

ABIR SAHA

QUALITATIVE RESEARCHER

+1.317.992.8743

abir@u.northwestern.edu

[LinkedIn](#) • [Personal Website](#)

EDUCATION

Doctor of Philosophy (PhD), Technology & Social Behavior

Northwestern University

Jun 2023 (Expected)

Master of Science (MS), Electrical & Computer Engg.

Indiana University-Purdue

University Indianapolis (IUPUI)

Aug 2018

Bachelor of Science (BS), Electrical & Electronic Engg.

Bangladesh University of

Engineering & Technology

Sep 2015

SKILLS

Research Methods

Interviews, field observation, contextual inquiry, ethnography, thematic analysis, survey design, experiment design, prototyping, usability testing

Coding

Python, R

Software

Wireframing (Figma), qualitative analysis (Atlas.ti, NVivo), assistive technology (screen readers), audio and photo editing (Garageband, Logic Pro, Lightroom, Photoshop)

AWARDS

- ASSETS '20 Best Paper Nominee
- IUPUI University Fellowship '16
- International Robotics Challenge (IRC) '16 Finalist

HUMAN-COMPUTER INTERACTION (HCI) | USER-CENTERED DESIGN
ACCESSIBLE COMPUTING | ASSISTIVE TECHNOLOGY

SELECTED EXPERIENCE

Doctoral Researcher | Northwestern University

Understanding Accessibility in Audio Production

(Sep 2018 - Mar 2021)

- Produced a detailed understanding of accessibility in audio production through interviews with 18 blind musicians.
- Outlined strategies for creating accessible learning materials through observations with 6 blind audio production trainers.
- Led 3+ publications (one award-nominated) at top conferences.

Designing Accessible Learning Tools for Blind Audio Producers

(Mar 2021 - Present)

- Leading the design and usability study of new tools to support accessible learning for blind audio producers.
- Mentored an undergrad student in award-winning HCI research.

Analyzing Online Q&A Forum Usage of Blind Tech Practitioners

(May 2021 - Present)

- Performing in-depth analysis of how blind tech practitioners exchange instructional support online for Graphical UI navigation.

Designing Inclusive Music Streaming for Deaf People

(Jan 2020 - Jan 2021)

- Developed a haptic-visual tool to enhance music streaming experiences of deaf people.

Teaching Assistant | Northwestern University

Technology and Human Interaction

(Winter 2022)

- Mentoring undergrad students on fundamentals of user research.
- Guiding students in prototyping and usability testing.

Researcher (Remote) | Western Washington University

(Apr 2017 - Jan 2018)

- Outlined guidelines for designing smart technologies to support autistic children.

Graduate Research Assistant | IUPUI

Effects of Social Media Usage on Postpartum Depression (PPD)

(Jul 2017 - Sep 2017)

- Produced a detailed analysis of how social networking sites (SNS) affect PPD through an online survey with 93 Bangladeshi women.
- Crafted design guidelines for tailoring SNSs to better support help-seeking and privacy for new mothers facing PPD.