

KAZI SINTHIA KABIR

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OBJECTIVE

My research explores how humans engage with technology in the real world and seeks rationale for their behavior. Broadly, the goal of my research is to inform the design of technology about human behaviors for more reliable and robust system design. Additionally, to support designing such systems, I create translatable resources for disseminating HCI knowledge to cross-disciplinary research.

EDUCATION

PhD in Computer Science (Human-Computer Interaction), University of Utah June'2023
Thesis advisor: Jason Wiese

Bachelor of Computer Sci. & Engg., Bangladesh University of Engineering & Technology 2010-2015

EXPERIENCE

Postdoctoral Fellow Sep 2023 - Present
University of Utah *Salt Lake City, UT*

- Leading research on making undergraduate-level computer science program more inclusive.
- Co-taught undergraduate level object-oriented programming class.

Graduate Research Assistant Aug 2017 - Aug 2023
University of Utah *Salt Lake City, UT*

- Developed 11 categories of user behaviors that impact reliability of smart digital tools using user interviews, focus groups, and systematic literature review.
- Led six research studies that led to 5+ top-tier research publications.
- Mentored junior researchers in developing research skills, writing and presentation.

UX Research Intern Oct 2022 - Jan 2023
Silicon Valley Bank *Remote, UT*

- Designed and led an employee experience study with 15+ data scientists, software developers and people managers to understand the barriers for employees in adopting technology based tools to devise data science solutions
- Identified five key barriers to growth using user interview and thematic analysis skills.

Lecturer Sept 2015 - Apr 2017
BRAC University *Dhaka, Bangladesh*

- Designed learning content and taught academic courses along with student mentoring.
- Led and mentored students in academic research.

Engineering Intern Aug 2014 - Nov 2014
Samsung R&D Institute *Dhaka, Bangladesh*

- Learned Tizen framework that was novel in 2014.
- Developed reusable codes for app development using Tizen

PROJECTS

Informing design decisions about human behaviors with wearable devices Led user study with 200 participants with in-depth focus groups with 14 participants, 10 semi-structured interviews for understanding users interactions with wearable devices. Discovered insights into [users' perceptions](#) and [practices with using wearable devices](#). Developed tools to support translating academic research to design practice in the industry.

A personalized intervention system to support the psychological well-being of healthcare providers Conducted 5 semi-structured interviews, and daily surveys, and log data analysis of 12 participants for drawing insights into the [unique challenges that an AI-based self-tracking tool targeted at healthcare providers may face](#)

Inclusive research methods for research with people with disabilities Led an observational study at a modernized smart hospital with persons with disabilities using AR/VR, a systematic literature review (28 articles), ethnographic user studies (17 persons with disability). [Identified gaps and proposed improvements](#) for user experience research methods while working with persons with disabilities.

Insights into student/researcher engagement with CloudLab (Cloud computing tool similar to AWS) Conducted 15 Contextual inquiries, and a thematic analysis of the data to inform the research team about how users interact with the system. Identified critical design issues to improve user experience of [CloudLab](#). Exploring the reproducibility of research artifacts created through CloudLab.

User interaction with *Plan* app for supporting time-management practices of students Conducted 45 semi-structured interviews in three phases and a thematic analysis of the data to identify design issues and inform further improvements of the app. [Provided insights into users' engagement](#) with a novel time management tool deployed in Android and iOS. The findings inform further design iterations.

SKILLS

User study	In-depth interviews, Focus groups, Contextual inquiry, Card sorting, Surveys, A/B testing, Ethnography, Persona design, Diary studies, Usability testing
Analytical Skills	Thematic analysis, ATLAS.ti, Content analysis, Affinity diagrams, Statistical analysis
Programming	C/C++, SQL, Python, HTML
Other Tools	Miro, REDCap, Figma, Fitabase, Adobe tools (Creative, Acrobat), Excel
User study regulations	IRB protocol, HIPAA, Good Clinical Practice (US-FDA)
Online coursework	Cognitive psychology, Qualitative research skills for industry professionals UX Research for Agile Teams
Soft Skills	Technical writing, Presentation, Mentoring, Teamwork

PUBLICATIONS

Kabir, K.S., & Wiese, J. (2023a). Exploring the current design and translation practices of just-in-time adaptive interventions (jitais): A systematic review. Manuscript Under Review

Kabir, K.S., & Wiese, J. (2023b). [A Meta-Synthesis of the Barriers and Facilitators for Personal Informatics Systems](#). Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. (IMWUT), vol 7(3).

Cohoon, J., **Kabir, K.S.**, Motahar, T., & Wiese, J. (2023). [Cultivating altruism around computing resources: Anticipation work in a scholarly community](#). Proc. ACM on Human Computer Interaction vol 7(CSCW2).

Kabir, K.S., & colleagues. (2022). [Ask the Users: A Case Study of Leveraging User-Centered Design for Designing Just-in-Time Adaptive Interventions \(JITAs\)](#). IMWUT, 6(2).

