Maitraye Das

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Research Summary

My research interest sits broadly at the intersection of Human-Computer Interaction (HCI), Accessible Computing, and AI, with a focus on enhancing accessibility in collaboration, creativity, and learning. Methodologically, I take a community-centered research approach that involves in-depth qualitative studies (e.g., interviews, contextual inquiry, and ethnographic fieldwork) followed by the iterative design, development, and evaluation of new accessible systems and interaction techniques. As a researcher and educator, my broader goal is to cultivate a culture of access and inclusion in computing and contribute towards reducing equity gaps in education, employment, and creative work.

Appointment

Northeastern University, Boston, MA, USA
Assistant Professor Jan 2024 – Present
Khoury College of Computer Sciences (75%)
Department of Art + Design (25%), College of Arts, Media and Design (CAMD)

Education

PhD in Technology and Social Behavior 2022
(Dual degree in Computer Science & Communication)
Northwestern University, Evanston, IL, USA
Dissertation: Designing for Accessible Collaborative Content Creation in Ability-Diverse Teams
Committee: Darren Gergle (chair), Anne Marie Piper (co-chair), Marcelo Worsley, and Cynthia Bennett

MS in Technology and Social Behavior 2021
Northwestern University, Evanston, IL, USA

BSc in Computer Science and Engineering (CSE) *with Honors* 2015
Bangladesh University of Engineering and Technology (BUET)
Thesis: Protecting Genomic Privacy in Medical Tests using Distributed Storage

Professional Experience

- **Northeastern University, Boston, MA**
  Sr. Research Fellow | Khoury College of Computer Sciences Sep 2023 – Dec 2023
  Visiting Assistant Professor | Khoury College of Computer Sciences Oct 2022 – Aug 2023
- **University of Washington, Seattle, WA** | Postdoctoral Scholar Sep 2022 – Aug 2023
  Paul G. Allen School of Computer Science and Engineering and
  Center for Research & Education on Accessible Technology & Experiences (CREATE)
- **Northwestern University, IL** | Graduate Research Assistant Sep 2017 – Aug 2022
- **Microsoft Research, WA** | Research Intern, Ability Team Summer 2020
- **United International University, Bangladesh** | Lecturer, Dept. of CSE Oct 2015 – Mar 2017

Grants

- *Google Research Scholar Award* (sole PI: $60,000) 2024

- *CAMD Strategic Research Priorities Seed Grant* ($9,992) 2025–2026
  Co-PI w/ Rebecca Kleinberger.
- *CAMD PhD Summer RA, Northeastern* (~$15,000) Summer 2025
  Co-PI w/ Smit Desai (lead), Miso Kim, and Dakuo Wang.
- *Khoury Research Apprenticeship, Northeastern* (PI) Spring 2024, Fall 2024, Spring 2025
  Support for three MS research assistants in three semesters
- *Postdoc Research Award* (sole PI: $10,000) 2022–2023
  Paul G. Allen School of Computer Science & Engineering, University of Washington
- *Graduate Research Grant* ($2,999) 2021–2022
  School of Communication, Northwestern University
- *Dissertation Research Grant* ($1,500) 2021
  Department of Communication Studies, Northwestern University

