Apu Kapadia: Curriculum Vitae

Employment

Indiana University Jul 2021–Present

Professor

Department of Computer Science

School of Informatics, Computing, and Engineering

Indiana University Jul 2015–Jun 2021

Associate Professor

Department of Computer Science

School of Informatics, Computing, and Engineering

Indiana University Sep 2009–Jun 2015

Assistant Professor

Department of Computer Science and Informatics

School of Informatics and Computing

MIT Lincoln Laboratory Sep 2008–Aug 2009

Member of Technical Staff

Information Systems Technology Group

Dartmouth College Jul 2008–Aug 2008

Research Assistant Professor Department of Computer Science

Dartmouth College Oct 2005–Jun 2008

Post-Doctoral Research Fellow

Institute for Security Technology Studies (ISTS)

Education

Ph.D. in Computer Science October 2005

University of Illinois at Urbana-Champaign

Dissertation Topic: Models for Privacy in Ubiquitous Computing Environments

Advisor: Prof. Roy H. Campbell

M.S. in Computer Science May 2001

University of Illinois at Urbana-Champaign

Thesis: I-RBAC 2000: A Dynamic Role Translation Model For Secure Interoperability

Advisor: Prof. Roy H. Campbell

B.S. in Computer Science with Honors May 1998

University of Illinois at Urbana-Champaign

Awards and Recognition

Dr. James E. Mumford Excellence in Extraordinary Teaching Award, 2021

IU Faculty Academy on Excellence in Teaching (FACET), Indiana University

Runner-up for the 2020 CNIL-Inria Award for Privacy Protection, 2021

Rakibul Hasan, David Crandall, Mario Fritz, and Apu Kapadia, "Automatically Detecting Bystanders in Photos to Reduce Privacy Risks," In Proceedings of the IEEE Symposium on Security & Privacy (IEEE S&P/Oakland '20), Volume 1, pp. 318–335, San Francisco, USA, May 2020.

700 N Woodlawn Ave Bloomington, IN 47408, USA E-mail: kapadia@indiana.edu Work: 1-812-856-1465 Fax: 1-810-592-0221 URL: http://www.cs.indiana.edu/~kapadia

Honorable Mention Award, 2016

Mohammed Korayem, Robert Templeman, Dennis Chen, David Crandall, and Apu Kapadia, "Enhancing Lifelogging Privacy by Detecting Screens," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '16)

Honorable Mention for Best Paper Award, 2015

Zheng Dong, Apu Kapadia, Jim Blythe, L. Jean Camp, "Beyond the lock icon: real-time detection of phishing websites using public key certificates," In Proceedings of APWG Symposium on Electronic Crime Research (eCrime '15)

Distinguished Alumni Educator Award, 2015

Department of Computer Science, University of Illinois at Urbana-Champaign

Two Google Research Awards, 2014 and 2019
Privacy-Enhanced Life-Logging with Wearable Cameras
(with David Crandall)
Privacy Sensitive Augmented Reality for the Visually Impaired
(with David Crandall)

Talks as Distinguished Speaker

Distinguished Speaker, Great Lakes Security Day, RIT, September 2018.

CyLab Distinguished Seminar, Carnegie Melon University, October 2016.

Distinguished Lecture Series, Laboratory of Education and Research in Security Assured Information Systems (LERSAIS), University of Pittsburgh, 2015.

Distinguished Lecturer Series, Dept. of Computer Science, Kansas State University, 2014.

Workshop on Information Security and Privacy, Colorado Research Institute for Security and Privacy, 2013.

Distinguished Visitor (Scottish Informatics and Computer Science Alliance), Univ. of St Andrews, 2012.

Distinguished Visitor (Scottish Informatics and Computer Science Alliance), Univ. of Glasgow, 2012.

Trustees Teaching Award, Indiana University Bloomington, 2013

"These awards were established to recognize and enhance excellent teaching at Indiana University, especially at the undergraduate level."

Best of 2012: MIT Technology Review arXiv Blog

Robert Templeman, Zahid Rahman, David Crandall, and Apu Kapadia, "PlaceRaider: Virtual Theft in Physical Spaces with Smartphones," CoRR arXiv Technical Report arXiv:1209.5982, September 2012.

Runner-up for PET Award, 2009: Outstanding Research in Privacy Enhancing Technologies

Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "PEREA: Towards Practical TTP-Free Revocation in Anonymous Authentication," In Proceedings of The 15th ACM Conference on Computer and Communication Security (CCS), 2008

Runner-up for PET Award, 2009: Outstanding Research in Privacy Enhancing Technologies

Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "Blacklistable Anonymous Credentials: Blocking Misbehaving Users without TTPs," In Proceedings of the 14th ACM Conference on Computer and Communication Security (CCS), 2007

Honorable Mention Award (Runner-up for Best Paper)

Apu Kapadia, Tristan Henderson, Jeffrey Fielding, and David Kotz, "Virtual Walls: Protecting Digital Privacy in Pervasive Environments," In Proceedings of The Fifth International Conference on Pervasive Computing (PERVASIVE), 2007

Institute of Security Technology Studies (ISTS) Post-Doctoral Research Fellowship Funded by Department of Homeland Security (DHS)
Dartmouth College, October 2005–June 2008

Department of Energy (DoE) High-Performance Computer Science Fellowship Four Year Research Fellowship, September 2001–August 2005

Outstanding Department Service Award

Department of Computer Science, University of Illinois at Urbana-Champaign. May 2003

Invited Paper, The Journal of Supercomputing

Annette C. Feng, Apu C. Kapadia, Wu-chun Feng, and Geneva G. Belford, "Packet Spacing: An Enabling Mechanism for Delivering Multimedia Content in Computational Grids," 23(1):51–66 (2002)

Outstanding Class Project (CS 497 RHK)

First Annual Illinois Computer Systems Symposium (iCSS), 2002

Grants

Personal Share on Research Grants: \$3.3M (PI on NSF grants totaling \$4.5M to IU)

As Principal Investigator (PI)

NSF Secure and Trustworthy Cyberspace (SaTC) Frontiers, IU Award: \$1.5M (Personal Share: \$750K, Total Award: \$7.5M), PI

Collaborative Proposal: SaTC: Frontiers: Securing the Future of Computing for Marginalized and Vulnerable Populations

Co-PI: Kurt Hugenberg

Collaborative award with University of Florida (Lead PI: Kevin Butler; Co-PIs: Eakta Jain and Patrick Traynor) and University of Washington (PI: Franzi Roesner and Co-PI: Tadayoshi Kohno) CNS-2207019

October 2022–September 2027

NSF EAGER, IU Award: \$181K (Total Award: \$200K), PI

Collaborative Research: EAGER: Understanding Privacy Violations of Racial and Ethnic Minorities in Online Photo Sharing

Co-PIs: Kurt Hugenberg, Bennett Bertenthal, and Dorainne Green

Collaborative award with Mary Jean Amon, University of Central Florida

CNS-2124533

May 2021-April 2022

Google Research Award, \$45K (Personal Share: \$23K), PI Privacy Sensitive Augmented Reality for the Visually Impaired

Co-PI: David Crandall

March 2020-February 2021 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), IU Award: \$500K (Personal Share: \$250K, Total Award: \$500K), PI

SaTC: CORE: Small: Socio-Technical Strategies for Enhancing Privacy in Photo Sharing

Co-PI: Bennett Bertenthal

CNS-1814476

September 2018–August 2021 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), IU Award: \$160K (Personal Share: \$160K, Total Award: \$450K), PI

SaTC: CORE: Small: Collaborative: Tangible Privacy: User-Centric Sensor Designs for Assured Privacy

Collaborative award with Adam J. Lee and Rosta Farzan, University of Pittsburgh

CNS-1814513

October 2017–September 2021 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), IU Award: \$275K (Personal Share: \$275K, Total Award: \$1.07M), PI (Steven Myers, Former PI)

SaTC: CORE: Medium: Collaborative: Scalable Dynamic Access Control for Untrusted Cloud Environments Collaborative award with Adam J. Lee and John Lange, University of Pittsburgh CNS-1704139

September 2017-August 2021 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), IU Award: \$800K (Personal Share: \$400K, Total Award: \$1.2M), PI

TWC SBE: Medium: Collaborative: A Socio-Technical Approach to Privacy in a Camera-Rich World

Co-PI: David Crandall

Collaborative award with Denise Anthony, Dartmouth College

CNS-1408730

October 2014–September 2019 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), \$559K (projected, with REU Supplement), PI *CAREER: Sensible Privacy: Pragmatic Privacy Controls in an Era of Sensor-Enabled Computing* CNS-1252697

September 2013–August 2019 (estimated)

