

# Rahaf Alharbi

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## OVERVIEW

My research is at the intersection of accessibility, privacy, and responsible artificial intelligence (AI). Drawing from in-depth research with blind communities, my dissertation explores the possibilities and limitations of emerging AI-enabled privacy tools and transparency techniques. My research offers theoretical frameworks grounded in disability studies and disability justice activism, design recommendations to build accessible privacy and transparency systems, and policy implications. Outside of my dissertation project, I've led and collaborated on research related to accessible workplaces, multilingual captioning, and customizable assistive technologies. My scholarly works have appeared in several top-tier HCI venues such as ACM CHI, ASSETS and CSCW, and have garnered prestigious departmental and university-wide awards, including the Rackham Predoctoral Fellowship and the Gary M. Olson Outstanding PhD Student Award.

## EDUCATION

[University of Michigan, Ann Arbor, MI, USA](#) Aug. 2020 - Present

Ph.D. in [Information](#), specialized in Accessibility and Human-Computer Interaction

Affiliated with [Accessibility, HCI, Aging \(AHA!\)](#) and [Center for Ethics, Society, and Computing \(ESC\)](#)

Advisors: Dr. Robin Brewer and Dr. Sarita Schoenebeck

Dissertation topic: *Co-Imagining Privacy Futures With Blind People: The Case of Visual Assistive Technologies*

Committee: Sarita Schoenebeck (co-chair), Robin Brewer (co-chair), Ann Heffernan, and Cynthia Bennett

[University of California, San Diego, CA, USA](#)

Sep. 2015 - Mar. 2020

B.S. in [Mechanical Engineering](#) (minor in Ethnic Studies), GPA: 3.67/4.00

Fully funded by the KAUST Gifted Students Scholarship

## RESEARCH EXPERIENCE

[University of Michigan, Ann Arbor, MI, USA](#)

Aug. 2020 - Present

Graduate Research Assistant

- Led, designed, and conducted studies with over 70 people with disabilities to understand accessibility barriers, benefits, and trade-offs in various contexts such as AI assistance technologies and live streaming
- Collaborated with over 10 researchers across various institutions and departments (e.g., computer science and communication)
- Resulted in several first-authored and co-authored papers

[Meta, Menlo Park, CA, USA](#)

May 2023 - Aug. 2023

UX Research Intern (Responsible AI Team)

Manager: Dr. Amy Piedalue, collaborators: Dr. Jessica Heal, Dr. Ella Gamze Strack, and Dr. Chloé Bakalar

- Collaborated with UX team members and Chief Ethicist to design and conduct a foundational research study
- Performed an extensive literature review on internal and external research articles
- Collected and analyzed in-depth qualitative data
- Delivered implications that critically shaped Meta's Responsible AI approach to various teams, including directors and managers
- Published two internal research papers

[Microsoft Research, Redmond, WA, USA](#)

May 2022 - Aug. 2022

Research Intern (Ability Team)

Mentored by Dr. John Tang (at Microsoft Research) and Karl Henderson (at Experiences & Devices)

- Designed and conducted qualitative interviews with 21 professionals with disabilities to understand their experiences in hybrid meetings
- Uncovered the unique accessibility benefits, drawbacks, and conflicts of hybrid meetings
- Generated design implications to improve the accessibility of hybrid meetings and videoconferencing
- Resulted in a first-authored CHI 2023 paper

## PUBLICATIONS

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### • Peer-Reviewed Journals and Conference Publications\*

- [P7] **Misfitting With AI: How Blind People Verify and Contest AI Errors**  
Rahaf Alharbi, Pa Lor, Jaylin Herkovitz, Sarita Schoenebeck, Robin Brewer  
*To Appear in ASSETS 2024*  
Acceptance rate: 30%
- [P6] **ProgramAlly: Creating Custom Visual Access Programs via Multi-Modal End-User Programming**  
Jaylin Herskovitz, Andi Xu, Rahaf Alharbi, Anhong Guo  
*To Appear in UIST 2024*
- [P5] **Accessibility Barriers, Conflicts, and Repairs: Understanding the Experience of Professionals with Disabilities in Hybrid Meetings**  
Rahaf Alharbi, John Tang, Karl Henderson  
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), 2023  
Acceptance rate: 28.4%
- [P4] **Hacking, Switching, Combining: Understanding and Supporting DIY Assistive Technology Design by Blind People**  
Jaylin Herskovitz, Andi Xu, Rahaf Alharbi, Anhong Guo  
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI), 2023  
Acceptance rate: 28.4%
- [P3] **Denition drives design: Disability models and mechanisms of bias in AI technologies**  
Denis Newman-Griffis, Jessica Sage Rauchberg, Rahaf Alharbi, Louise Hickman, Harry Hochheiser  
First Monday, 2023
- [P2] **Understanding Emerging Obfuscation Technologies in Visual Description Services for Blind and Low Vision People**  
Rahaf Alharbi, Robin N. Brewer, Sarita Schoenebeck  
Proceedings of the ACM on Human-Computer Interaction (CSCW), 2022
- [P1] **Beyond Borders: Womens Perspectives on Harm and Justice after Online Harassment**  
Jane Im, Sarita Schoenebeck, Marilyn Iriarte, Gabriel Grill, Daricia Wilkinson, Amna Batool, Rahaf Alharbi, Audrey N. Funwie, Tergel Gankhuu, Eric Gilbert, Mustafa Naseem  
Proceedings of the ACM on Human-Computer Interaction (CSCW), 2022

