Rahaf Alharbi

PHD STUDENT · UNIVERSITY OF MICHIGAN, SCHOOL OF INFORMATION

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Education

University of Michigan *Ann Arbor*
PHD IN INFORMATION *Aug. 2020 - present*
- Advisors: Dr. Robin Brewer & Dr. Sarita Schoenebeck
- Human-Computer Interaction, Accessibility, and Disability Studies
- Graduate Student Researcher Affiliate with Center for Ethics, Society, and Computing
- GPA: 4.0/4.0

University of California *San Diego*
BS IN MECHANICAL ENGINEERING *Aug. 2015 - Mar. 2020*
- Minor in Ethnic Studies
- Thurgood Marshall Honors College
- Eta Kappa Nu (IEEE-HKN) Honors Society
- KAUST Gifted Student Fellow
- GPA: 3.67/4.0

Publications

FULL PAPERS (PEER-REVIEWED, ARCHIVAL)

[P2]. **Alharbi, R.**, Brewer, R., Schoenebeck, S. Understanding Emerging Obfuscation Technologies in Visual Description Services for Blind and Low Vision People. (To appear in CSCW 2022)

[P1]. Im, J., Schoenebeck, S., Iriarte, M., Grill, G., Wilkinson, D., Batool, A., **Alharbi, R.**, Funwie, A., Gankhuu, T., Gilbert, E., Naseem, M. Beyond Borders: Women's Perspectives on Harm and Justice after Online Harassment. (To appear at CSCW 2022)

EXTENDED ABSTRACT (LIGHTLY PEER-REVIEWER, ARCHIVAL)

[A1]. **Alharbi, R**, Ng, A., Alharbi, R., & Hester, J. (2020, April). "I Am Not an Engineer": Understanding How Clinicians Design & Alter Assistive Technology. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (pp. 1-8).

WORKSHOP PROPOSALS & PAPERS

[W4]. Sum, C., **Alharbi, R.**, Bennett, C., Williams, R., Spiel, K., Harrington, C. Dreaming Disability Justice in HCI. Upcoming CHI 2022 Workshop.

[W3]. **Alharbi, R.**, Labrie, A., Care, Disability, & Live Streaming. Presented in The Future of Care Work: Towards a Radical Politics of Care in CSCW Research and Practice. CSCW 2021 Workshop

[W2]. **Alharbi, R.**, Duong, J., Brewer, R., & Schoenebeck, S. On Obfuscation, Privacy & Visual Description: Rethinking Access Technology as Contested. Presented in Artificially Intelligent Technology for the Margins: A Multidisciplinary Design Agenda CHI 2021 Workshop

[W1]. Schoenebeck, S., Im, J., Batool, A., Wilkinson, D., Funwie, A., **Alharbi, R.**, Iriarte, M., Grill, G., Gilbert, E., Naseem, M. Repairing Online Harms: Assessing Punitive and Reparative Justice Approaches. First Annual Conference of The Platform Governance Research Network. March 2021.

Awards, Fellowships, & Grants

2021	**Disability Studies Grant**, UM Initiative on Disability Studies (UMInDS)	*$ 200*
2020	**DEI Travel Grant**, ACM SIGACCESS	*$ 50*
2015	**KAUST Gifted Student Fellowship**, King Abdullah University for Science & Technology	*$ 200,000*

Presentations

* presenting author
+ mentored undergraduate

INVITED TALKS

[T4]. *Understanding the Motivations and Practices of Disabled Live Streamers*. Audrey Labrie & Rahaf Alharbi. UMSI Lighting Talks at the Intersections of Information, Diversity, Inclusion and Equity. Ann Arbor, Michigan. May 2021.

[T3]. *Privacy and Visual Description Applications*. Jasmine Duong[+] & Rahaf Alharbi. UMich Annual REU Symposium. Ann Arbor, Michigan. May 2021.

[T2]. *"I Am Not an Engineer": Understanding How Clinicians Design & Alter Assistive Technology*. Rahaf Alharbi[*], Ada Ng, Rawan Alharbi, Josiah Hester. SIGAccess Riyadh. June 2020.