NSF Secure and Trustworthy Cyberspace (SaTC), IU Award: \$244K (Personal Share: \$122K, Total Award: \$366K), PI

TWC SBES: Medium: Collaborative: Crowdsourcing Security

Co-PI: Kelly Caine (now at Clemson University)

Collaborative award with Michael Reiter, University of North Carolina at Chapel Hill

CNS-1228364

September 2012-August 2014

NSF Secure and Trustworthy Cyberspace (SaTC), \$25K, PI

Workshop Organization Supplement: A Series of Workshops on Security in Emerging Areas at the 2012 ACM Conference on Computer and Communications Security

CNS-1245825

July 2012–June 2014

NSF Networking Technology and Systems (NeTS), \$150K (Total Award: \$300K), PI

NeTS: Small: Collaborative Research: ReDS: Reputation for Directory Services in P2P Systems

Collaborative award with Matthew Wright, University of Texas Arlington

CNS-1115693

September 2011-August 2014

I3P, IU Award: \$305K (Personal Share: \$105K, Total Award: \$1.2M), PI

Developing Frameworks to Address Issues in Privacy

Co-PIs: Kelly Caine, Minaxi Gupta, Arun Chauhan

Collaborative award with teams from: Carnegie Mellon University, Dartmouth College, University

of California, Berkeley, and Georgia Tech

I3P sub-award funded by Federal Prime DHS contract #2006-CS-001-000001

February 1, 2011–July 31, 2013

NSF Trustworthy Computing, IU Award: \$286K (Total Award: \$420K) (with REU Supplement), PI

TC: Small: Collaborative Research: Improved Privacy though Exposure Control

Collaborative proposal with Adam J. Lee, University of Pittsburgh

CNS-1016603

September 2010-August 2014

Microsoft Research (MSR) Equipment Grant, \$5K, PI

Center for Applied Cybersecurity Research (CACR) Internal Grant, \$50K (Personal Share: \$25K), PI

Sourcing the Experts: Distributed Social Networks for Privacy-Aware Knowledge Sharing

Co-PIs: Katy Börner, Johan Bollen, Filippo Menczer

CACR Research Grant funded by an award from the Lilly Endowment to the Pervasive Technology Institute and the Center for Applied Cybersecurity Research

July 2010-June 2011

As Co-PI

U.S. Department of Defense, via Purdue, IU Award: \$8M (Personal Share: \$520K, Co-PI)

"Embedded Systems Security/Artificial Intelligence (ESS/AI) Research and Workforce Development,"

Includes \$150K sub-award as PI for "Integrating Context into Object Detection" (Co-PI: Selma Sabanovic)

PI: David Crandall, with 11 Co-PIs

Jun 2021 - Sept 2024

NSF CyberCorps Scholarship for Service, Total Award: \$2.26M, Co-PI

The IU Cybersecurity Scholarship Program: Preparing the Next Generation of Cybersecurity Professionals DGE-1946537

PI: Scott Shackelford, Co-PI: Von Welch

August 2020-July 2025

ONR Navy ROTC Cybersecurity Training Program, Total Award: \$250K, Co-PI

IU Cyber ROTC Program

PI: Scott Shackelford, Co-PIs: David Crandall, Esfan Haghverdi, XiaoFeng Wang

August 2020–July 2021

NSF Secure and Trustworthy Cyberspace (SaTC), \$10K, Co-PI

Student Travel Grants for the Second International Workshop on The Bright and Dark Side of Computer Vision: Challenges and Opportunities for Privacy and Security

CNS-1834899

(PI: David Crandall)

June 2018-May 2019

NSF Secure and Trustworthy Cyberspace (SaTC), \$15K, Co-PI A Workshop on Computer Vision Challenges and Opportunities for Privacy and Security CNS-1744748 (PI: David Crandall) August 2017–July 2018

Google Research Award, \$46K (Personal Share: \$23K), Co-PI Privacy-Enhanced Life-Logging with Wearable Cameras PI: David Crandall March 2014–Feb 2015 (estimated)

Indiana University Faculty Research Support Program, \$40K (Personal Share: \$15K), Co-PI (PI Yong-Yeol Ahn and Co-PI Fabio Rojas)

Do Revelations about Internet Security have a Chilling Effect?

Office of the Vice Provost of Research at Indiana University Bloomington
September 2014–February 2015

Indiana University Faculty Research Support Program, \$50K (Personal Share: \$25K), Co-PI with David Crandall

FRSP Type II: Vision for Privacy: Privacy-Aware Crowd Sensing Using Opportunistic Imagery Office of the Vice Provost of Research at Indiana University-Bloomington January 2013–December 2013

Patents

US 10,592,687, Issued 3/17/2020. *Method and system of enforcing privacy policies for mobile sensory devices*, Apu Kapadia, Robert E. Templeman, David Crandall, and Mohammed Korayem.

US 9,998,684, Issued 6/12/2018. *Method and apparatus for virtual 3D model generation and navigation using opportunistically captured images*, Apu Kapadia, Md Zahidur Rahman, David Crandall, and Robert E. Templeman.

US 9,660,995, Issued 5/23/2017. *Methods, systems, and computer readable media for combating device theft with user notarization*, Michael Kendrick Reiter, Apu Chandrasen Kapadia, and Alana Libonati.

Publications

Op-Eds, Columns, Opinions, Correspondence

"Addressing the harms of AI-generated inauthentic content," Filippo Menczer, David Crandall, Yong-Yeol Ahn, and Apu Kapadia, Correspondence in Nature Machine Intelligence, vol 5, no. 7, pp 679–680 (2023).

"Can Facebook's smart glasses be smart about security and privacy?" Apu Kapadia The Conversation, Oct 2021.

"Could Apple's child safety feature backfire? New research shows warnings can increase risky sharing"

Bennett Bertenthal, Apu Kapadia, and Kurt Hugenberg The Conversation, Sep 2021.

Peer-Reviewed Journal and Magazine Articles

- PACM/CSCW '23 Aaron Necaise, Tangila Islam Tanni, Aneka Williams, Yan Solihin, Apu Kapadia, and Mary Jean Amon, "User Preferences for Interdependent Privacy Preservation Strategies in Social Media," In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '23/CSCW '23), Volume 7, Issue CSCW2, Article 271, 30 pages (October 2023).
- ACM TOCHI '23 Mary Jean Amon, Aaron Necaise, Nika Kartvelishvili, Aneka Williams, Yan Solihin, and Apu Kapadia, "Modeling User Characteristics Associated with Interdependent Privacy Perceptions on Social Media," ACM Transactions on Computer-Human Interaction (ACM TOCHI), Vol. 30, Issue 3, Article 40, 32 pages (June 2023).
- PACM/CSCW '22 Sruti Bhagavatula, Lujo Bauer, and Apu Kapadia, "Adulthood is trying each of the same six passwords that you use for everything": The Scarcity and Ambiguity of Security Advice on Social Media, In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '22/CSCW '22), Vol. 6, Issue CSCW2, Article 254, 27 pages (November 2022).
- PACM/CSCW '22 Sabid Bin Habib Pias, Imtiaz Ahmad, Taslima Akter, Apu Kapadia, and Adam J. Lee, "Decaying Photos for Enhanced Privacy: User Perceptions Towards Temporal Redactions and 'Trusted' Platforms," In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '22/CSCW '22), Vol. 6, Issue CSCW2, Article 437, 30 pages (November 2022).
- PACM/CSCW '22 Imtiaz Ahmad, Taslima Akter, Zachary Buher, Rosta Farzan, Apu Kapadia, and Adam J. Lee, "Tangible Privacy for Smart Voice Assistants: Bystanders' Perceptions of Physical Device Controls," In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '22/CSCW '22), Vol. 6, Issue CSCW2, Article 364, 31 pages (November 2022).
- PACM/CSCW '22 Mary Jean Amon, Nika Kartvelishvili, Bennett I. Bertenthal, Kurt Hugenberg, and Apu Kapadia. "Sharenting and children's privacy: Parenting style, practices, and perspectives on sharing young children's photos on social media." In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '22/CSCW '22), Vol. 6, Issue CSCW1, Article 116, 30 pages (April 2022).
 - TACCESS '22 Taslima Akter, Tousif Ahmed, Apu Kapadia, and Manohar Swaminathan, "Shared Privacy Concerns of the Visually Impaired and Sighted Bystanders with Camera Based Assistive Technologies," ACM Transactions on Accessible Computing (TACCESS '22), Vol. 15, Issue 2, Article 11, 33 pages (May 2022).
- PACM/CSCW '21 Sanchari Das, Tousif Ahmed, Apu Kapadia, and Sameer Patil, "Does This Photo Make Me Look Good?: How Social Media Feedback on Photos Impacts Posters, Outsiders, and Friends," Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '21/CSCW '21), Vol. 5, Issue CSCW1, Article 46, 32 pages (April 2021).
 - PoPETs '21 Yuchen Liu, Ziyu Xiang, Eun Ji Seong, Apu Kapadia, and Donald S. Williamson, "Defending Against Microphone-Based Attacks with Personalized Noise," Proceedings on Privacy Enhancing Technologies (PoPETs '21/PETS '21), Vol. 2021, No. 2, pp. 130–150 (April 2021).

