions
- Ian's Personal Informatics Stage-Based Model

Influenced Work

Lisa M Vizer, Jordan Eschler, Bon Mi Koo, James Ralston, Wanda Pratt and Sean Munson. 2019. "It's Not Just Technology, It's People": Constructing a Conceptual Model of Shared Health Informatics for Tracking in Chronic Illness Management. Journal of medical Internet research, 21



The Conceptual Model of Shared Health Informatics (CoMSHI)



It's not that i don't have problems, i'm just not putting them on facebook: challenges and opportunities in using online social networks for health

Mark W. Newman

Debra Lauterbach

Sean A. Munson

Paul Resnick

Margaret E. Morris

Mark W. Newman

- Professor at School of Information, University of Michigan
- Ph.D and MS in CS from UC Berkley
- Palo Alto Research Center (PARC) from 2000-2007
- Seeks to develop principles, methods, and tools to guide the design of ubiquitous computing applications
- Most cited work:
 - It's not that i don't have problems, i'm just not putting them on facebook (CSCW, 2011)
 - Sitemaps, storyboards, and specifications: a sketch of Web site design practice (DIS, 2000)





Debra Lauterbach

- Staff UX Researcher at Google
- MSI in UMSI (2009)



Paul Resnick

- Professor at School of Information, University of Michigan
- Online news, journalism, social interaction to support health behavior change
- Most cited work:
 - GroupLens: an open architecture for collaborative filtering of netnews (CSCW, 1994)
 - Recommender systems (Communications, 1997)



Margaret E. Morris

- Clinical psychologist, Affiliate faculty member at the University of Washington, HCDE / Consultant / Coach
- Former senior research scientist at Intel
- Coach: How individuals can change the way they use technology to improve their relationships, focus, and health
- Most cited work:
 - Mobile therapy: case study evaluations of a cell phone application for emotional self-awareness (2010)



Past Related Literature

- Consolvo, S., Everitt, K., Smith, I., & Landay, J. A. . Design requirements for technologies that encourage physical activity. CHI 2006.
 - Houston, a prototype mobile phone application for encouraging activity by sharing step count with friends
- Hwang, K.O., et al. Social support in an Internet weight loss community. (2010) International Journal of Medical Informatics 79, 1, 5-13.
 - This Internet weight loss community plays a prominent role in participants' weight loss efforts. Social support within Internet weight loss communities merits further evaluation as a weight loss resource for clinicians to recommend to patients.

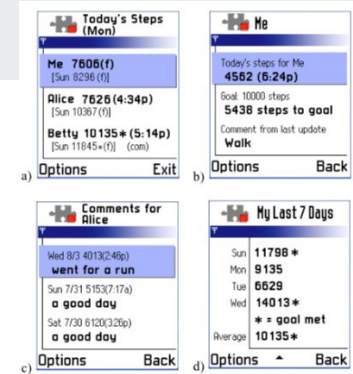


Figure 2: Houston screen shots. (a) Main screen, (b) detail screen, (c) recent comments, and (d) trending information.



Influenced Work

- Epstein, D. A., Ping, A., Fogarty, J., & Munson, S. A. (2015, September). A lived informatics model of personal informatics. In Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (pp. 731-742).
 - Accountability: Adding features that let people share progress may create channels for accountability
- Rooksby, J., Rost, M., Morrison, A., & Chalmers, M. (2014, April). Personal tracking as lived informatics. In Proceedings of the SIGCHI conference on human factors in computing systems (pp. 1163-1172).
 - Reluctance to discuss wellbeing information on general social network sites



From Nobody Cares to Way to Go!: A Design Framework for Social Sharing in Personal Informatics

Daniel A. Epstein

David W. McDonald

Bradley H. Jacobson

Sean A. Munson

Elizabeth Bales

Bradley H. Jacobson

- M.S. focused in Human Centered Design and Engineering from UW
- Not in academia.



<https://www.linkedin.com/in/bhjacobson/>
<https://www.brads.work/about>

Elizabeth Bales

- Currently working at Google
- Co-author in many of personal informatics papers



https://scholar.google.com/citations?hl=en&user=L_TQICI8AAAAJ



Past Related Literature

- Extensive literature review:
 - Why people share personal informatics data.
 - Organizes past work on social sharing according to six dimensions.



Influenced Work

- Chris Elsdén, David S. Kirk & Abigail C. Durrant (2016) **A Quantified Past: Toward Design for Remembering With Personal Informatics**. Human-Computer Interaction, 31:6, 518-557
 - Cited as a reference of barriers in sharing personal information.
- Chia-Fang Chung, Elena Agapie, Jessica Schroeder, Sonali Mishra, James Fogarty, and Sean A. Munson. 2017. **When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating**. CHI '17.
 - Cited as a reference to benefits of social sharing of personal information.