

# Taslima Akter

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## EDUCATION

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- PhD in Computer Science** May 2022  
Indiana University, *Bloomington, IN*  
Committee: Apu Kapadia (chair), Kay Connelly, David J. Crandall, Norman Makoto Su, Bryan Semaan, Manohar Swaminathan  
Dissertation: Reducing Privacy Risks of Visually Impaired People with Camera Based Assistive Technologies
- M.Sc in Computer Science** December 2019  
Indiana University, *Bloomington, IN*
- B.Sc in Computer Science & Engineering** July 2014  
Bangladesh University of Engineering & Technology (BUET), *Dhaka, Bangladesh*

## RESEARCH EXPERIENCE

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- University of California, Irvine, Irvine, CA** June 2022 - present  
*Computing Innovation Fellow Postdoctoral Researcher, ARC lab*  
Department of Informatics  
Mentor: [Prof. Anne Marie Piper](#)
- Indiana University, Bloomington, IN** May 2022  
*Graduate Research Assistant, Privacy lab*  
Luddy School of Informatics, Computing, and Engineering  
Advisor: [Prof. Apu Kapadia](#)
- Microsoft Research, Bangalore, India** Fall 2018  
*Research Intern, Technology for Emerging Market*  
Mentor: Dr. Manohar Swaminathan
- Bangladesh University of Engineering & Technology, Dhaka, Bangladesh** Oct 2015  
*Research Assistant*  
Mentor: Dr. AKM Ashikur Rahman

## GRANTS & FELLOWSHIP

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- Computing Innovation Fellowship** June 2022 - May 2024  
*Computing Research Association (NSF-sponsored) (\$253,800)*
- The Trust & Safety scholarship** Fall 2021 - Spring 2022  
*Cognizant Technology Solutions (\$20,000)*

## PUBLICATIONS

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### Conference and Journal Papers (peer reviewed):

- **Akter, T.**, “Reducing Privacy Risks of Visually Impaired People with Camera Based Assistive Technologies”, Dissertation, Indiana University, 2022.
- Pias, S.B.H., Ahmad, I., **Akter, T.**, Kapadia, A. and Lee, A.J., “Decaying Photos for Enhanced Privacy: User Perceptions Towards Temporal Redactions and Trusted Platforms”, In Proceedings of the Computer Supported Cooperative Work and Social Computing (**CSCW 2022**). ([Paper](#))
- Ahmad, I., **Akter, T.**, Buher, Z., Farzan, R., Kapadia, A., and Lee, A.J., “Tangible Privacy for Smart Voice Assistants: Measuring Users’ Attitudes Towards User-Centric Sensor Designs”, In Proceedings of the Computer Supported Cooperative Work and Social Computing (**CSCW 2022**). ([Paper](#))
- **Akter, T.**, Ahmed, T., Kapadia, A., and Swaminathan, M., “Shared Privacy Concerns of the Visually Impaired and Sighted Bystanders with Camera Based Assistive Technologies”, In the Proceedings of Transactions on Accessible Computing (**TACCESS 2022**). ([Paper](#))
- **Akter, T.**, Ahmed, T., Kapadia, A., and Swaminathan, M., “Privacy Considerations of the Visually Impaired with Camera Based Assistive Technologies: Misrepresentation, Impropriety, and Fairness”, In the Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS 2020**). [acceptance rate 28%] ([Paper](#))
- **Akter, T.**, “Privacy Considerations of the Visually Impaired with Camera Based Assistive Tools”, In the Proceedings of Conference Companion Publication of Computer Supported Cooperative Work and Social Computing (**CSCW Companion 2020**). ([Paper](#))
- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “I am uncomfortable sharing what I can’t see”: Privacy Concerns of the Visually Impaired with Camera Based Assistive Applications”, In the Proceedings of 29th USENIX Security Symposium (**USENIX Security 2020**). [acceptance rate 16.1%] ([Paper](#), [Presentation](#))
- Dosono, B., Rashidi, Y., **Akter, T.**, Semaan, B., and Kapadia, A., “Challenges in Transitioning from Civil to Military Culture: Hyper-Selective Disclosure through ICTs”, Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (**CSCW 2018**), Vol. 1, No. 2, Article 41. [acceptance rate 27%] ([Paper](#))
- Zannat, H., **Akter, T.**, Tasnim, M., and Rahman, A., “The coverage problem in visual sensor networks: A target oriented approach.” Journal of Network and Computer Applications 2016, Vol 75: 1-15. ([Paper](#))
- Nurain, N., **Akter, T.**, Zannat, H., Akter, M., Islam, A., and Kabir, H., “General-Purpose Multi-Objective Vertical Hand-off Mechanism Exploiting Network Dynamics.” IEEE Conference on Wireless and Mobile Computing, Networking and Communications (**WiMob 2015**). ([Paper](#))

### Workshop Papers and Posters (peer reviewed ):

- **Akter, T.**, “Privacy Considerations of the Visually Impaired with Camera-based Assistive Applications”, Computer Supported Cooperative Work and Social Computing (**CSCW 2020**).
- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “Privacy Concerns of the Visually Impaired with Camera-based Assistive Applications”, ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS 2019**).

- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “AI vs Human Intelligence: Privacy Implications of Assistive Tools for Visually Impaired People”, Grace Hopper Celebrations (**GHC 2019**).
- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “Privacy Implications of Assistive Tools for Visually Impaired People”, Symposium On Usable Privacy and Security (**SOUPS 2019**).
- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “Privacy Implications of Human Intelligence Powered Assistive Tools for Visually Impaired People”, Workshop on Bridging the Gap Between AI and HCI, ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI 2019**).
- **Akter, T.**, Dosono, B., Ahmed, T., Kapadia, A., and Semaan, B., “ Privacy Concerns of People with Visual Impairments while Using Camera-based Assistive Technologies”, CRA-W Grad Cohort workshop 2019.
- Dosono, B. , Rashidi, Y., **Akter, T.**, Semaan, B., and Kapadia, A., “Challenges in Transitioning from Civil to Military Culture: Hyper-Selective Disclosure through ICTs”, Midwest Security Workshop (**MSW 2018**).
- **Akter, T.**, Ahmed, T., Connelly, K., Crandall, D., and Kapadia, A., “Privacy Risks of Using Camera Assisted Tools for People with Visual Impairments.” CVPR workshop on The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security (**CV-COPS 2017**).
- Zannat, H., Akter, M., **Akter, T.**, and Islam, A., “MOVH: General Purpose Multi-Objective Vertical Hand-off Mechanism with Higher Scalability and Higher Stability.” Mobile Computing and Human Computer Interaction (**MoHCI 2014**).

## TEACHING EXPERIENCE

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**Teaching Assistant, Computer Science**  
*Indiana University, Bloomington*

Spring 2021, Fall 2020, 2016

- Mentored over 30 students on Technical Foundations of Cybersecurity.
- Mentored over 40 students on Security for Networked Systems.
- Mentored over 30 students on Computer Networks.

**Lecturer, Computer Science & Engineering**  
*University of Asia Pacific, Dhaka, Bangladesh*

July 2016

- Taught over 200 students the topics on Operating Systems, and Programming in C.

**Lecturer, Software Engineering**  
*Daffodil International University, Dhaka, Bangladesh*

April 2015

- Taught over 150 students the topics on Computer Architecture, and Programming in C and Java.

## MENTORING STUDENT RESEARCHERS

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• **Sabid Bin Habib**, *Indiana University CS PhD Student*

June 2020 - January 2022

• **Imtiaz Ahmad**, *Former PhD student, Indiana University*

June 2020 - July 2021

- **Siva Likitha Valluru**, *Former Clemson University CS MS Student* May 2019 - December 2020

## AWARDS & HONORS

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- **Luddy Outstanding Graduate Research Assistant**, Indiana University 2020-2021
- **Doctoral Consortium**, CSCW travel grant 2020
- **PhD Dissertation** received Google Faculty Research Award 2020
- **Doctoral Consortium**, ASSETS travel grant 2019
- **Student Scholar**, CRA-W Grad Cohort Workshop 2019
- **Student Scholar**, Grace Hopper Conference 2017
- **Travel grant**, IEEE S&P 2017
- **Best Undergraduate Thesis Award**, Department of CSE, BUET 2014
- **Best Paper Award**, Mobile Computing and Human Computer Interaction (MoHCI) 2014
- **Distinguish Poster Award**, Department of CSE, BUET 2014
- **Academic Merit Scholarship** Department of CSE, BUET 2014
- **Dean's List Scholarship** Department of CSE, BUET 2012

## ACADEMIC SERVICES

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- **Peer Reviewer**, ACM Conference on Human Factors in Computing (CHI) 2023, 2022, 2021
- **Program Committee Member**, ASSETS 2022
- **Co-chair, Poster/Demo session**, ASSETS 2022
- **Student Co-chair, Lightning Talks/Demos**, SOUPS 2022
- **Member**, SOUPS Poster Program Committee 2022, 2021
- **PC Chair**, Workshop on Inclusive Privacy and Security (WIPS), SOUPS 2022, 2021
- **Student Volunteer**, ACM Conference on Human Factors in Computing (CHI) 2021
- **Organizer**, Workshop on Inclusive Privacy and Security (WIPS), SOUPS 2020
- **Vice President**, Bangladesh Student Association (BDSA), Indiana University 2020
- **Organizer**, Poster Committee, Indiana Celebration of Women in Computing (InWIC) 2017
- **Volunteer**, Women In Computing Knowledge Based Showcase, Indiana University 2017
- **Co-chair**, Design & publication Committee, National Collegiate Programming Contest, BD 2016
- **Member**, Programming Contest and Software & Hardware Club of University of Asia Pacific 2015