- PACM/CSCW '20 Imtiaz Ahmad, Rosta Farzan, Apu Kapadia, and Adam J. Lee, "Tangible Privacy: Towards User-Centric Sensor Designs for Bystander Privacy," In Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '20/CSCW '20), Vol. 4, Issue CSCW2, Article 116, 28 pages (October 2020).
- ACM TOCHI '20 Roberto Hoyle, Luke Stark, Qatrunnada Ismail, David Crandall, Apu Kapadia, and Denise Anthony, "Privacy Norms and Preferences for Photos Posted Online," ACM Transactions on Computer-Human Interaction (ACM TOCHI), Vol. 27, No. 4, 27 pages, (August 2020).
 - Crit Q'20 Adam J. Lee, Rosta Farzan, Apu Kapadia, and Imtiaz Ahmad, "Making Sense of Risk in an Increasingly Cyber-physical World," Critical Quarterly, Vol. 62, No. 1, pp. 40–48, 2020.
- PACM/CSCW '20 Yasmeen Rashidi, Apu Kapadia, Christena Nippert-Eng, and Norman Makoto Su, ""It's easier than causing confrontation": Sanctioning Strategies to Maintain Social Norms of Content Sharing and Privacy on Social Media," Proceedings of the ACM Journal: Human-Computer Interaction: Computer Supported Cooperative Work and Social Computing (PACM '20/CSCW '20), Vol. 4, Issue CSCW1, Article 23, 25 pages (May 2020).
 - iCS '19 Anne Groggel, Shirin Nilizadeh, Yong-Yeol Ahn, Apu Kapadia, and Fabio Rojas, "Race and the Beauty Premium: Evidence from a Study on How Mechanical Turk Workers Evaluate Twitter Accounts," Information, Communication & Society (iCS), Vol. 22, No. 5, pp. 709–716, (March 2019).
- IMWUT/UbiComp '18 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 '18/UbiComp '18), Vol. 2, No. 3, Article 89, 27 pages (September 2018).
 - PACM '17/CSCW '18 Bryan Dosono, Yasmeen Rashidi, Taslima Akter, Bryan Semaan, and Apu Kapadia, "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 (PACM '17/CSCW '18), Vol. 1, Issue CSCW, Article 41, 23 pages (November 2017).
 - **PoPETs '17** 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 '17), Vol. 2017, No. 4, pp. 39–57 (October 2017).
 - IC '17 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," IEEE Internet Computing, Special Issue on Usable Security (May/June 2017)
 - Sensors '15 Minho Shin, Cory Cornelius, Apu Kapadia, Nikos Triandopoulos, and David Kotz, "Location Privacy for Mobile Crowd Sensing through Population Mapping," Sensors, Vol 15, Issue 7, pp. 15285–15310 (June 2015).
 - IEEE TPDS '14 Ruj Akavipat, Mahdi N. Al-Ameen, Apu Kapadia, Zahid Rahman, Roman Schlegel, and Matthew Wright, "ReDS: A Framework for Reputation-Enhanced DHTs," IEEE Transactions on Parallel and Distributed Systems (IEEE TPDS), Volume 25, Issue 2, pp. 321–331 (February 2014).

- ACM TISSEC '11 Man Ho Au, Patrick P. Tsang, and Apu Kapadia, "PEREA: Practical TTP-Free Revocation of Repeatedly Misbehaving Anonymous Users," ACM Transactions on Information and System Security (ACM TISSEC), Volume 14, Issue 4, Article 29, 34 pages (December 2011).
 - IEEE TDSC '11 Patrick P. Tsang, Apu Kapadia, Cory Cornelius, and Sean W. Smith, "Nymble: Blocking Misbehaving Users in Anonymizing Networks," IEEE Transactions on Dependable and Secure Computing (IEEE TDSC), Volume 8, Number 2, pp. 256–269 (March–April 2011).
 - PMC '11 Minho Shin, Cory Cornelius, Dan Peebles, Apu Kapadia, David Kotz, and Nikos Triandopoulos, "AnonySense: A System for Anonymous Opportunistic Sensing," Journal of Pervasive and Mobile Computing (PMC), Volume 7, Issue 1, pp. 16–30 (February 2011).
- ACM TISSEC '10 Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "BLAC: Revoking Repeatedly Misbehaving Anonymous Users Without Relying on TTPs," ACM Transactions on Information and System Security (ACM TISSEC), Volume 13, Issue 4, Article 39, 33 pages (December 2010).
 - **JSC '02** Annette C. Feng, Apu C. Kapadia, Wu-chun Feng, and Geneva G. Belford, "Packet Spacing: An Enabling Mechanism for Delivering Multimedia Content in Computational Grids," The Journal of Supercomputing (JSC), 23(1):51–66 (2002), (*Invited submission*).

Selected Peer-Reviewed Conference Papers

- CHI '23 Renita Washburn, Tangila Islam Tanni, Yan Solihin, Apu Kapadia, Mary Jean Amon, "Bottom-up Psychosocial Interventions for Interdependent Privacy: Effectiveness Based on Individual and Content Differences," In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '23), Article 188, 20 pages, Hamburg, Germany, April 2023.
- Interspeech '22 Yuchen Liu, Apu Kapadia, and Donald S. Williamson, "Preventing sensitive-word recognition using self-supervised learning to preserve user-privacy for automatic speech recognition," In Proceedings of the Annual Conference of the International Speech Communication Association (Interspeech '22), pp. 4207–4211, 2022. September 18–22, 2022.
 - ICWSM '22 Rakibul Hasan, Cristobal Cheyre, Yong-Yeol Ahn, Roberto Hoyle, and Apu Kapadia, "The Impact of Viral Posts on Visibility and Behavior of Professionals: A Longitudinal Study of Scientists on Twitter," In Proceedings of the International AAAI Conference on Web and Social Media (ICWSM 2022), 16(1), pp. 323–334, May 2022.
- EuroUSEC '21 Sruti Bhagavatula, Lujo Bauer, and Apu Kapadia, "What breach? Measuring online awareness of security incidents by studying real-world browsing behavior," Proceedings of the 2021 European Symposium on Usable Security (EuroUSEC '21), pp. 180–199, October 2021.
- USENIX Sec '21 Cheng Guo, Brianne Campbell, Apu Kapadia, Michael K. Reiter, and Kelly Caine, "Effect of Mood, Location, Trust, and Presence of Others on Video-Based Social Authentication," In Proceedings of the 30th USENIX Security Symposium (USENIX Security '21), pp. 1–18, August 11–13, 2021.
 - CHI '21 Rakibul Hasan, Bennett I. Bertenthal, Kurt Hugenberg, and Apu Kapadia, "Your Photo is so Funny that I don't Mind Violating Your Privacy by Sharing it: Effects of Individual Humor Styles on Online Photo-sharing Behaviors," In the Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '21), Article 556, pp. 1–14, May 2021.