Awards and Honors

- *Communications of the ACM Research Highlights (CACM-RH) [P8]* 2022
  From ACM's website: "With a readership of over 100,000 from over 100 countries, publication in CACM-RH provides unmatched visibility and is regarded as a significant honor."
- *Advanced Rehabilitation Research and Training (ARRT) Postdoctoral Fellowship* 2022–2023
  UW Center for Research & Education on Accessible Technology & Experiences | Funding: NIDILRR
- *Donald H. and Carolyn E. Ecroyd Fellowship* 2022
  Department of Communication Studies, Northwestern University
- *Rising Star in Electrical Engineering and Computer Science (EECS)* 2021
- *Best Paper Award [P9]* 2021
  ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)
- *Recognition for Contribution to Diversity & Inclusion [P9]* 2021
  ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)
- *Best Paper Nomination [P8]* | ACM Conference of Computers & Accessibility (ASSETS) 2021
- *PhD Student Research Award* | Dept. of Computer Science, Northwestern University 2021
- *Best Paper Honorable Mention Award [P6]* 2020
  ACM Conference on Human Factors in Computing Systems (CHI)
- *Finalist (among top 20 students)* | Microsoft Research PhD Fellowship 2020
- *Best Paper Honorable Mention Award [P5]* 2019
  ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)
- *Best Paper Award [P1]* 2018
  IEEE International Conference on Computers, Software, & Applications (COMPSAC)
- *Student Scholarship* | Grace Hopper Celebration USA 2018
- *Best Undergraduate Thesis Award* | Dept. of CSE, Bangladesh U of Engg. & Tech 2015
- *Best Technical Poster [S1]* and *Student Scholarship* | Grace Hopper Celebration India 2014

- *Dean's List Award* and *University Merit Scholarship* | Bangladesh U of Engg. & Tech 2011–2015

Peer-Reviewed Publications

[Top-tier venues in Human-Computer Interaction include extensively peer-reviewed conferences such as CHI and CSCW. These highly selective conferences are intended for archival papers and comparable to journals in visibility, selectivity, and impact. Doctoral advisees are underlined and other directly mentored students are marked with a *.]

P19. Rudaiba Adnin, Atharva Pandkar, Bingsheng Yao, Dakuo Wang, **Maitraye Das**. 2025. Examining Student and Teacher Perspectives on Undisclosed Use of Generative AI in Academic Work. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25).* [acceptance rate: 25.1%]

P18. **Maitraye Das**, Megan Tran*, Amanda Ong*, Julie Kientz, and Heather Feldner. 2025. Cultivating Computational Thinking and Social Play Among Neurodiverse Preschoolers in Inclusive Classrooms. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25).* [acceptance rate: 25.1%].

P17. Aaleyah Lewis*, Jesse J Martinez, **Maitraye Das**, James Fogarty. 2025. Inaccessible and Deceptive: Examining Experiences of Deceptive Design with People Who Use Visual Accessibility Technology. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25).* [acceptance rate: 25.1%]

P16. Rudaiba Adnin and **Maitraye Das**. 2024. "I look at it as the king of knowledge": How Blind People Use and Understand Generative AI Tools. In *Proceedings of the International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '24)*, 14 pages. [acceptance rate: 30%]

P15. **Maitraye Das,** Abigale Stangl, and Leah Findlater. 2024. "That comes with a huge career cost": Understanding Collaborative Ideation Experiences of Disabled Professionals. In *Proceedings of the ACM on Human-Computer Interaction,* 8, CSCW1, 28 pages. [Impact Factor (2023): 4.06]

P14. **Maitraye Das**, Alexander J. Fiannaca, Meredith Ringel Morris, Shaun Kane, and Cynthia L. Bennett. 2024. From Provenance to Aberrations: Image Creator and Screen Reader User Perspectives on Alt Text for AI-Generated Images. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '24),* 21 pages. [acceptance rate: 26.3%]

P13. Kiley Sobel, **Maitraye Das**, Sara Behbakht, and Julie Kientz. 2024. Incloodle-Classroom: Technology for Inclusive Joint Media Engagement in a Neurodiverse Kindergarten Classroom. *In Transactions of Computer-Human Interaction (TOCHI)*, 45 pages. [Impact Factor (2023): 4.8]

P12. **Maitraye Das**, Darren Gergle, Anne Marie Piper. 2023. Simphony: Enhancing Accessible Pattern Design Practices among Blind Weavers. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '23)*, 19 pages. [acceptance rate: 28.39%]

