

# Tousif Ahmed

PHD CANDIDATE · INDIANA UNIVERSITY BLOOMINGTON

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## Research Interest

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Accessibility, privacy, security, human factors in security and privacy, social media privacy, applied machine learning, augmented, mixed, and virtual reality.

## Education

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**Ph.D. in Computer Science**, Indiana University Bloomington Aug, 2013- Dec, 2018 (Expected)

**Dissertation:** Towards the Design of Wearable Assistive Technologies to Address the Privacy and Security Concerns of People with Visual Impairments Advisor: Dr. Apu Kapadia

**M.S. in Computer Science**, Indiana University Bloomington Aug, 2013- May, 2017

CGPA: 3.9/4.00

**B.Sc in Computer Science**, Bangladesh University of Engineering and Technology Jun, 07- Apr, 2012

Undergrad Thesis: Antibandwidth problem for Itchy Caterpillar Rank: Top 25%

## Professional Experience

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**Research Assistant**, Privacy lab, Indiana University Bloomington Aug,13 - Present

- Assisted in research, mentored graduate and undergraduate students, published papers, and organized weekly meetings.

**Privacy Engineering Intern**, Magic Leap, Plantation, FL Summer, 2018

- Assisted in technical product privacy reviews and development of product privacy requirements.

**Summer Research Intern**, Microsoft Research, India Summer, 2017

- Investigated bystander's views, perception, and concerns in sharing information with assistive augmented reality devices (HoloLens).

**Visiting Researcher**, CyLab, Carnegie Mellon University Oct, 16 - Nov,16

- Explored Security Behavior Observatory to find evidence and reason for malware infections by analyzing end-user's daily computer usage and Internet browsing behavior.

**Summer Research Intern**, ICSI, University of California Berkeley Summer, 2015

- Examined users weak computer security practices by analyzing user's Internet browsing, software installation, software update, and antivirus usage behavior.

## Publications

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### Peer Reviewed Journal Publications

- J1. **Tousif Ahmed**, Apu Kapadia, Venkatesh Potluri, and Manohar Swaminathan. "Up to a Limit? Privacy Concerns of Bystanders and Their Willingness to Share Additional Information with Visually Impaired Users of Assistive Technologies". Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT). ACM, 2018, 89:1–89:27.
- J2. Qatrunnada Ismail, **Tousif Ahmed**, Kelly Caine, Apu Kapadia, and Michael Reiter. "To Permit or Not to Permit, That is the Usability Question: Crowdsourcing Mobile Apps' Privacy Permission Settings". In Proceedings on Privacy Enhancing Technologies (PoPETs). 2017, pp. 118–136.
- J3. **Tousif Ahmed**, Roberto Hoyle, Patrick Shaffer, Kay Connelly, David Crandall, and Apu Kapadia. "Understanding Physical Safety, Security, and Privacy Concerns of People with Visual Impairments". In IEEE Internet Computing. 2017, pp. 56–63.

### Peer Reviewed Conference Publications

- C1. Yasmeen Rashidi, **Tousif Ahmed**, Felicia Patel, Emily Fath, Christena Nippert-Eng Connelly, Apu Kapadia, and Norman Su. "“You don't want to be the next meme”:College Students' Workarounds to Manage Privacy in the Era of Pervasive Photography". Conditionally Accepted In Proceedings of the 14th Symposium on Usable Privacy and Security (SOUPS), 2018.
- C2. **Tousif Ahmed**, Patrick Shaffer, Kay Connelly, David Crandall, and Apu Kapadia. "Addressing Physical Safety, Security, and Privacy for People with Visual Impairments". In Proceedings of the 12th Symposium on Usable Privacy and Security (SOUPS), 2016, pp. 341–354.
- C3. Qatrunnada Ismail, **Tousif Ahmed**, Apu Kapadia, and Michael Reiter. "Crowdsourced Exploration of Security Configurations". In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), 2015, pp. 467–476.
- C4. **Tousif Ahmed**, Roberto Hoyle, Kay Connelly, David Crandall, and Apu Kapadia. "Privacy Concerns and Behaviors of People with Visual Impairments". In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), 2015, pp. 3523–3532.
- C5. M. Sazzadur Rahaman, **Tousif Ahmed**, Sad Al Abdullah, and M. Saidur Rahman. "Antibandwidth problem for itchy caterpillars". In International Conference on Informatics, Electronics, and Vision (ICIEV), 2014.