- ASSETS '20 Taslima Akter, Tousif Ahmed, Apu Kapadia, and Manohar Swaminathan, "Privacy Considerations of the Visually Impaired with Camera Based Assistive Technologies: Misrepresentation, Impropriety, and Fairness," In Proceedings of The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20), Article 32, 14 pages, Athens, Greece, October 2020.
- ConPro '20 Sruti Bhagavatula, Lujo Bauer, and Apu Kapadia, "(How) Do people change their passwords after a breach?," In Proceedings of The Workshop on Technology and Consumer Protection (ConPro '20), San Francisco, USA, May 2020.
- USENIX Sec '20 Taslima Akter, Bryan Dosono, Tousif Ahmed, Apu Kapadia, and Bryan Semaan, ""I am uncomfortable sharing what I can't see": Privacy Concerns of the Visually Impaired with Camera Based Assistive Applications," In Proceedings of The 29th USENIX Security Symposium (USENIX Security '20), Boston, USA, August 2020.
 - IEEE S&P '20 Rakibul Hasan, David Crandall, Mario Fritz, and Apu Kapadia, "Automatically Detecting Bystanders in Photos to Reduce Privacy Risks," In Proceedings of the IEEE Symposium on Security & Privacy (IEEE S&P/Oakland '20), Volume 1, pp. 318–335, San Francisco, USA, May 2020. Runner-up for the 2020 CNIL-Inria Award for Privacy Protection
 - IEEE S&P '20 Mary Jean Amon, Rakibul Hasan, Kurt Hugenberg, Bennett I. Bertenthal, and Apu Kapadia, "Influencing Photo Sharing Decisions on Social Media: A Case of Paradoxical Findings," In the Proceedings of the IEEE Symposium on Security & Privacy (IEEE S&P/Oakland '20), Volume 1, pp. 1350–1366, San Francisco, USA, May 2020.
 - SIID '19 Tousif Ahmed, Rakibul Hasan, Kay Connelly, David Crandall, and Apu Kapadia, "Conveying Situational Information to People with Visual Impairments," In Proceedings of CHI 2019 Workshop on Addressing the Challenges of Situationally-Induced Impairments and Disabilities in Mobile Interaction (SIID '19), May 4–9, 2019, Glasgow, UK.
 - CHI '19 Rakibul Hasan, Yifang Li, Eman Hassan, Kelly Caine, David J. Crandall, Roberto Hoyle, and Apu Kapadia, "Can Privacy Be Satisfying? On Improving Viewer Satisfaction for Privacy-Enhanced Photos Using Aesthetic Transforms," In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '19), Paper 367, 13 pages, Glasgow, UK, May 4–9, 2019.
 - SOUPS '18 Yasmeen Rashidi, Felicia Patel, Emily Fath, Apu Kapadia, Christena Nippert-Eng, and Norman Makoto Su, "You don't want to be the next meme": College Students' Workarounds to Manage Privacy in the Era of Pervasive Photography, In Proceedings of the USENIX Symposium on Usable Privacy and Security (SOUPS '18), pp. 143–157, Baltimore, Maryland, August 12–14, 2018.
 - CHI '18 Rakibul Hasan, Eman Hassan, Yifang Li, Kelly Caine, David J. Crandall, Roberto Hoyle, and Apu Kapadia, "Viewer Experience of Obscuring Scene Elements in Photos to Enhance Privacy," In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '18), pp. 47:1–47:13, Montréal, Canada, April 21–26, 2018.
 - CHI '17 Roberto Hoyle, Srijita Das, Apu Kapadia, Adam Lee, and Kami Vaniea, "Was my message read?: Privacy and Signaling on Facebook Messenger," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '17), pp. 3838–3842, Denver, CO, USA, May 6–11, 2017.

- CSCW '17 Roberto Hoyle, Srijita Das, Apu Kapadia, Adam Lee, and Kami Vaniea, "Viewing the Viewers: Publishers' Desires and Viewers' Privacy Concerns in Social Networks," In Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17), pp. 555–566, Portland, OR, USA, February 25–March 1, 2017.
- SOUPS '16 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 Twelfth Symposium on Usable Privacy and Security (SOUPS '16), pp. 341–354, Denver, CO, USA, June 22–24, 2016.

 Invited (peer reviewed article) to IEEE Internet Computing Special Issue on Usable Security
- ICWSM '16 Shirin Nilizadeh, Anne Groggel, Peter Lista, Srijita Das, Yong-Yeol Ahn, Apu Kapadia, and Fabio Rojas, "Twitter's Glass Ceiling: The Effect of Perceived Gender on Online Visibility," In Proceedings of The International AAAI Conference on Web and Social Media (ICWSM '16), pp. 289–298, Cologne, Germany, May 17–20, 2016.
 - CHI '16 Mohammed Korayem, Robert Templeman, Dennis Chen, David Crandall, and Apu Kapadia, "Enhancing Lifelogging Privacy by Detecting Screens," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '16), pp. 4309–4314, San Jose, CA, USA, May 7–12, 2016.

 Honorable Mention Award (Top 4% of Submissions)
- eCrime '15 Zheng Dong, Apu Kapadia, Jim Blythe, L. Jean Camp, "Beyond the lock icon: real-time detection of phishing websites using public key certificates," In Proceedings of APWG Symposium on Electronic Crime Research (eCrime '15) pp. 1–12, May 26–29, 2015.

 Honorable Mention for Best Paper Award
 - CHI '15a 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 '15), pp. 3523–3532, Seoul, South Korea, April 18–23, 2015.
 - CHI '15b Qatrunnada Ismail, Tousif Ahmed, Apu Kapadia, and Michael K. Reiter, "Crowdsourced Exploration of Security Configurations," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '15), pp. 467–476, Seoul, South Korea, April 18–23, 2015.
 - CHI '15c Roberto Hoyle, Robert Templeman, Denise Anthony, David Crandall, and Apu Kapadia, "Sensitive Lifelogs: A Privacy Analysis of Photos from Wearable Cameras," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '15), pp. 1645–1648, Seoul, South Korea, April 18–23, 2015.
 - CHI '15d Sameer Patil, Roberto Hoyle, Roman Schlegel, Apu Kapadia, and Adam Lee, "Interrupt Now or Inform Later?: Comparing Immediate and Delayed Privacy Feedback," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '15), pp. 1415–1418, Seoul, South Korea, April 18–23, 2015.
 - CCS '14 Shirin Nilizadeh, Apu Kapadia, and Yong-Yeol Ahn, "Community-Enhanced De-anonymization of Online Social Networks," In Proceedings of the 21st ACM Conference on Computer and Communications Security (CCS '14), pp. 537–548, Scottsdale, Arizona, USA, November 3–7, 2014.

- UbiComp '14 Roberto Hoyle, Robert Templeman, Steven Armes, Denise Anthony, David Crandall, and Apu Kapadia, "Privacy Behaviors of Lifeloggers using Wearable Cameras," In Proceedings of The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '14), pp. 571–582, Seattle, WA, USA, September 13–17, 2014.
 - **WiSec '14** Luke Hutton, Tristan Henderson, and Apu Kapadia, ""Here I am, now pay me!": Privacy Concerns in Incentivised Location-Sharing Systems," In Proceedings of the 7th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec '14), pp. 81–86, Oxford, UK, July 23–25, 2014.
 - CHI '14 Sameer Patil, Roman Schlegel, Apu Kapadia, and Adam J. Lee, "Reflection or Action?: How Feedback and Control Affect Location Sharing Decisions," In Proceedings of The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '14), pp. 101–110, Toronto, Canada, Apr 26–May 1, 2014.
 - NDSS '14 Robert Templeman, Mohammed Korayem, David Crandall, and Apu Kapadia, "PlaceAvoider: Steering First-Person Cameras away from Sensitive Spaces," In Proceedings of The 21st Annual Network & Distributed System Security Symposium (NDSS '14), San Diego, CA, February 23–26, 2014.
 - NDSS '13 Robert Templeman, Zahid Rahman, David Crandall, and Apu Kapadia, "PlaceRaider: Virtual Theft in Physical Spaces with Smartphones," In Proceedings of The 20th Annual Network & Distributed System Security Symposium (NDSS '13), San Diego, CA, February 24–27, 2013. MIT Technology Review arXiv Blog's "Best of 2012"
- CoNEXT '12 Shirin Nilizadeh, Sonia Jahid, Prateek Mittal, Nikita Borisov, and Apu Kapadia, "Cachet: A Decentralized Architecture for Privacy Preserving Social Networking with Caching," In Proceedings of The 8th ACM International Conference on Emerging Networking Experiments and Technologies (CoNEXT '12), pp. 337–348, Nice, France, December 10–13, 2012.
 - CCS '12 Man Ho Au and Apu Kapadia, "PERM: Practical Reputation-Based Blacklisting without TTPs," In Proceedings of The 19th ACM Conference on Computer and Communication Security (CCS '12), pp. 929–940, Raleigh, NC, October 16–18, 2012.
- **SOUPS '12** Sameer Patil, Greg Norcie, Apu Kapadia, and Adam J. Lee, "Reasons, Rewards, Regrets: Privacy Considerations in Location Sharing as an Interactive Practice," In Proceedings of The Eighth Symposium on Usable Privacy and Security (SOUPS '12), Article 5, 15 pages, Washington DC, July 11–13, 2012.
- SACMAT '12 Yann Le Gall, Adam J. Lee, and Apu Kapadia, "PlexC: A Policy Language for Exposure Control," In Proceedings of The 17th ACM Symposium on Access Control Models and Technologies (SACMAT '12), pp. 219–228, Newark, NJ, USA, June 20–22, 2012.
 - NDSS '12 Man Ho Au, Apu Kapadia, and Willy Susilo, "BLACR: TTP-Free Blacklistable Anonymous Credentials with Reputation," In Proceedings of the 19th Annual Network & Distributed System Security Symposium (NDSS '12), San Diego, CA, February 5–8, 2012.
 - SOUPS '11 Roman Schlegel, Apu Kapadia, and Adam J. Lee, "Eyeing your Exposure: Quantifying and Controlling Information Sharing for Improved Privacy," In Proceedings of the 2011 Symposium on Usable Privacy and Security (SOUPS '11), Article 14, 14 pages, Pittsburgh, PA, July 20–22, 2011.

