

## Hasan Mahmud Prottoy

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## Education

2021-Present	<b>Ph.D.</b> , Human-Centered Computing, University of Maryland, Baltimore County (UMBC) Advisor: <b>Dr. Foad Hamidi</b> <b>Dissertation title:</b> Investigating the Use and Appropriation of Digital Technology in Contexts of Infrastructural Limitations
2021-23	<b>M.S.</b> , Human-Centered Computing, University of Maryland, Baltimore County (UMBC)
2014-19	<b>B.Sc.</b> , Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology (BUET)

## Employment

2021- Ongoing	<b>Ph.D. Researcher</b> , <a href="#">Designing pAticipatory futuREs (DARE) Lab</a> , University of Maryland, Baltimore County (UMBC), (Advisor: <a href="#">Dr. Foad Hamidi</a> )
Fall 21-Fall 24	<b>Graduate Teaching Assistant</b> , <b>IS 805</b> (Advanced Field Research Methods), <b>COMP 101</b> (Computational Thinking and Design), and <b>IS 303</b> (Fundamentals of Human-Computer Interaction), UMBC.
Jan 25-March 25	<b>Lab Manager</b> , <b>User Studies Lab</b> , Department of Information Systems, UMBC.
Apr 21-Jul 21	<b>Consultant</b> , Documentation, BRAC Institute of Education and Development.
2017-2020	<b>Contributor</b> , The Daily Star, Dhaka Bangladesh

## Awards & Honors

2025	COEIT Research Day 2025 <b>Student Award</b> , College of Engineering and Information Technology, UMBC
2024	<b>Travel Grant</b> for attending <b>Doctoral Consortium</b> at ACM International Conference on Supporting Group Work 2025 (GROUP 25) from NSF
2019	<b>Best Paper Honorable Mention</b> , ACM CHI Conference on Human Factors in Computing Systems 2019 (CHI 19)
2013	<b>Government Scholarship</b> , Higher Secondary School Certificate Examination 2013 (HSC 13) from Government of Bangladesh

## Publications

 Google Scholar

### Journal Articles

- J1. **Prottoy, Hasan Mahmud**, Gyi, S. & Hamidi, F. Transcending Transit Deserts: Participatory Design of Interactive Bicycling Advocacy Tools in an American City. *Proc. ACM Hum.-Comput. Interact.* **9**. <https://doi.org/10.1145/3701213> (Jan. 2025).
- J2. **Prottoy, Hasan Mahmud**, Yao, Y. & Hamidi, F. "If We Had the Option": Infrastructuring for Access to Online Subscription-Based Services in Bangladesh. *Proceedings of the ACM on Human-Computer Interaction* **9**. To appear on April 2025 issue of CSCW, 28. <https://shorturl.at/X3ea5> (Apr. 2025).
- J3. Stamato, L., Higgins, E., **Prottoy, Hasan Mahmud**, Asgarali-Hoffman, S. N., Scheifele, L., Dusman, L., deCarvalho, T., Ascencio, T. & Hamidi, F. Raaz: A Transdisciplinary Exploration at the Intersection of Bioart, HCI, and Community Engagement. *Frontiers in Computer Science* **4**. ISSN: 2624-9898. <https://www.frontiersin.org/journals/computer-science/articles/10.3389/fcomp.2022.830959> (2022).

### Peer-reviewed Conference Proceedings

- C1. **Prottoy, Hasan Mahmud**. *Investigating the Use and Appropriation of Digital Technology in Contexts of Infrastructural Limitations in Companion Proceedings of the 2025 ACM International Conference on Supporting Group Work* (Association for Computing Machinery, Hilton Head, South Carolina, USA, 2025), 115–117. ISBN: 9798400711879. <https://doi.org/10.1145/3688828.3699654>.
- C2. Stamato, L., **Prottoy, Hasan Mahmud**, Higgins, E., Scheifele, L. Z. & Hamidi, F. *Message in a Bottle: Investigating Bioart Installations as a Transdisciplinary Means of Community Engagement in Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems* (Association for Computing Machinery, Honolulu, HI, USA, 2024). ISBN: 9798400703300. <https://doi.org/10.1145/3613904.3642339>.
- C3. **Prottoy, Hasan Mahmud**, Stamato, L. & Hamidi, F. "Critical questions are missing": Perspectives of environmental justice activists of Bangladesh on justice and technology in *Ninth Computing within Limits 2023* (2023). <https://doi.org/10.21428/bf6fb269.d81e72c1>.
- C4. Rifat, M. R., **Prottoy, Hasan Mahmud** & Ahmed, S. I. *Putting the Waz on Social Media: Infrastructuring Online Islamic Counterpublic through Digital Sermons in Bangladesh in Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems* (Association for Computing Machinery, New Orleans, LA, USA, 2022). ISBN: 9781450391573. <https://doi.org/10.1145/3491102.3502006>.
- C5. Rifat, M. R., **Prottoy, Hasan Mahmud** & Ahmed, S. I. *The Breaking Hand: Skills, Care, and Sufferings of the Hands of an Electronic Waste Worker in Bangladesh in Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* 🏆 Awarded for Best Paper Honorable Mention (Association for Computing Machinery, Glasgow, Scotland Uk, 2019), 1–14. ISBN: 9781450359702. <https://doi.org/10.1145/3290605.3300253>.