P11. **Maitraye Das**, Thomas McHugh*, Anne Marie Piper, and Darren Gergle. 2022. Co11ab: Augmenting Accessibility in Synchronous Collaborative Writing for People with Vision Impairments. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '22)*, 18 pages. [first-round acceptance rate: 12.5%]

P10. **Maitraye Das,** Anne Marie Piper, and Darren Gergle. 2022. Design and Evaluation of Accessible Collaborative Writing Techniques for People with Vision Impairments. In *ACM Transactions on Computer-Human Interaction (TOCHI)*, Vol. 29, 2, 42 pages. [Impact Factor (2023): 4.8]

🏆 P9. **Maitraye Das,** John Tang, Kathryn E. Ringland, and Anne Marie Piper. 2021. Towards Accessible Remote Work: Understanding Work-from-Home Practices of Neurodivergent Professionals. In *Proceedings of the ACM on Human-Computer Interaction,* Vol. 5, CSCW1, 30 pages. [Impact Factor (2023): 4.06].
Best Paper Award (top 1%); **Recognition for Contribution to Diversity & Inclusion**

🎗 P8. Kelly Avery Mack, **Maitraye Das,** Dhruv Jain, Danielle Bragg, John Tang, Andrew Begel, Erin Beneteau, Josh Urban Davis, Abraham Glasser, Joon Sung Park, and Venkatesh Potluri. 2021. Mixed Abilities and Varied Experiences: A Group Autoethnography of a Virtual Summer Internship. In *Proceedings of the ACM Conference on Computers & Accessibility (ASSETS '21),* 13 pages. [acceptance rate: 29%]
Best Paper Nomination; Invited article in Communications of the ACM Research Highlights

P7. Katya Borgos-Rodriguez, **Maitraye Das,** and Anne Marie Piper. 2021. Melodie: A Design Inquiry into Accessible Crafting through Audio-Enhanced Weaving. In *ACM Transactions on Accessible Computing (TACCESS),* Vol. 14, 1, 30 pages. [Impact Factor (2023): 2.5]

🎗 P6. **Maitraye Das,** Katya Borgos-Rodriguez, and Anne Marie Piper. 2020. Weaving by Touch: A Case Analysis of Accessible Making. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '20),* 15 pages. [acceptance rate: 24.3%]
Best Paper Honorable Mention (Top 5% of submissions)

🎗 P5. **Maitraye Das,** Darren Gergle, and Anne Marie Piper. 2019. "It doesn't win you friends": Understanding Accessibility in Collaborative Writing for People with Vision Impairments. In *Proceedings of the ACM on Human-Computer Interaction*, Vol. 3, CSCW, 26 pages. [Impact Factor (2023): 4.06]
Best Paper Honorable Mention (Top 5% of submissions)

P4. **Maitraye Das,** Brent Hecht, and Darren Gergle. 2019. The Gendered Geography of Contributions to OpenStreetMap: Complexities in Self-Focus Bias. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19)*, 14 pages. [acceptance rate: 23.8%]

P3. Nusrat Jahan Mazumder*, **Maitraye Das,** Tanzima Hashem, Sharmin Afrose, and Khandaker Ashrafi Akbar*. 2019. Towards Privacy-preserving Authenticated Disease Risk Queries. In *Journal of Information Processing*, Vol. 27 (September 2019), 18 pages. [Impact Factor (2023): 0.47]

P2. Moushumi Sharmin, Monsur Hossain, Abir Saha, **Maitraye Das,** Margot Maxwell, and Shameem Ahmed. 2018. From Research to Practice: Informing the Design of Autism Support Smart Technology. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18)*, 16 pages. [acceptance rate: 25%]

🏆 P1. **Maitraye Das,** Nusrat Jahan Mazumder*, Sharmin Afrose, Khandaker Ashrafi Akbar*, and Tanzima Hashem. 2018. A Novel Secret Sharing Approach for Privacy-Preserving Authenticated Disease Risk Queries in Genomic Databases. In *Proceedings of the 42nd IEEE International Conference on Computers, Software, & Applications (COMPSAC '18)*, 10 pages. [acceptance rate: 24%]
Best Paper Award

Book Chapter

B1. **Maitraye Das,** Katya Borgos-Rodriguez, and Anne Marie Piper. 2023. A Case Study of Skilled Craftwork among Blind Fiber Artists. In Elizabeth Guffey ed. *After Universal Design: The Disability Design Revolution.* Bloomsbury.