- NDSS '11 Roman Schlegel, Kehuan Zhang, Xiaoyong Zhou, Mehool Intwala, Apu Kapadia, and XiaoFeng Wang, "Soundcomber: A Stealthy and Context-Aware Sound Trojan for Smartphones," In Proceedings of the 18th Annual Network and Distributed System Security Symposium (NDSS '11), pp. 17–33, San Diego, CA, February 6–9, 2011.
 - CCS '08 Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "PEREA: Towards Practical TTP-Free Revocation in Anonymous Authentication," In Proceedings of The 15th ACM Conference on Computer and Communication Security (CCS '08), pp. 333–344, Alexandria, VA, October 27–31, 2008.

Runner-up for PET Award, 2009: Outstanding Research in Privacy Enhancing Technologies

- MOBISYS '08 Cory Cornelius, Apu Kapadia, David Kotz, Dan Peebles, Minho Shin and Nikos Triandopoulos, "AnonySense: Privacy-Aware People-Centric Sensing," In Proceedings of The Sixth ACM/USENIX International Conference on Mobile Systems, Applications, and Services (MOBISYS '08), pp. 211–224, Breckenridge, Colorado, June 17–20, 2008.
- PERVASIVE '08 Apu Kapadia, Nikos Triandopoulos, Cory Cornelius, Daniel Peebles, and David Kotz, "Anony-Sense: Opportunistic and Privacy-Preserving Context Collection," In Proceedings of The Sixth International Conference on Pervasive Computing (PERVASIVE '08), pp. 280–297, Sydney, Australia, May 19–22, 2008. Springer-Verlag, LNCS 5013.
 - NDSS '08 Apu Kapadia and Nikos Triandopoulos, "Halo: High-Assurance Locate for Distributed Hash Tables," In Proceedings of the 15th Annual Network and Distributed System Security Symposium (NDSS '08), pp. 61–79, San Diego, CA, February 10–13, 2008.
 - CCS '07 Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "Blacklistable Anonymous Credentials: Blocking Misbehaving Users without TTPs," In Proceedings of the 14th ACM Conference on Computer and Communication Security (CCS '07), pp. 72–81, Alexandria, VA, Oct 29–Nov 2, 2007.

Runner-up for PET Award, 2009: Outstanding Research in Privacy Enhancing Technologies

- **PET '07** Peter C. Johnson, Apu Kapadia, Patrick P. Tsang, and Sean W. Smith, "Nymble: Anonymous IP-Address Blocking," In Proceedings of The Seventh International Symposium on Privacy Enhancing Technologies (PET '07), pp. 113–133, Ottawa, Canada, June 20–22, 2007. Springer-Verlag, LNCS 4776.
- PERVASIVE '07 Apu Kapadia, Tristan Henderson, Jeffrey Fielding, and David Kotz, "Virtual Walls: Protecting Digital Privacy in Pervasive Environments," In Proceedings of The Fifth International Conference on Pervasive Computing (PERVASIVE '07), pp. 162–179, Toronto, Canada, May 13–16, 2007. Springer-Verlag, LNCS 4480.

 Honorable Mention Award (Runner-up for Best Paper)
 - NDSS '07 Apu Kapadia, Patrick P. Tsang and Sean W. Smith, "Attribute-Based Publishing with Hidden Credentials and Hidden Policies," In Proceedings of The Fourteenth Annual Network and Distributed System Security Symposium (NDSS '07), pp. 179–192, San Diego, CA, February 28–March 2, 2007.
 - CCS '04 Apu Kapadia, Geetanjali Sampemane, and Roy H. Campbell, "KNOW Why Your Access Was Denied: Regulating Feedback for Usable Security," In Proceedings of Eleventh ACM Conference on Computer and Communications Security (CCS '04), pp. 52–61, Washington DC, October 25-29, 2004.

- ICDCS '02 Jalal Al-Muhtadi, Roy H. Campbell, Apu Kapadia, Dennis Mickunas, and Seung Yi, "Routing Through the Mist: Privacy Preserving Communication in Ubiquitous Computing Environments," In Proceedings of The 22nd IEEE International Conference on Distributed Computing Systems (ICDCS '02), pp. 74–83, Vienna, Austria, July 2-5, 2002.
- ICDCS '01 Apu Kapadia, Annette Feng, and Wu-chun Feng, "The Effects of Inter-Packet Spacing on the Delivery of Multimedia Content," In Proceedings of The 21st IEEE International Conference on Distributed Computing Systems (ICDCS '01), pp. 665–672, Phoenix, Arizona, April 16-19, 2001.

Peer-Reviewed Workshop and other Conference Papers

- **ConPro '20** Sruti Bhagavatula, Lujo Bauer, and Apu Kapadia, "(How) Do People Change Their Passwords After a Breach?," Workshop on Technology and Consumer Protection (ConPro '20).
- UPSIDE '14 Robert Templeman, Roberto Hoyle, Apu Kapadia, and David Crandall, "Reactive Security: Responding to Visual Stimuli from Wearable Cameras," In Proceedings of the Workshop on Usable Privacy & Security for wearable and domestic ubIquitous DEvices (UPSIDE '14), pp. 1297–1306, Seattle, WA, USA, Sep 14, 2014.
 - ISTAS '13 Vaibhav Garg, Sameer Patil, Apu Kapadia, and L. Jean Camp, Peer-produced Privacy Protection, In Proceedings of the IEEE International Symposium on Technology and Society (ISTAS '13), pp. 147–154, Toronto, Canada, June 27–29, 2013.
- NSPW '12 Zheng Dong, Vaibhav Garg, Jean Camp, and Apu Kapadia, "Pools, Clubs and Security: Designing for a Party Not a Person," In Proceedings of The New Security Paradigms Workshop (NSPW '12), pp. 77–86, Bertinoro, Italy, September 19–21, 2012.
- **HotSec '12** Robert Templeman and Apu Kapadia, "GANGRENE: Exploring the Mortality of Flash Memory," In Proceedings of The 7th USENIX Workshop on Hot Topics in Security (HotSec '12), Bellevue, WA, August 7, 2012.
- SESOC '12 Sonia Jahid, Shirin Nilizadeh, Prateek Mittal, Nikita Borisov, and Apu Kapadia, "DECENT: A Decentralized Architecture for Enforcing Privacy in Online Social Networks," In Proceedings of the 4th IEEE International Workshop on Security and Social Networking (SESOC '12), pp. 326–332, Lugano, Switzerland, March 19, 2012.
- **USEC '12** Sameer Patil, Yann Le Gall, Adam J. Lee, and Apu Kapadia, "My Privacy Policy: Exploring End-user Specification of Free-form Location Access Rules," In Proceedings of the Workshop on Usable Security (USEC '12), pp. 86–97, Bonaire, March 2, 2012. Springer-Verlag LNCS 7398.
- WPES '11a Huina Mao, Xin Shuai, and Apu Kapadia, "Loose Tweets: An Analysis of Privacy Leaks on Twitter," In Proceedings of the 2011 ACM Workshop on Privacy in the Electronic Society (WPES '11), pp. 1–11, Chicago, Illinois, October 17, 2011.
- WPES '11b Shirin Nilizadeh, Naveed Alam, Nathaniel Husted, and Apu Kapadia, "Pythia: A Privacy Aware, Peer-to-Peer Network for Social Search," In Proceedings of the 2011 ACM Workshop on Privacy in the Electronic Society (WPES '11), pp. 43–48, Chicago, Illinois, October 17, 2011.
 - CTS '11 Apu Kapadia, Steven Myers, XiaoFeng Wang and Geoffrey Fox, "Toward securing sensor clouds," In Proceedings of The 2011 International Symposium on Collaborative Technologies and Systems (CTS '11), pp. 280–289, Philadelphia, PA, May 23–27, 2011.