## Working papers

- W1. Stamato, L., Khoo, Y. X., **Prottoy, Hasan Mahmud** & Hamidi, F. *Relational, Anti-Technosolutionist Machines: An EJ for HCI Perspective* Submit @ ACM COMPASS. 2025.

## Presentations

### Talks

- T1. **Prottoy, Hasan Mahmud**. *Human-Centered and Participatory Approaches Toward Physical Computing* College of Information, University of Maryland (College Park, Maryland, USA). 2025. <https://ischool.umd.edu/events/human-centered-and-participatory-approaches-toward-physical-computing/>.
- T2. **Prottoy, Hasan Mahmud**. *Transcending Transit Deserts: Participatory Design of Interactive Bicycling Advocacy Tools in an American City* 2025 ACM International Conference on Supporting Group Work (Hilton Head Island, South Carolina, USA). Jan. 2025.
- T3. **Prottoy, Hasan Mahmud**. “Critical questions are missing”: *Perspectives of environmental justice activists of Bangladesh on justice and technology* Ninth Computing within Limits 2023 (Virtual). 2023.
- T4. **Prottoy, Hasan Mahmud**. *Understanding account sharing practices for online resources* WIP talk, Capital-Area Colloquium on Trustworthy and Usable Security/Privacy 2021. (CAC-TUS/P) (University of Maryland, College Park, Maryland, USA). Dec. 2021.

### Posters

- P1. **Prottoy, Hasan Mahmud**. *Investigating the Use and Appropriation of Digital Technology in Contexts of Infrastructural Limitations* 2025 ACM International Conference on Supporting Group Work (Hilton Head Island, South Carolina, USA,) Jan. 2025.
- P2. **Prottoy, Hasan Mahmud**, Yao, Y. & Hamidi, F. *Infrastructuring for Access to Online Subscription-Based Services in Bangladesh* (COEIT Research Day), UMBC (Baltimore, MD, USA). 🏆 Student Award. 2025.
- P3. **Prottoy, Hasan Mahmud**, Gyi, S. & Hamidi, F. *Transcending Transit Deserts: Participatory Design of Interactive Bicycling Advocacy Tools in an American City* (COEIT Research Day), UMBC (Baltimore, MD, USA). Apr. 2024.
- P4. **Prottoy, Hasan Mahmud**, Stamato, L. & Hamidi, F. “It would have been so much easier if people would really listen to the main sufferers”: *Perspectives of environmental justice activists of Bangladesh on justice and technology* UMBC Information Systems Department Student Research Symposium (Baltimore, MD, USA). Apr. 2023.

## Professional and Community Service

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| 2023 | <b>Reviewer</b> , ACM SIGCHI Conference on Computer-Supported Cooperative Work (CSCW 2023) |
| 2023 | <b>Reviewer</b> , ACM SIGCHI Conference on Designing Interactive Systems (DIS 2023)        |

2024	<b>Reviewer</b> , ACM SIGCHI Conference on Human Factors in Computing Systems ( <b>CHI 2024</b> )
2025	<b>Reviewer</b> , ACM Conference on Supporting Group Work ( <b>GROUP 25</b> )
2025	<b>Reviewer</b> , 5th Biennial African Human Computer Interaction Conference ( <b>AfriCHI 25</b> )
Fall 22, Spring 23	<b>FIKA Committee</b> , Interactive Systems Research Center, UMBC (Scheduling, organizing, and arranging invited talks)
2022	<b>Volunteer</b> , South Baltimore Community Land Trust - <b>SBCLT</b> (Public outreach)
2021	<b>Student Volunteer</b> , ACM SIGACCESS Conference on Computers and Accessibility ( <b>ASSETS 2021</b> )
2016 – 2018	<b>Volunteer</b> , IEEE BUET Student Branch (at talks, workshops, and conferences)
2022–2023	<b>Media Coordinator, Executive Committee</b> , Bangladesh Student Association (BSA), UMBC

## Teaching Experience

### Guest Lecturing

Fall 2022	<b>Guest Lecturer</b> , <i>Goals of Interaction Design</i> , IS 303
Spring 2023	<b>Guest Lecturer</b> , <i>The User-Centered Design Process</i> , IS 303
Fall 2023	<b>Guest Lecturer</b> , <i>Introduction to Research and Grad School</i> , COMP 101
Spring 2024	<b>Guest Lecturer</b> , <i>Introduction to Research and Grad School</i> , COMP 101
Fall 2024	<b>Guest Lecturer</b> , <i>Qualitative Data Analysis</i> , IS 805
Fall 2024	<b>Workshop Co-Organizer</b> , <i>Nvivo Workshop for Qualitative Data Analysis</i> , IS 805 (Co-organized with Lydia Stamato)