Workshops Co-organized

W3. Tamanna Motahar, Vaishnav Kameswaran, Sara Moin, Vikram Kamath Cannanure, **Maitraye Das**, Giulia Barbareschi, Laura Sanely Gaytán-Lugo, Aditya Vashistha, Kurtis Heimerl, Syed Ishtiaque Ahmed, Neha Kumar, Nova Ahmed, and Maya Cakmak. 2025. Accessibility Research Across Borders: Collaboration and Community Building in Accessibility and ICTD Research. In *Proceedings of the Conference on Computers and Accessibility (ASSETS '25)*.

W2. Cynthia Bennett, **Maitraye Das**, Michael Madaio, Abigale Stangl. 2023. Intro to Popular Generative AI Tools: Opportunities and Challenges for Accessibility. In *Accessible Technology Conference hosted by the New York Public Library.*

W1. Maryam Bandukda, Giulia Barbareschi, Aneesha Singh, Dhruv Jain, **Maitraye Das,** Tamanna Motahar, Jason Wiese, Lynn Cockburn, Amit Prakash, David Frohlich, Catherine Holloway. 2022. A Workshop on Disability Inclusive Remote Co-Design. In *Proceedings of the ACM Conference on Computers & Accessibility (ASSETS '22).*

Magazine Articles

M2. Kelly Avery Mack, **Maitraye Das,** Dhruv Jain, Danielle Bragg, John Tang, Andrew Begel, Erin Beneteau, Josh Urban Davis, Abraham Glasser, Joon Sung Park, and Venkatesh Potluri. 2023. Mixed Abilities and Varied Experiences: A Group Autoethnography of a Virtual Summer Internship. In *Communications of the ACM* 66, 8 (August 2023).

M1. Maria Hamdani, Najma Farrukh Hamdani, **Maitraye Das.** *2023.* How to Enhance Productivity of Your Employees with ADHD in the Virtual Workplace. In *MIT Sloan Management Review.*

Archival Short Papers

S6. **Maitraye Das.** 2020. Designing for Collaborative Content Creation for People with Vision Impairments. In the *Conference Companion Publication on Computer Supported Cooperative Work & Social Computing (CSCW '20).* [Doctoral Consortium]

S5. **Maitraye Das.** 2018. Understanding Collaborative Writing Practices of People with Visual Impairments. In the *ACM International Conference on Pervasive & Ubiquitous Computing (UbiComp '18).*

S4. Abir Saha and **Maitraye Das.** 2017. Impact of Social Networking on Post-Partum Depression in Women: An Analysis in the Context of Bangladesh. In *Proceedings of the 20th IEEE International Conference on Computer & Information Technology (ICCIT '17).*

S3. **Maitraye Das** and Abir Saha. 2017. An Automated Speech-Language Therapy Tool with Interactive Virtual Agent and Peer-to-Peer Feedback. In *Proceedings of the 4th International Conference on Advances in Electrical Engineering (ICAEE '17).*

S2. Fatema Khan*, **Maitraye Das,** and Ahiya Ahammed*. 2016. PurpleAid: An mHealth Platform to Combat Health Hazards of Women. In *Proceedings of the 2016 International Conference on Medical Engineering, Health Informatics & Technology (MediTec '16).*

S1. **Maitraye Das,** Sunandita Sarker, and Syeda Lammim Ahad. 2016. A Novel Health Support System with Biometric Data Acquisition Device. In *Proceedings of the 19th International Conference on Computer & Information Technology (ICCIT '16).*