## Peer Reviewed Workshop Publications

- W1. Taslima Akter, **Tousif Ahmed**, Kay Connelly, David Crandall, and Apu Kapadia. *Privacy Risks of Using Camera Assisted Tools for People with Visual Impairments*. In Workshop on Computer Vision Challenges and Opportunities for Privacy & Security (CV-COPS), 2017.
- W2. Patrick Shaffer, **Tousif Ahmed**, Roberto Hoyle, Kay Connelly, David Crandall, and Apu Kapadia. *Surveillance Considerations Concerning Assistive Devices for People with Visual Impairments*. In CHI Workshop on Everyday Surveillance, 2016.
- W3. **Tousif Ahmed**, Roberto Hoyle, Patrick Shaffer, Kay Connelly, David Crandall, and Apu Kapadia. *Considering Privacy Implications of Assistive Devices for People with Visual Impairments*. In CHI Workshop on Interactive Systems in Healthcare (WISH), 2016.

## Talks & Presentations

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Ubicomp	<b>Conference Presentation</b> , Up to a Limit? Privacy Concerns of Bystanders and Their Willingness to Share Additional Information with Visually Impaired Users of Assistive Technologies	2018
INFO-I407	<b>Guest Lecture</b> , Towards the design of Accessible privacy	2018
INFO-I407	<b>Guest Lecture</b> , Understanding the Physical Safety, Security, and Privacy Concerns of People with Visual Impairments	2017
Microsoft Research, India	<b>Invited Talk</b> , Understanding the Physical Safety, Security, and Privacy Concerns of People with Visual Impairments	2017
SOUPS	<b>Conference Presentation</b> , Addressing the Physical Safety, Security, and Privacy Concerns of People with Visual Impairments	2016
WISH	<b>Workshop Presentation</b> , Considering Privacy Implications of Assistive Devices for People with Visual Impairments	2016
BLUES Lab, UC Berkeley	<b>Invited Talk</b> , Privacy Concerns and Behaviors of People with Visual Impairments	2015

## Teaching Experience

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**Associate Instructor**, Indiana University Bloomington

Spring, 2016 to Spring, 2018

- *Security for Networked Systems (I430)*: Led lab sessions on firewall (iptables), intrusion detection (snort), PKI, and other basic security fundamentals, held office hours, and graded quizzes.
- *Systems & Protocol Security & Information Assurance (I433)*: Led lab sessions on advanced access control, PKI, Hash-Functions, SQL injections, and Buffer Overflow, held office hours, and graded quizzes.
- *Advanced Topics on Privacy (B649)*: Reviewed research papers and weekly assignments.

## Honors & Awards

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San Francisco, CA	<b>SIGACCESS Student Scholar</b> , ACM's Celebration of 50 Years of the ACM Turing Award	2017
Boulder, CO	<b>Travel Grant</b> , To Attend SOUPS. 2016	2016
Dhaka, Bangladesh	<b>Champion</b> , Banglalink Idea Competition	2011
Dhaka, Bangladesh	<b>3rd Runner Up</b> , CFICC Case Competition	2011
Dhaka, Bangladesh	<b>University Merit Scholarship</b> , For two academic years at BUET	2009, 2011

## Academic Service

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<b>External Reviewer</b>	CCS 2018, CHI 2016/17/18/19, PETS 2018, DIS 2018, TEI 2018, CSCW 2018, SOUPS 2016/18.
<b>Conference Organizing</b>	CvCOPS 2018 (PC member), SOUPS 2018 (Poster jury)
<b>Mentoring</b>	Sanchari Das (PhD), Taslima Akter (PhD), Shirley Hu (BS), Aaron Porter (BS), Jeremiah Stevens (BS), Felicia Patel (BS), Emily Fath (BS).
<b>Security Reading Group</b>	Organize weekly seminars for discussing research papers and emerging research trends in security and privacy.
<b>Bangladeshi Student Association</b>	Organized and participated in international mother language day celebration.
<b>Student Volunteer</b>	IU Science Fest 2017, ACM Turing 50, BUET CSE Festival 2008 and 2011

## Skills

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<b>Programming Languages</b>	C++, Java, C, Python, Perl, R, JavaScript, PHP, TEX, HTML, Shell.
<b>Frameworks &amp; Libraries</b>	TensorFlow, Hadoop, OpenGL, ASP.net, Android, Clmg, OpenCV.
<b>Research Methods</b>	Surveys, Interviews, Field Study, ESM, Diary Study, Contextual Inquiry, Card Sorting, Paratyping, Prototyping
<b>Analysis Methods</b>	Qualitative and Quantitative analysis, Machine Learning, Statistical Analysis, Log data analysis.

## References

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**Apu Kapadia**  
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Associate Professor, IU

**David Crandall**  
djcran@indiana.edu  
Associate Professor, IU

**Kay Connelly**  
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