### Graduate Teaching Assistant

Fall 2024	<b>Graduate Teaching Assistant</b> , IS 805 (Advanced Field Research Methods)
Fall 2023	<b>Graduate Teaching Assistant</b> , COMP 101 (Computational Thinking and Design)
Spring 2024	<b>Graduate Teaching Assistant</b> , COMP 101 (Computational Thinking and Design)
Fall 2021	<b>Graduate Teaching Assistant</b> , IS 303 (Fundamentals of Human-Computer Interaction)
Spring 2022	<b>Graduate Teaching Assistant</b> , IS 303 (Fundamentals of Human-Computer Interaction)
Fall 2022	<b>Graduate Teaching Assistant</b> , IS 303 (Fundamentals of Human-Computer Interaction)
Spring 2023	<b>Graduate Teaching Assistant</b> , IS 303 (Fundamentals of Human-Computer Interaction)

## Design Training

June–July 2019	<p>Workshop on <b>Design Workshop</b> (User-Centric Design, Value-Sensitive Design, Adversarial Design, Non-Linear Design)</p> <p>Conducted by: <b>Dr. Syed Ishtiaque Ahmed</b>, Assistant Professor, University of Toronto</p> <p>Organized by BUET &amp; UofT at IAC, BUET</p> <p><a href="https://sites.google.com/view/designwork2019/">https://sites.google.com/view/designwork2019/</a></p>
2019	<p><b>Doing Visual Politics</b> (Reconsidering the political dimensions of visual practices)</p> <p>Conducted by: <b>Alan Hill</b>, Associate Lecturer in Photography, RMIT University, Melbourne, Australia</p> <p>At Chobi Mela International Festival of Photography, Dhaka</p> <p><a href="https://chobimela.org/">https://chobimela.org/</a></p>

## Extra-Curricular Activities

2017	<p><b>Winner, Celebrating Life 2017 (Photography)</b></p> <p>Recognition of best young photographer in Bangladesh by “The Daily Star” (Major national English newspaper)</p>
2016	<p><b>1st Prize, Exhibition “Bridging the Divides”</b></p> <p>Bangladesh Peace and Harmony Week</p> <p>Organized by GEN Lab in association with UN</p>
2017	<p><b>Official Selection, 9th International Inter University Short Film Festival</b></p> <p>Organized by Dhaka University Film Society</p>
2017–2018	<p><b>President, BUET Photographic Society (BUETPS)</b></p> <p>BUETPS is a university club that develops photography skills among students through workshops, international exhibitions, artist talks, and discussions.</p>
2015–2018	<p><b>Visual Storyteller, Co-founder, Humans of BUET</b></p> <p>Humans of BUET is an online platform for sharing powerful and change-making stories by interviewing students, faculty, and alumni.</p>
2016–2020	<p><b>Contributor, The Daily Star</b></p> <p>Contributed to major English newspaper “The Daily Star” on supplements “The Star Weekend” and “Shout,” working on assignments occasionally.</p>
2020	<p><b>Digital Bootcamp on Good Governance Bangladesh</b></p> <p>Part of the Regional TechCamp on Good Governance, organized by Kathmandu Living Labs with support from the U.S. Embassy Kathmandu.</p>
2016	<p><b>Bangladesh Youth Leadership Summit</b></p> <p>Organized by Bangladesh Youth Leadership Center.</p>
2015	<p><b>Engineering Innovation Summit</b></p> <p>Organized by Engineering Student Association Bangladesh.</p>
2018	<p><b>Exhibition Design and Curation</b></p> <p>Beyond: Celebrating 20 years of BUETPS, Voyage of Visuals 2018: Divergence.</p>
2018	<p><b>Book Design</b></p> <p><i>a RELIC of Memories</i>, a self-published photobook by Hasan Mahmud Prottoy.</p>

## Skills

### Languages

Bengali (Native)  
English (Professional proficiency)

### Technical Skills

UX Design and Prototyping	Figma, Justinmind, Miro
Qualitative Data Analysis	Nvivo
Programming	C, C++, Processing, R
Hardware and Simulation	Arduino, PCB Design, Matlab
Productivity Tools	Microsoft Office Suite, Google Workspace
Photo and Video Editing	Adobe Lightroom, Adobe Premiere Pro

### Research

Qualitative	Ethnography, interview, observation, contextual inquiry, participatory design
Quantitative	Survey, statistical learning

## Memberships

2016–2018	<b>Student Member, Institute of Electrical and Electronics Engineers (IEEE)</b>
2022–Present	<b>Member, Association for Computing Machinery (ACM)</b>
2023–Present	<b>Member, ACM's Special Interest Group on Computer-Human Interaction (SIGCHI)</b>

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Last updated: May 2, 2025