Non-Archival Short Papers, Posters, and Presentations

nS11. **Maitraye Das.** 2024. From Practice to Perception: How Blind People Use and Understand Generative AI. In *American Foundation for the Blind Leadership Conference 2024*.

nS10. **Maitraye Das.** 2021. Augmenting Ability-Diverse Collaboration. In *EECS Rising Stars Workshop*.

nS9. **Maitraye Das.** 2021. Designing for Accessible Collaborative Content Creation for People with Vision Impairments. In *Human-Computer Interaction Consortium (HCIC '21).*

nS8. **Maitraye Das.** 2021. Rethinking Power and Politics in Care Work within Ability-Diverse Maker Communities. In the *Workshop on The Future of Care Work at the ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '21).*

nS7. **Maitraye Das,** Katya Borgos-Rodriguez, and Anne Marie Piper. 2020. Rethinking Power and Politics in Accessible Making. In the *Workshop on Investigating the Role of Critical Disability Studies in HCI at the ACM Conference on Human Factors in Computing Systems (CHI '20).*

nS6. **Maitraye Das.** 2019. Who Can See What: Privacy and Audience Management for People with Vision Impairments on Social Media. In the *Workshop on Accessibility of Social Media at the ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '19).*

nS5. **Maitraye Das.** 2019. Designing for Collaborative Content Creation for People with Vision Impairments. *Microsoft Research PhD Fellowship Finalist Presentation*, Redmond, WA, USA.

nS4. **Maitraye Das.** 2018. Towards Understanding the Effects of Social Networking on Postpartum Depression in Women. *Grace Hopper Celebration (GHC)*, USA.

nS3. Fatema Khan* and **Maitraye Das**. 2016. SafeTeens: Supporting Parental Monitoring of Children's Internet Activities. In *ACM Student Research Competition, Grace Hopper Celebration (GHC)*, USA.

nS2. **Maitraye Das,** Sharmin Afrose, and Tanzima Hashem. 2015. Protecting Genomic Privacy in Medical Tests using Distributed Storage. *Grace Hopper Celebration (GHC)*, USA.

🏆 nS1. **Maitraye Das,** Sunandita Sarker, and Shahina Ferdous. 2014. SpeechAid: A Self-treatment System for Individuals with Speech Disorder. *Grace Hopper Celebration India (GHCI).*
Best Technical Poster Award

Teaching and Course Design

Northeastern University

- CS 2484 – Principles of Human-Computer Interaction | Khoury College of CS — Fall '25
  An undergrad level course that introduces the foundational principles of HCI for 4 credit hours. (47 undergrads; 2 TAs)
- CS 7390 – Special Topics in Human-Centered Computing | Khoury College of CS — Fall '24
  Developed and taught a grad level course on Accessible Computing for 4 credit hours. (9 PhD students; 1 TA)
- ARTG 6600 –Experience Design Studio 2 | Dept of Art + Design — Spring '24, Spring '25
  Developed and taught a grad level course on Design and Disability for 4 credit hours. Spring '24: 10 MS students. Spring '25: 9 MS students

University of Washington

- HCDE 596 - Directed Research Group | Human-Centered Design & Engineering — Spring '23, Fall '23

Mentored 6 students in research activities. Led with Julie Kientz

Northwestern University

- *COMP_SCI 314/COMM_ST 351 – Technology & Human Interaction* (56 students) Winter '22
  Teaching assistant with Darren Gergle | Dept. of Computer Science / Communication Studies

United International University (UIU), Dhaka, Bangladesh Oct '15 - Mar '17
Lecturer/Instructor | Department of Computer Science & Engineering (CSE)