Wiese, J., Lund, J & **Kabir, K.S.**, (2022). [Adding Domain-Specific Features to a Text-Editor to Support Diverse, Real-World Approaches to Time Management Planning](#) ACM CHI Conference on Human Factors in Computing Systems (to appear).

Kabir, K.S., Flis, A., Mickens, M., Trapp, S. K., & Wiese, J. (2022). [“We’re not meant to deal with crisis for a year”](#): Supporting frontline healthcare providers’ wellness during a pandemic. In H. Lewy & R. Barkan (Eds.), *Pervasive computing technologies for healthcare* (pp. 147–163)

Kabir, K.S., & colleagues. (2021). [The Impact of Spinal Cord Injury on Participation in Human-Centered Research](#). In *Designing interactive systems conference 2021*, New York, NY, USA.

Kabir, K.S., Van Blarigan, E. L., Chan, J. M., Kenfield, S. A., & Wiese, J. (2019). [“I’m done with cancer. what am i trying to improve?”](#): Understanding the perspective of prostate cancer patients to support multiple health behavior change. In *Proceedings of the 13th eai international conference on pervasive computing technologies for healthcare* (pp. 81–90)

Kabir, K.S., Chakraborty, T., & Alim Al Islam, A. (2016). [Supercrypt: A technique for quantum cryptography through simultaneously improving both security level and data rate](#). In *2016 international conference on networking systems and security (nsys)* (pp. 1–9)

Amin, A. A., & **Kabir, K.S.** (2022). [A disability lens towards biases in GPT-3 generated open-ended languages](#). *IJCAI 2022 Workshop on Diversity in Artificial Intelligence*

Kabir, K.S., & Wiese, J. (2022). [The challenge for just-in-time adaptive interventions: Incomplete or missing data](#). *CHI 2022 Workshop on the Grand Challenges in Personal Informatics and AI*

Dawson, J., **Kabir, K.S.**, Kauffman, T., Trapp, S. K., & Wiese, J. (2022). [Opportunities to support mechanical ventilation weaning](#). *UbiComp/ISWC 2022 Posters and Demos*

Islam, S., Mohammad, W., & **Kabir, K.S.** (2016). [Poster: Smart adaptive user interface of mobile applications for semi-literate people](#). *MobiSys’16*.

INVITED TALKS

Ask the users: A case study of leveraging user-centered design for designing just-in-time adaptive interventions (JITAIs), *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp’22)*, Atlanta, USA

Designing technology for supporting health behavior changes, Dept. of Biomedical Informatics, University of Utah

LEADERSHIP

Founding President and current mentor for [Bangladeshi Women in Computer Science and Engineering](#) that facilitate events and career conversation for more than 300 women. Received award for ‘outstanding performance in a leadership role.’

HONORS AND CERTIFICATIONS

Special recognition for outstanding review, *ACM MobileHCI’23* papers

Special recognition for outstanding review, *ACM CHI’23* papers

Gary Marsden Travel Award, by ACM SIGCHI

Special recognition for outstanding review, *ACM DIS 2022* papers and pictorials

Certificate on Responsible Conduct of Research. University of Utah.

Grace hopper scholarship (awarded 3x)

Student travel grant, CRA-W Grad Cohort for Women

Department fellowship, School of Computing, University of Utah.

Student travel grant, Association for Computing Machinery (ACM)

Student travel grant, IEEE-Computer Society

Dean's Honors List, Bangladesh University of Engineering and Technology

Merit Scholarship, Education board of Dhaka, Bangladesh

SERVICES

Reviewer

ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW'23, CSCW'24)

ACM Human Factors in Computing Systems (CHI'23, CHI'24)

ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT'22, IMWUT'23)

ACM Pervasive & Ubiquitous Computing (UbiComp'22)- Posters and Demos

ACM Symposium on Wearable Computers (ISWC'22)- Notes & Briefs

ACM Mobile Human-Computer Interaction (MobileHCI'22, MobileHCI'23)

ACM Human Factors in Computing Systems (CHI'22), Late-Breaking Work

ACM SIGCHI Conference on Designing Interactive Systems (DIS'22, DIS'23)

Grace Hopper Celebration of Women in Computing (GHC'17, GHC'19-'21)

IEEE Workshop on Mobile and Pervasive Internet of Things (PerIoT'17)

IEEE Knowledge Engineering and Applications (ICKEA'16)

Student Volunteer

ACM Human Factors in Computing Systems (CHI) 2022, 2018

International Conference on Networking, Systems and Security (NSysS'16)

International Workshop on Algorithms and Computation (WALCOM'15)

President & Co-founder Bangladeshi Women in Computer Science and Engineering, 2014 – 2015

Mentor Bangladeshi Women in Computer Science and Engineering, 2015 – Present

REFERENCES

Jason Wiese, PhD

Assistant Professor,

Kahlert School of Computing, University of Utah

Marina Kogan, PhD

Assistant Professor,

Kahlert School of Computing, University of Utah

Eliane Wiese, PhD

Assistant Professor,

Kahlert School of Computing, University of Utah