- IHI '10 Emily K. Adams, Mehool Intwala, and Apu Kapadia, "MeD-Lights: A Usable Metaphor for Patient Controlled Access to Electronic Health Records," In Proceedings of the 1st ACM International Health Informatics Symposium (IHI '10), pp. 800–808, Arlington, VA, November 11–12, 2010.
- WITS '10 Ruj Akavipat, Apurv Dhadphale, Apu Kapadia, and Matthew Wright, "ReDS: Reputation for Directory Services in P2P Systems," In Proceedings of the ACM CCS Workshop on Insider Threats (WITS '10), pp. 47–54, Chicago, IL, October 8, 2010.
- ISARCS '10 Michael N. Gagnon, John Truelove, Apu Kapadia, Joshua Haines, and Orton Huang, "Towards Net-centric Cyber Survivability for Ballistic Missile Defense," 1st International Symposium on Architecting Critical Systems Federated (ISARCS '10), pp. 125–141, Prague, Czech Republic, June 23–25, 2010. Springer-Verlag, LNCS 6150.
 - CTS '10 Apu Kapadia, Steven Myers, XiaoFeng Wang and Geoffrey Fox, "Secure Cloud Computing with Brokered Trusted Sensor Networks," In Proceedings of The 2010 International Symposium on Collaborative Technologies and Systems (CTS '10), pp. 581–592, Chicago, IL, May 17–21, 2010.
 - WPES '08 Katelin Bailey, Apu Kapadia, Linden Vongsathorn, and Sean W. Smith, "TwoKind Authentication: Protecting Private Information in Untrustworthy Environments," In Proceedings of The Seventh ACM Workshop on Privacy in the Electronic Society (WPES '08), pp. 39–43, Alexandria, VA, October 27, 2008.
- POLICY '07 Apu Kapadia, Prasad Naldurg, and Roy H. Campbell, "Distributed Enforcement of Unlinkability Policies: Looking Beyond the Chinese Wall," In Proceedings of The Eighth IEEE Workshop on Policies for Distributed Systems and Networks (POLICY '07), pp. 141–150, Bologna, Italy, June 13–15, 2007.
- POLICY '04 Apu Kapadia, Prasad Naldurg, and Roy H. Campbell, "Routing with Confidence: Supporting Discretionary Routing Requirements in Policy Based Networks," In Proceedings of Fifth IEEE International Workshop on Policies for Distributed Systems and Networks (POLICY '04), pp. 45–54, Yorktown Heights, New York, June 7-9, 2004.
- GLOBECOM '02 Wu-chun Feng, Apu Kapadia, and Sunil Thulasidasan, "GREEN: Proactive Queue Management over a Best-Effort Network," In Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '02), 21(1):1784-1788, Taipei, Taiwan, November 17-21, 2002.
 - IC '00 Apu Kapadia, Jalal Al-Muhtadi, Roy H. Campbell, and Dennis Mickunas, "I-RBAC 2000: Secure Interoperability Using Dynamic Role Translation," In Proceedings of The First International Conference on Internet Computing (IC '00), pp. 231–238, Las Vegas, Nevada, June 26-29, 2000.

Peer-Reviewed Posters, Poster Abstracts, Extended Abstracts, and Work-in-Progress Papers

- **SOUPS '20** Rakibul Hasan, Bennett I. Bertenthal, Kurt Hugenberg, and Apu Kapadia, "Your Photo is so Funny that I don't Mind Violating Your Privacy by Sharing it: Individual Humor Styles and Photo-sharing Behaviors." Symposium on Usable Privacy and Security (SOUPS 2020).
- CV-COPS '17 Eman Hassan, Rakibul Hasan, Patrick Shaffer, David Crandall, and Apu Kapadia. "Cartooning for Enhanced Privacy in Lifelogging and Streaming Video". In IEEE Conference on Computer

- Vision and Pattern Recognition Workshop on Computer Vision Challenges and Opportunities for Privacy and Security (CV-COPS), 2017.
- NDSS '14 Mohammed Korayem, David Crandall, and Apu Kapadia, "Objectavoider: Detecting Sensitive Objects in Imagery from Wearable Cameras (Poster)". In The 21st Annual Network & Distributed System Security Symposium (NDSS '14), San Diego, CA, February 23–26, 2014.
- CSCW '13 Roberto Hoyle, Sameer Patil, Dejanae White, Jerald Dawson, Paul Whalen, and Apu Kapadia, "Attire: Conveying Information Exposure through Avatar Apparel (Demo)," In Proceedings of The 2012 ACM Conference on Computer Supported Cooperative Work Companion (CSCW '13), pp. 19–22, San Antonio, Texas, USA, February 23–27, 2013.
- CHI EA '12 Sameer Patil, Greg Norcie, Apu Kapadia, and Adam J. Lee, "'Check out where I am!": Location Sharing Motivations, Preferences, and Practices,' In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems Extended Abstracts (CHI EA '12), pp. 1997–2002, Austin, TX, May 5–10, 2012.
- CSCW '12 Sameer Patil and Apu Kapadia, "Are You Exposed? Conveying Information Exposure (Extended Abstracts)," In Proceedings of The 2012 ACM Conference on Computer Supported Cooperative Work Companion (CSCW '12), pp. 191–194, Seattle, WA, USA, February 11–15, 2012.
- CSIIRW '10 Matthew Wright, Apu Kapadia, Mohan Kumar, and Apurv Dhadphale, "ReDS: Reputation for Directory Services in P2P Systems (Extended Abstract)," In Proceedings of the 6th Annual Cyber Security and Information Intelligence Research Workshop (CSIIRW '10), Article 71, 4 pages, Oak Ridge, TN, April 21–23, 2010.
- SOUPS '08 Fabeah Adu-Oppong, Casey K. Gardiner, Apu Kapadia, and Patrick P. Tsang, "Social Circles: Tackling Privacy in Social Networks (Poster Abstract)," Fourth Symposium on Usable Privacy and Security (SOUPS '08), Pittsburgh, Pennsylvania, July 23–25, 2008.
- MOBISYS '08 Minho Shin, Cory Cornelius, Daniel Peebles, Apu Kapadia, Patrick Tsang and David Kotz, "SenseRight: Reliable People-centric Sensing with Unreliable Participants (Poster Abstract)," The 6th ACM/USENIX International Conference on Mobile Systems, Applications, and Services (MOBISYS '08), Breckenridge, Colorado, June 17–20, 2008.
 - SOUPS '07 Katelin Bailey, Linden Vongsathorn, Apu Kapadia, Chris Masone, Sean W. Smith, "TwoKind Authentication: Usable Authenticators for Untrustworthy Environments (Poster Abstract)," In Proceedings of the Third Symposium on Usable Privacy and Security (SOUPS '07), pp. 169–170, Pittsburgh, Pennsylvania, July 18–20, 2007.
 - WATC '06 Patrick P. Tsang, Apu Kapadia, and Sean W. Smith, "Anonymous IP-Address Blocking in Tor with Trusted Computing (Work in Progress)," The Second Workshop on Advances in Trusted Computing (WATC '06), Tokyo, Japan, November 30–December 1, 2006.
- MIDDLEWARE '04 Raquel Hill, Jalal Al-Muhtadi, Roy Campbell, Apu Kapadia, Prasad Naldurg, Anand Ranganathan, "A Middleware Architecture for Securing Ubiquitous Computing Cyber Infrastructures (Work in Progress)," ACM/IFIP/USENIX Fifth International Middleware Conference (MIDDLEWARE '04), Toronto, Canada, October 18th–22nd, 2004. Appears in IEEE Distributed Systems Online, 5(9), September 2004.

Peer-Reviewed Position Papers and Abstracts at Workshops without Proceedings

Mohammed Korayem, Robert Templeman, Dennis Chen, Apu Kapadia, and David Crandall, "Enhancing lifelogging privacy through computer vision," In ACM International Conference on Multimedia Workshop on Lifelogging Tools and Applications, 2016.

Patrick Shaffer, Tousif Ahmed, Roberto Hoyle, Kay Connelly, David Crandall, and Apu Kapadia, "Surveillance considerations concerning assistive devices for people with visual impairments," In ACM SIGCHI Conference on Human Factors in Computing Systems Workshop on Everyday Surveillance, San Jose, CA, USA, 2016.

Tousif Ahmed, Roberto Hoyle, Patrick Shaffer, Kay Connelly, David Crandall, and Apu Kapadia, "Considering privacy implications of assistive devices for people with visual impairments," ACM CHI Workshop on Interactive Systems in Healthcare (WISH), San Jose, CA, USA, 2016.

Roberto Hoyle, Apu Kapadia, and David Crandall, "Challenges in running wearable camera-related user studies," In ACM Conference on Computer-Supported Cooperative Work and Social Computing Workshop on The Future of Networked Privacy: Challenges and Opportunities, 2015.

Sameer Patil and Apu Kapadia, "Are you exposed? Conveying information exposure." Position paper for Workshop on Reconciling Privacy with Social Media at The ACM Conference on Computer Supported Cooperative Work (CSCW), Seattle, WA, USA, 2012.

Kavin Chandrasekaran, Srikanth Iyer, David Crandall, and Apu Kapadia, "Automated activity monitoring using Kinect," Workshop on Evaluating Off-the-Shelf Technologies for Personal Health Monitoring at The ACM International Conference on Ubiquitous Computing (UbiComp), 2012.