- CSE 313 – Computer Architecture | Fall '15: 29 students
- CSE 225 – Digital Logic Design
  Fall '15: 27 students; Summer '16: 26 students; Fall '16: 54 students in two classes
- CSE 226 – Digital Logic Design Laboratory
  Fall '15: 77 students in three classes; Spring '16: 29 students
  Summer '16: 49 students in two classes; Fall '16: 40 students in two classes
- CSE 236 – Assembly Programming Laboratory
  Spring '16: 15 students; Summer '16: 29 students
- CSE 113 – Electrical Circuits
  Spring '16: 67 students in two classes; Summer '16: 18 students; Fall '16: 31 students

Invited Talks, Panels, Guest Lectures, and Demonstrations

Talk: *Toward Inclusive Futures: Reimagining Collaboration, Creativity, and Learning through Accessible Technologies* June 2025

- University of Illinois Urbana-Champaign | Invited by *Yun Huang*

Workshop attended: *Generative AI and Accessibility: Surfacing Opportunities and Risks* Apr 2025

- CHI 2025 | Organized by *Kate Glazko, Mina Huh, Jazette Johnson, Amy Pavel,* and *Jennifer Mankoff*

Panel: *Disability and Design Futures* | Center for Design, Northeastern University Mar 2024

- Hosted by *Sara Hendren* | Other panelists: Meryl Alper and Laura Forlano (link)

Guest Lecture: *Designing Accessible Technologies for Collaborative Content Creation*

- Course: Computer/Human Interaction | Northeastern, CS | Invited by *Herman Saksono* Mar 2024
- Course: Engineering for Disability | Northeastern, MIE | Invited by *Megan Hofmann* Mar 2024
- Course: Intro to Accessibility | U Michigan School of Information | Invited by *Robin Brewer* Oct 2023

Demo: *Cultivating Computational Thinking among Neurodiverse Preschoolers*

- University of Washington | Spring Research Showcase by CREATE Jun 2023
- University of Washington | ARRT External Advisory Board Meeting Jun 2023

Talk: *Designing for Accessible Collaborative Content Creation in Ability-Diverse Teams*

- CMU HCI Institute | A11y Lunch | Invited by BigLab (director: *Jeffrey Bigham*) Mar 2023
- University of Washington | Makeability Lab | Invited by *Jon Froehlich* Dec 2022
- University of Washington | DUB seminar | Invited by *James Fogarty* Nov 2022
- University of Illinois Urbana-Champaign | Department of Computer Science Apr 2022
- Pennsylvania State University | College of Information Sciences & Technology Mar 2022
- Virginia Tech | Department of Computer Science Mar 2022
- University of Utah | School of Computing Mar 2022
- Johns Hopkins University | Department of Computer Science Mar 2022
- Indiana University Bloomington | Luddy School of Informatics, Computing, & Engg. Mar 2022

- Northeastern University | Khoury College of Computer Sciences — Feb 2022
- Georgia Institute of Technology | Department of Interactive Computing — Feb 2022
- Ohio State University | Department of Computer Science & Engineering — Feb 2022
- Arizona State University | School of Computing & Augmented Intelligence — Feb 2022
- George Mason University | Department of Computer Science — Feb 2022
- New Jersey Institute of Technology | Department of Informatics — Feb 2022
- MIT CSAIL | Visualization Group | Invited by *Arvind Satyanarayanan* — Dec 2021
- University of Washington | CREATE — Oct 2021

Talk: *Understanding Accessibility in Collaborative Writing for People with Vision Impairments*
- Microsoft Office and Windows Accessibility Teams — Feb 2021

Guest Lecture: *Understanding Accessibility in Collaborative Writing*
- Input & Interaction Course | U of Washington iSchool | Invited by *Annuska Zolyomi* — Nov 2020

Talk: *Understanding Accessibility in Remote Work for Neurodivergent Professionals*
- New Future of Work Group | Microsoft — Sep 2020

Talk: *Designing for Accessible Interaction*
- Bangladesh HCI and ICTD Study and Research Group | Invited by *Syed Ishtiaque Ahmed* — Apr 2020

Demo: *Technologies for Accessible Collaborative Writing and Weaving*
- TSB Prospective PhD Students Visiting Weekend | Northwestern University — 2022, 2019