[T1]. *Making PDFs and Slides Accessible*. Guest Lecture, Mechanical Engineering Senior Design, UC San Diego. March 2020.

Selected Research Experience

University of Michigan   *Ann Arbor, MI*
COLLABORATORS: DR. ROBIN BREWER & DR. SARITA SCHOENEBECK   *2020-*
- Designed and conducted an interview study with Blind and low vision people to understand their perspectives and opinions about emerging computer vision technologies for privacy management
- Engaged in critical algorithms studies literature & accessibility to qualitatively analyze transcripts
- Mentored undergraduate researcher on writing interview protocols and ethical practices when working with disabled people

University of Michigan   *Ann Arbor, MI*
COLLABORATORS: AUDREY LABRIE   *2021-*
- Designed and conducted an interview study to understand the motivations and challenges of disabled live streamers
- Engaged in feminist disability studies literature & accessibility to analyze qualitative data and propose design solutions

Northwestern University   *Chicago, IL*
COLLABORATORS: ADA NG, RAWAN ALHARBI, DR. JOSIAH HESTER   *2019*
- Designed and conducted an interview study to the experiences of novice clinical assistive technology makers
- Conducted participant observation in two making sessions
- Qualitatively analyzed data and proposed design solutions
- Resulted in CHI 2020 Extended Abstract publication

King Abdullah University for Science & Technology   *Thuwal, SA*
COLLABORATORS: DR. MIN SUK CHA   *2018*
- Designed and conducted an experimental fluid mechanics project
- Analyzed fluid speed-photography data & categorized three types of fluid representations

Teaching Experience

| Fall 2021 | **Introduction to Accessibility**, Teaching Assistant | *Ann Arbor, MI* |
| Spring 2019 | **Advanced Fluid Mechanics**, Grader | *San Diego, CA* |

Mentoring

2021-2022 **Ruotong Guo**, MS in Information, University of Michigan
2020-2021 **Jasmine Duong**, BS in Information, University of Michigan

Selected Engineering & Design Projects

Building & Designing Realistic ECMO Neonatal Simulations *San Diego, CA*
Sponsored by Rady Children Hospital & UC San Diego Mechanical Engineering *2019-2020*
- Led and conducted design sessions with surgeons and nurses to understand neonatal ECMO procedures
- Analyzed various material properties experimentally and qualitatively to optimize for realistic properties
- Aided team members in calculating fluid mechanics factor for pressure regulation and flow
- Final design resulted in a low-cost and reusable simulation system to be used as educational tools for surgeons and nurses
- Won UC San Diego Mecahnical Engineering Senior Design Runner Up award

Redesigning UCSD's Sexual Assault Resource Center (SARC) Website *San Diego, CA*
Design for America, UC San Diego *2019-2020*
- Guided team members with on-going ethical and trauma-informed check-ins throughout the design process
- Interviewed survivors and allies on information seeking and healing practices
- Produced a Design Report detailing changes and content suggestions for SARC's website based on the team's user research

Outreach & Professional Development

Service and Outreach

2021	**CSCW 2021**, Student Volunteer	*Virtual*
2021	**Personal Care Assistant Graduate Student Scholarship**, Committee Member	*Ann Arbor, MI*
2020-2021	**Disability & HCI Student Reading Group**, Organizer	*Ann Arbor, MI*
2020-2021	**Services for Students with Disability Office**, Advisory Board	*Ann Arbor, MI*

Peer Review

CHI2022 (Special Recognition for Outstanding Reviews)
DIS 2021, alt.chi 2021, CHI LBW 2021

alt.chi 2020 *with commentary appeared*: in Ymous, A., Spiel, K., Keyes, O., Williams, R. M., Good, J., Hornecker, E., & Bennett, C. L. (2020, April). "I am just terrified of my future" —Epistemic Violence in Disability Related Technology Research. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (pp. 1-16).

Skills & Courses

Research Methods: Interviewing, Digital Ethnography, Participatory Design, Survey, and User Testing.

Programming Languages: C, Python, MATLAB, HTML, CSS

Ph.D. Courses: Privacy & Information, Information Theory, Statistics, Disability Studies, Algorithms and their Societal Implications, Community-Based Research