Journal and Magazine Articles (Not Peer-Reviewed)

"Looking Backwards (and Forwards): NSF Secure and Trustworthy Computing 20-Year Retrospective Panel Transcription," Carl Landwehr, Michael K. Reiter, Laurie Williams, Gene Tsudik, Trent Jaeger, Tadayoshi Kohno, Apu Kapadia, IEEE Security & Privacy, vol. 21, no. 2, pp. 32–42, March-April 2023.

"(How) Do people change their passwords after a breach?," Sruti Bhagavatula, Lujo Bauer, and Apu Kapadia, USENIX ;login:, December 2021.

Apu Kapadia, "A Case (Study) For Usability in Secure Email Communication," IEEE Security and Privacy, 5(2):80–84, March/April 2007.

Invited Conference and Workshop Papers (Not Peer-Reviewed)

Alana Libonati, Kelly Caine, Apu Kapadia, and Michael K. Reiter, "Defending Against Device Theft with Human Notarization," In Proceedings of The 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom '14), Miami, FL, USA, October 22–25, 2014.

Apu Kapadia, David Kotz, and Nikos Triandopoulos, "Opportunistic Sensing: Security Challenges for the New Paradigm," In The First International Conference on Communication Systems and Networks (COMSNETS '09), Bangalore, India, January 5–10, 2009.

Theses

Apu Kapadia, "Models for Privacy in Ubiquitous Computing Environments," Ph.D. Thesis, University of Illinois at Urbana-Champaign, October 2005.

Apu Kapadia, "I-RBAC 2000: A Dynamic Role Translation Model For Secure Interoperability," M.S. Thesis, University of Illinois at Urbana-Champaign, May 2001.

Technical Reports

Mohammed Korayem, Robert Templeman, Dennis Chen, David J. Crandall, and Apu Kapadia, "ScreenAvoider: Protecting Computer Screens from Ubiquitous Cameras," CoRR arXiv Technical Report arXiv:1412.0008, November 2014.

Robert Templeman, Zahid Rahman, David Crandall, and Apu Kapadia, "PlaceRaider: Virtual Theft in Physical Spaces with Smartphones," CoRR arXiv Technical Report arXiv:1209.5982, September 2012.

Ruj Akavipat, Mahdi N. Al-Ameen, Apu Kapadia, Zahid Rahman, Roman Schlegel, and Matthew Wright, "ReDS: A Framework for Reputation-Enhanced DHTs," CoRR arXiv Technical Report arXiv:1209.4867, September 2012.

Sonia Jahid, Shirin Nilizadeh, Prateek Mittal, Nikita Borisov, and Apu Kapadia, "DECENT: A Decentralized Architecture for Enforcing Privacy in Online Social Networks," CoRR arXiv Technical Report arXiv:1111.5377v1, November 2011.

Patrick P. Tsang, Man Ho Au, and Apu Kapadia, "PEREA: Practical TTP-Free Revocation of Repeatedly Misbehaving Anonymous Users," Indiana University Technical Report TR688, July 2011.

Shirin Nilizadeh, Naveed Alam, Nathaniel Husted, and Apu Kapadia, "Pythia: A Privacy Aware, Peer-to-Peer Network for Social Search," Indiana University Technical Report TR687, October 2010.

Patrick P. Tsang, Apu Kapadia, Cory Cornelius, and Sean W. Smith, "Nymble: Blocking Misbehaving Users in Anonymizing Networks," Dartmouth Computer Science Technical Report 2008-637, December 2008.

Patrick P. Tsang, Man Ho Au, Apu Kapadia and Sean W. Smith, "BLAC: Revoking Repeatedly Misbehaving Anonymous Users Without Relying on TTPs," Dartmouth Computer Science Technical Report 2008-635, October 2008.

Katelin Bailey, Apu Kapadia, Linden Vongsathorn, and Sean W. Smith, "TwoKind Authentication: Protecting Private Information in Untrustworthy Environments (Extended Version)," Dartmouth Computer Science Technical Report TR2008-632, August 2008.

Patrick P. Tsang, Man Ho Au, Apu Kapadia, and Sean W. Smith, "Blacklistable Anonymous Credentials: Blocking Misbehaving Users without TTPs (Extended Version)," Dartmouth Computer Science Technical Report TR2007-601, September 2007.

Peter C. Johnson, Apu Kapadia, David Kotz, and Nikos Triandopoulos, "People-Centric Urban Sensing: Security Challenges for the New Paradigm," Dartmouth Computer Science Technical Report TR2007-586, Feb 2007.

Apu Kapadia, Prasad Naldurg, and Roy H. Campbell, "Distributed Enforcement of Unlinkability

Policies: Looking Beyond the Chinese Wall," UIUC Technical Report UIUCDCS-R-2006-2689 (UILU-ENG-2006-1718), February 2006.

Apu Kapadia, Prasad Naldurg, and Roy H. Campbell, "Routing with Confidence: A Model for Trustworthy Communication," UIUC Technical Report UIUCDCS-R-2006-2680 (UILU-ENG-2006-1707), Jan 2006.

Apu Kapadia, Wu-chun Feng, and Roy H. Campbell, "GREEN: A TCP Equation-Based Approach to Active Queue Management," UIUC Technical Report: UIUCDCS-R-2004-2408/UILU-ENG-2004-1710, February 2004.

Academic Activities

Teaching Enhancement

TRESTLE Fellow May 2017–Apr 2019

Participant in the Transforming Education, Stimulating Teaching and Learning Excellence (TRES-TLE) Project, Multi-Institution, NSF Funded

Teaching Experience

G: Graduate course; U: Undergraduate course; U/G: Undergraduate and Graduate course

Indiana University

Instructor, CSCI-A 542: Technical Foundations in Cybersecurity (G)	Spring 2022
Instructor, CSCI-B 430/INFO-I 430: Security For Networked Systems (U)	Fall 2021
Instructor, CSCI-A 542: Technical Foundations in Cybersecurity (G)	Spring 2021
Instructor, CSCI-B 430/INFO-I 430: Security For Networked Systems (U)	Fall 2020
Instructor, CSCI-A 542: Technical Foundations in Cybersecurity (G)	Spring 2020
Instructor, CSCI-B 430/INFO-I 430: Security For Networked Systems (U)	Fall 2019
Instructor, INFO-I 590: Technical Foundations in Cybersecurity (G)	Spring 2019
Instructor, CSCI-B 430/INFO-I 430: Security For Networked Systems (U)	Fall 2018
Instructor, CSCI-B 433/INFO-I 433: Systems & Protocol Security & Info. Assurance (U)	Spring 2018
Instructor, CSCI-B 430/INFO-I 430: Security For Networked Systems (U)	Fall 2017
Instructor, CSCI-B 649/INFO-I 433: Systems & Protocol Security & Info. Assurance (U)	Spring 2017
Instructor, CSCI-B 649/INFO-I 590: Advanced Topics in Privacy (G)	Spring 2016
Instructor, INFO-I 230: Analytical Foundations of Security (U)	Fall 2015
Instructor, CSCI-B 649/INFO-I 520: Security For Networked Systems (G)	Spring 2015
Instructor, CSCI-P 538: Computer Networks (G)	Fall 2014
Instructor, CSCI-B 649/INFO-I 590: Advanced Topics in Privacy (G)	Spring 2014
Instructor, CSCI-P 538: Computer Networks (G)	Fall 2013
Instructor, CSCI-B 649/INFO-I 430/520: Security For Networked Systems (U/G)	Spring 2013
Instructor, INFO-I 230: Analytical Foundations of Security (U)	Fall 2012
Instructor, CSCI-B 649/INFO-I 433/533: Systems & Protocol Security & Info. Assurance ((U/G) Spring
2012	
Instructor, CSCI-B 649/INFO-I 590: Advanced Topics in Privacy (G)	Fall 2011
Instructor, I-308: Information Representation (U)	Spring 2011
Instructor, CSCI-B 649/INFO-I 590: Advanced Topics in Privacy (G)	Fall 2010
Instructor, INFO-I 400/590: Advanced Security and Privacy (U/G)	Spring 2010
Instructor, INFO-I 590: Advanced Topics in Privacy (G)	Fall 2009

Faculty supervisor of Security Reading Group Seminar

Sep 2009-2019

Luddy School of Informatics, Computing, and Engineering, Indiana University Bloomington

Dartmouth College

Instructor, CS 38: Security and Privacy (U/G)

Fall 2007

Founder and facilitator of Security Reading Group Seminar Institute for Security Technology Studies (ISTS), Dartmouth College Nov 2005-Aug 2008

University of Illinois at Urbana-Champaign

Co-founder and co-facilitator of Security Reading Group Seminar

Sep 2000–May 2005

Master Classes

SICSA Masterclass: Mobile User Studies and Experience Sampling

August, 2012

Distinguished SICSA Visitor (Scottish Informatics and Computer Science Alliance) Two-day master class held at University of St Andrews and University of Glasgow