Professional Service

Organizing Committee Member

ACM ASSETS (Conference on Computers & Accessibility) | Doctoral Consortium Co-Chair — 2025
ACM ASSETS | Accessibility Co-Chair — 2024

Program Committee Member

ACM CHI | Associate Chair, Accessibility and Aging Subcommittee — 2025, 2026
ACM CHI | Associate Chair, Learning, Education, and Families Subcommittee — 2024
ACM CHI | Associate Chair, Understanding People: Qual Methods Subcommittee — 2023
ACM ASSETS — 2022, 2023, 2025
ACM COMPASS (Conference on Computing & Sustainable Societies) — 2021
Grace Hopper Celebration, HCI Track — 2021

Reviewer: Grant and fellowship proposals

National Science Foundation (NSF), Panelist (x3) — 2024, 2025

Reviewer: Conferences

ACM CHI [*outstanding review recognitions: 7] — 2021 – Present
ACM CSCW [*outstanding review recognitions: 2] — 2019 – 2021, 2023
ACM DIS [*outstanding review recognition: 1] — 2020, 2022
ACM UIST [*outstanding review recognition: 1] — 2022, 2025
IEEE COMPSAC — 2021
Grace Hopper Celebration — 2017
Australasian Database Conference — 2016

Reviewer: Journals

ACM TOCHI (Transactions of Computer-Human Interaction) — 2023, 2025
ACM TACCESS (Transactions on Accessible Computing) — 2021, 2024

Springer CSCW (Computer Supported Cooperative Work) 2022

Student Volunteer

ACM CHI 2019, 2021
ACM CSCW 2019
ACM UbiComp (International Conference on Pervasive & Ubiquitous Computing) 2018

University Service

At Northeastern University

Member | Khoury ADA committee (teaching subcommittee) 2025
Organizer | Panel: The future of HCC at Northeastern and beyond March 2025
Member | Khoury PhD admission committee 2024 – 2025
Reviewer | Computer Science PhD admission, Khoury 2023 – Present
Reviewer | Interdisciplinary Design and Media PhD admission, CAMD 2023 – Present
Reviewer | Tier 1 grant proposals, Khoury 2024

At University of Washington

Reviewer | CREATE research proposals on race, technology, and disability 2023
Judge | HCDE graduate capstone showcase 2023
Co-organizer | CREATE Holiday Party 2022
Judge | CSE 440 – Intro to HCI course poster showcase 2022

At Northwestern University

Panelist | TSB Prospective PhD Students Visiting Weekend 2018, 2021
Publicity Co-chair and Planning Committee Member | InfoSocial Graduate Conference 2019
Student volunteer | InfoSocial Graduate Conference 2018

Advising

Doctoral Advising:

- Mingyi Li | PhD student, CS Northeastern Sep 2024 – Present
- Qiushi Liang | PhD student, CS, Northeastern Mar 2024 – Present
- Rudaiba Adnin | PhD student, CS, Northeastern Mar 2023 – Present
  Coauthored papers: [P16, P19]

Additional Graduate Research Advising and Mentoring:

- Yutian Shi | MS student, CS, UC San Diego Jun 2025 – Present
- Lahari Boni | MS student, CS, Northeastern (Khoury Apprenticeship) Jan – Apr 2025
- Vinayaka Hosahalli Kotrappa | MS student, CS, Northeastern Jun – Dec 2024
- Pranali Pravin Chipkar | MS student, CoE, Northeastern Jun – Dec 2024
- Huiru Yang | MS student, CS, Northeastern (Khoury Apprenticeship) Jan – Dec 2024
  Huiru, Nihar, and Qiuying's project on accessible whiteboarding received the first prize in the Papers2Products hackathon as the overall product and the most interdisciplinary entry ($3,500 total)
- Nihar Sanda | MS student, CS, Northeastern (selected for Khoury Apprenticeship) Jan – Dec 2024
- Qiuying Zhuo | MS Student, CS Northeastern Feb – Apr 2024
- Liyi (Shelley) Xu | MS student, METALS, CMU Jun – Aug 2024
- Ruiqi (Richard) Chen | MS student, HCDE, UW May – Aug 2024
- Aaleyah Lewis | PhD student, CSE, UW | Coauthored paper: [P17] Oct 2022 – Sep 2023
- Bonnie Liu | MS student, HCDE, UW Jun – Dec 2023
- Katrina Vergara | MS student, HCDE, UW Jun – Aug 2023