### • Workshops & Special Interest Groups Organized

- [W3] **Organizing for More Just and Inclusive Futures: A Community Discussion**  
Kim Fernandes and Rahaf Alharbi, Cella M. Sum, Vaishnav Kameswaran, Franchesca Spektor, Ashique Ali Thuppilikkat, Adrian Petterson, Megh Marathe, Foad Hamidi and Priyank Chandra  
ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '24)
- [W2] **Bridging the Gap: Towards Advancing Privacy and Accessibility**  
Rahaf Alharbi, Robin Brewer, Gesu India, Lotus Zhang, Leah Findlater, Yixin Zou, and Abigale Stangl  
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'23)
- [W1] **Dreaming Disability Justice in HCI**  
Cella Sum, Rahaf Alharbi, Franchesca Spektor, Cynthia Bennett, Rua Williams, Katta Spiel, Christina Harrington  
ACM CHI Conference on Human Factors in Computing Systems - Extended Abstract (EA CHI'22)

### • Invited Articles

- [A1] **Challenging Ableism: A Critical Turn Toward Disability Justice in HCI**  
Cella Sum, Franchesca Spektor, Rahaf Alharbi, Leya Breanna Baltaxe-Admony, Erika Devine, Hazel Anneke Dixon, Jared Duval, Tessa Eagle, Frank Elavsky, Kim Fernandes, Leandro S. Guedes, Serena Hillman, Vaishnav Kameswaran, Lynn Kirabo, Tamanna Motahar, Kathryn E. Ringland, Anastasia Schaadhardt, Laura Scheepmaker, and Alicia Williamson  
XRDS, Summer 2024, VOL.30, NO.4

### • Selected Peer-Reviewed Workshop Papers and Extended Abstracts

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\*In the field of human-computer interaction, conference papers are rigorously peer-reviewed, archived, and considered to be prestigious.

- [WP4] **Speculating Perfect Algorithmic Reparations for Disability**  
Robin Brewer, [Rahaf Alharbi](#), Sarita Schoenebeck  
Algorithmic Repair Workshop, University of Michigan, 2022
- [WP3] **Care, Disability, & Live Streaming**  
[Rahaf Alharbi](#), Audrey Labrie  
Presented in The Future of Care Work: Towards a Radical Politics of Care in CSCW Research and Practice. CSCW 2021 Workshop
- [WP2] **On Obfuscation, Privacy & Visual Description: Rethinking Access Technology as Contested**  
[Rahaf Alharbi](#), Jasmine Duong, Robin Brewer, Sarita Schoenebeck.  
Presented in Artificially Intelligent Technology for the Margins: A Multidisciplinary Design Agenda CHI 2021 Workshop
- [WP1] **I Am Not an Engineer: Understanding How Clinicians Design & Alter Assistive Technology**  
[Rahaf Alharbi](#), Ada Ng, Rawan Alharbi, Josiah Hester  
ACM CHI Conference on Human Factors in Computing Systems - Extended Abstract (EA CHI'20)

## TEACHING EXPERIENCE

[University of Michigan](#), Ann Arbor, MI, USA

Teaching Assistant for Introduction to Accessibility (Graduate Level)

Fall 2021

## Invited Teaching

- [C4] **ARTG 6600: Design for Accessibility, Northeastern University, Winter 2024**  
*Invited by Dr. Maitraye Das*  
• Co-Imagining Privacy Futures with Blind People: The Case of Visual Assistance Technologies
- [C3] **SI 623: Research Methods for Information Professionals, University of Michigan, Winter 2024**  
*Invited by Yvette Ramirez & Dr. Melissa Chalmers*  
• Co-Imagining Privacy Futures with Blind People: The Case of Visual Assistance Technologies
- [C2] **SI 710: Algorithms, Discrimination, and Justice, University of Michigan, Fall 2022**  
*Invited by Dr. Sarita Schoenebeck*  
• Understanding Emerging Obfuscation Technologies in Visual Description Services
- [C1] **SI 552: Introduction to Accessibility, University of Michigan, Fall 2021**  
*Invited by Dr. Robin Brewer*  
• Understanding Emerging Obfuscation Technologies in Visual Description Services