- Patricia Ho | MS student, HCDE, UW — Apr – Jun 2023
- Ke Luka Liu | MS student, HCDE, UW — Apr – Jun 2023
- Ganesh Karthik Sankar | MS student, HCDE, UW — Jan – Mar 2022
- Evan Li | MS student, Mechanical Engineering, Northwestern — 2020

Undergraduate and Highschooler Research Advising and Mentoring:

- Ayan Makode | Undergrad, Game Design and Music, Northeastern — Feb – May 2025
- Sydney McCarter | Undergrad, CS and Design, Northeastern — Feb – Apr 2025
  Design degree project on aesthetics and accessibility in design
- Megan Tran | Undergrad, Informatics, UW | Coauthored paper: [P18] — Jun 2023 – Apr 2024
- Amanda Ong | Undergrad, Interaction Design, UW | Coauthored paper: [P18] — Jun 2023 – Apr 2024
- Thomas McHugh | Undergrad, Learning Sciences, Northwestern — 2020 – 2021
  Coauthored paper: [P11]. Own the first place at the ACM Student Research Competition (SRC) at ASSETS 2020 and SRC Grand Finals 2021. Next position: Software engineer, Apple.
- Rawan Mohamed | Undergrad, CS, Northwestern — 2020
- Caroline Brewley | High school student researcher — 2019
- Nusrat Jahan Mazumder | Undergrad, CSE, Bangladesh U of Engg. & Tech — 2017–2018
  Coauthored papers: [P1, P3]. Next position: PhD student, University of Virginia.
- Khandaker Ashrafi Akbar | Undergrad, CSE, Bangladesh U of Engg. & Tech — 2017–2018
  Coauthored papers: [P1, P3]. Next position: PhD student, University of Texas at Dallas.
- Fatema Khan | Undergrad, CSE, United International University — 2016
  Coauthored papers: [S2, nS3]. Next position: Lecturer, Prime Asia University, Bangladesh.
- Ahiya Ahammed | Undergrad, CSE, United International University — 2016
  Coauthored paper: [S2]. Next position: PhD student, University of Debrecen, Hungary.

Outreach & Memberships

Institutional Partner (Northeastern) | AccessComputing Alliance — 2024 – Present

Mentor | #HackDisability: AI for Accessibility hosted by Perkins School for the Blind and MIT — 2024

Co-host & Co-organizer | Inspiring Stories (podcast series on Bangladeshi women in STEM) — 2020 – 2021

Member

Association for Computing Machinery (ACM) — 2017 – Present
Special Interest Group on Computer-Human Interaction (SIGCHI) — 2017 – Present
Special Interest Group on Accessible Computing (SIGACCESS) — 2017 – Present
Northwestern Graduate Women in Computing — 2019 – 2021
Bangladeshi Women in Computer Science & Engineering — 2015 – 2019

Code Coach Volunteer

BraveCamp Chicago, Brave Initiatives (non-profit coding camp for high school girls) — Summer 2018

Vice-President | Murchhona: BUET (cultural club) — 2014 – 2015

Press

- Maitraye Das earns Google research award for designing tech for blind and low-vision people.
  Khoury News — Aug 2024
- Disability and Design Futures: Interdisciplinary Perspectives on Design for Access.
  Center for Design @Northeastern — Sep 2024