## AWARDS AND HONORS

Gary M. Olson Outstanding PhD Student Award, UM School of Information	2024
Human Computer Interaction Consortium (HCIC) invite with travel funding	2024
Rackham Predoctoral Fellowship	2024-2025
<i>Most prestigious award offered by the University of Michigan, aimed to support dissertations that are "unusually creative, ambitious, and impactful"</i>	
UMSI Travel Grant x 2 (granted twice)	2023
Rackham Graduate School Travel Grant x 2 (granted twice)	2023
DEI Travel Grant from ACM SIGACCESS	2022
Mini grant from UM Initiative On Disability Studies (UMInDS)	2021
DEI Travel Grant from ACM SIGACCESS	2020
KAUST Gifted Student Scholarship (KGSP)	2015
<i>Awarded to top 1% of Saudi high school students for achievement in international science olympiads. Includes full tuition and stipends to pursue an undergraduate degree in the United States.</i>	

## TALKS AND PRESENTATIONS

- [T4] **Accessibility Barriers, Conflicts, and Repairs: Understanding the Experience of Professionals with Disabilities in Hybrid Meetings**  
• Presented research and product-oriented talks to various groups at Microsoft  
• Presented at CHI 2023

- [T3] **Understanding Emerging Obfuscation Technologies in Visual Description Services for Blind and Low Vision People**
  - Presented at Fourth Annual U-M Center for Disability Health and Wellness Research Symposium, 2023
  - Presented at the Michigan Interactive and Social Computing (MISC) research group, 2022
  - Presented at CSCW 2022
- [T2] **Understanding the Motivations and Practices of Disabled Live Streamers**
  - Co-presented at UMSI Lighting Talks at the Intersections of Information, Diversity, Inclusion and Equity. Ann Arbor, Michigan, 2021
- [T1] **I Am Not an Engineer: Understanding How Clinicians Design & Alter Assistive Technology**
  - Presented at the ACM Special Interest Group on Accessible Computing (SIGACCESS), Riyadh, 2020

## SERVICE AND LEADERSHIP

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### • Research Mentorship

<b>Graham Xavier</b> , Data Science Undergraduate	Fall 2024 - Present
<b>Angela Cheong</b> , UMSI Undergraduate	Winter 2024 - Present
<b>Pa Lor</b> , UMSI Masters, co-authored [P7]	Fall 2023 - Winter 2024
<b>Jasmine Duong</b> , UMSI Undergraduate, co-authored [W2]	Fall 2020 - Winter 2021

### • Service to the university

**Co-Coordinator & Reviewer for UMSI PhD Applicant Feedback Program** 2023  
 Assisted in assigning reviewers for over 50 underrepresented PhD applicants, and reviewed several applications.

**Making Research Communication Accessible Panel** 2023  
 Served as co-panelist at Michigan Interactive and Social Computing (MISC) research group to share accessibility practices for designing presentations.

**Community Advisory Board at the Motor & Visual Development Lab** 2023-2024  
 Served as a research and community advisor to the MVD lab at the School of Kinesiology (University of Michigan). My responsibilities included reviewing research projects, study design materials, and brainstorming projects that are inclusive of neurodivergent people.

**Neubacher Award Committee Member** 2023  
 Reviewed nominees and selected winners for the James T. Neubacher Award which is presented to University of Michigan faculty, students, and staff who empower people with disabilities, advocate for disability rights, and increase accessibility in the university.

**Co-Authoring Proposal to Increase UMSI Travel Funding** 2023  
 Assisted Doctoral Executive Committee (DEC) at UMSI to research and author a proposal to address equity concerns and increase travel funding for Ph.D. students who attend and present in conferences. As a result of our successful proposal, the current policy increased by a maximum of \$1300 from the original funding amount.

**Accessibility, HCI, Aging (AHA) Research Group at the University of Michigan** 2022 - 2023  
 Co-moderator of biweekly group meetings with faculty and students across the School of Information and the Computer Science & Engineering department.

**Personal Care Assistant Graduate Student Scholarship at the University of Michigan** 2021  
 My responsibilities included advertising and reviewing scholarship applicants.

**Disability Studies & HCI Reading Group at the University of Michigan** 2020 - 2021  
 Organizer.

**Services for Students with Disability Office at the University of Michigan** 2020 - 2021  
 Advisory Board.

### • Service to the field

**ACM Designing Interactive Systems (DIS)** 2022 - 2023  
 Assisted Accessibility Chairs (Robin Brewer and Cynthia Bennett) with numerous tasks such as co-authoring a [guide for creating accessible figures and tables](#), selecting accessibility services, and evaluating the in-person venue for access.

**ACM Conference On Computer-Supported Cooperative Work And Social Computing (CSCW)** 2021  
Student Volunteer (Day Lead): assigned tasks to various student volunteers and created a document for writing alternative texts on images shared on CSCW Twitter.

- Reviewing

**ACM CSCW** 2020 - Present  
2-3 reviews per year  
Associate Chair (AC) for posters in CSCW 2024

**ACM CHI** 2020 - Present  
2-3 reviews per year  
**Special Recognition for Outstanding Reviews in CHI 2022 & CHI 2024**

**ACM ASSETS** 2020 - Present  
1-2 workshop reviews per year

## SKILLS

**Methods:** Qualitative Analysis, Interviewing, Focus Groups, Co-design Workshops, Ethnography, Usability Testing, Quantitative Analysis, Survey

**Programming:** Python, MATLAB

**Languages:** English (fluent), Arabic (native)