Co-instructed with Tristan Henderson

Outreach Activities

Video host October, 2010

Social Networking Do's and Don'ts (4 min, 19 sec)

http://www.securitymatters.iu.edu/social-networking/

Produced by the Center for Applied Cybersecurity Research

Indiana University Bloomington

Co-Lead Instructor June 23–27, 2008

Make and Break Cryptographic Security Summer Camp for Grades 10–12

Department of Computer Science, Dartmouth College

Lead Instructor June 25–29, 2007

Cybersecurity Summer Camp for Grades 10–12

Department of Computer Science, Dartmouth College

Security and Programming Instructor July 10–28, 2006

Summer Robotics Camp

Camp I (Grades 6–8), Camp II (Grades 6–8), and Camp III (Grade 9)

Department of Computer Science, Dartmouth College

PhD Thesis Committees Advisees (Chair)

Taslima Akter Defended April 2022

Chair, Indiana University

Imtiaz Ahmad Defended August 2022

Chair, Indiana University

Yasmeen Rashidi Defended Jun 2021

How young adults manage privacy and maintain

social norms in the era of pervasive photography and social media

Chair, Indiana University

Rakib Hasan Defended Sep 2020

A socio-technical approach to protecting people's

Privacy in the context of sharing images on social Media

Chair, Indiana University

Tousif Ahmed Defended Nov 2018

Towards the Design of Wearable Assistive Technologies to Address the Privacy and Security Concerns of People with Visual Impairments

Chair, Indiana University

Qatrunnada Ismail Defended Oct 2018

Crowdsourcing Permission Settings for Mobile Apps to Help Users Balance Privacy and Usability

Chair, Indiana University

Roberto Hoyle Defended Jul 2016

Privacy considerations in the context of wearable cameras

Chair, Indiana University

Robert Templeman Defended Dec 2014

Safe Sensing: Controlling Exposure in a Sensor Rich World

Chair, Indiana University

Shirin Nilizadeh Defended Jun 2014

Privacy-aware Decentralized Architectures for Socially Networked Systems

Chair, Indiana University

Dissertation Committee Member

Sruti Bhagavatula Defended Sep 2021

Carnegie Mellon University

Jayati Dev Proposed Sep 2021

Indiana University

Adithya Vadapalli Defended May 2021

Indiana University

Shakthidhar Gopavaram Proposed Mar 2021

Indiana University

Eman Hassan Defended Mar 2021

Indiana University

Syed Hafiz Defended Jan 2021

Indiana University

Tribhuvanesh Orekondy Defended Dec 2020

University of Saarland

Yifang Li Defended Jun 2020

Clemson University

Ruiyu Zhu Defended Jun 2020

Indiana University

XiangHang Mi Defended May 2020

Indiana University

Sanchari Das Defended Dec 2019

Indiana University

Bryan Dosono Syracuse University	Defended Apr 2019
Adam Shull Indiana University	Defended Jan 2018
Luka Malisa ETH Zurich	Defended July 2017
Andrew Kaizer Indiana University	Defended May 2017
Sumayah Alrwais Indiana University	Defended Dec 2016
Aarathi Prasad Dartmouth College	Defended Apr 2016
Zheng Dong Indiana University	Defended Aug 2015
Mohammed Korayem Indiana University	Defended May 2015
Alana Libonati University of North Carolina at Chapel Hill	Proposed Sep 2014
Xiaoyong Zhou Indiana University	Defended Jul 2014
Nathaniel Husted Indiana University	Defended May 2014
Zhou Li Indiana University	Defended Nov 2013
Sonia Jahid University of Illinois at Urbana-Champaign	Defended Jul 2013
Vaibhav Garg Indiana University	Defended Dec 2012
Kehuan Zhang Indiana University	Defended Aug 2012
Youngsang Shin Indiana University	Defended Jul 2011
Alexander Iliev Dartmouth College	Defended Sep 2008

MS Thesis Committees Pranay Sogani <i>Chair</i>	Deposited May 2015
Noman Abu Saleh Committee member	Deposited Dec 2019
Advising Sameer Patil (Postdoc) Indiana University Bloomington	Spring 2011–Summer 2012
Shirin Nilizadeh (Postdoc) Indiana University Bloomington	Summer 2014–2015
Tousif Ahmed (Postdoc) Indiana University Bloomington	Spring 2019
Sabid Bin Habib (PhD) Indiana University Bloomington	Fall 2020–Current
John Stein (PhD) Indiana University Bloomington	Fall 2019–Current
Imtiaz Ahmad (PhD) Indiana University Bloomington	Fall 2017–Current
Taslima Akter (PhD) Indiana University Bloomington	Fall 2016–Current
Pat Shaffer (PhD) Indiana University Bloomington	Fall 2015–Current
Rakib Hasan (PhD) Indiana University Bloomington	Fall 2015–Current
Patrick Shaffer (PhD) Indiana University Bloomington	Fall 2015–Current
Tousif Ahmed (PhD) Indiana University Bloomington	Fall 2013–Current
Qatrunnada Ismail (PhD) Indiana University Bloomington	Fall 2013–Current
Roberto Hoyle (PhD) Indiana University Bloomington	Summer 2012–2016
Shirin Nilizadeh (PhD) Indiana University Bloomington	Fall 2010–Spring 2014

Apu Kapadia: Cı	ırriculum Vitae
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Zheng Dong (PhD) Fall 2011–2015

Co-advised with Jean Camp Indiana University Bloomington

Greg Norcie (PhD) Fall 2011–Spring 2012

Indiana University Bloomington

Zahidur Rahman (PhD) Fall 2011–on leave

Indiana University Bloomington

Robert Templeman (PhD) Fall 2011–Fall 2014

Indiana University Bloomington

Naveed Alam (MSSI) Fall 2010–May 2011

Indiana University Bloomington

Roman Schlegel (PhD, Visiting Scholar) Spring 2011–Fall 2011

City University of Hong Kong

Visiting Indiana University Bloomington

Roman Schlegel (PhD, Intern) Fall 2009

City University of Hong Kong

Visiting Indiana University Bloomington

Graduate Mentoring

Patrick P. Tsang (PhD student) Fall 2005–Summer 2008

Department of Computer Science, Dartmouth College

Peter C. Johnson (Masters student) Fall 2006–Summer 2007

Department of Computer Science, Dartmouth College

Undergraduate Mentoring

Undergraduate students

Tyler Dell, NSF REU, Indiana University Bloomington

Eun Seong, NSF REU, Indiana University Bloomington

Emily Fath, NSF REU, Indiana University Bloomington

Felicia Patel, NSF REU, Indiana University Bloomington

Zhipeng Tian, Indiana University Bloomington

Anthony Monaco, Indiana University Bloomington

Paul Whalen, NSF REU, Indiana University Bloomington

Steven Armes, NSF REU, Indiana University Bloomington

Tadeusz Reyher, NSF REU, Indiana University Bloomington

Daniel Olsson, NSF REU, Indiana University Bloomington

Grant Muterspaugh, NSF REU, Indiana University Bloomington

Aaron Porter, NSF REU, Indiana University Bloomington

Michael Lee, Summer NSF REU intern from Rose Hulman Institute of Technology

Jeffrey Fielding, Dartmouth College

Summer Interns (HBCU Internship Program), Indiana University Bloomington

Ashley Clodfelter, North Carolina A&T State University, 2011

Alana Anderson, North Carolina A&T State University, 2011

Cornelius Myles, Mississippi Valley State University, 2012

Jerald Dawson, Jackson State University, 2012

Dejanae White, North Carolina A&T State University, 2012

Our research was published as a demo abstract at the ACM Conference on Computer Supported Cooperative Work (CSCW '13).

Ahmal Baloubi, Shaw University, 2013

Jarvis Brewer, Savannah State University, 2013

Joshua Pinckney-Pierce, University of the District of Columbia, 2014

Joshua Sherfield, Norfolk State University, 2014

Henry Akaeze, Mississippi Valley State University, 2015

Serigne Sene, Dillard University, 2015

Nigel Pugh, Elizabeth City State University, 2016

Joshua Bailey, Mississippi Valley State University, 2016

Undergraduate interns for Women in Science Project (WISP), Dartmouth College

Katelin Bailey, Linden Vongsathorn

Our research was published as a poster abstract at the Symposium on Usable Privacy and Security (SOUPS '07), and as a short paper at the Workshop on Privacy in the Electronic Society (WPES '08).

Casey Gardiner, Fabeah Adu-Oppong

Our research was published as a poster abstract at the Symposium on Usable Privacy and Security (SOUPS '08)

Mentor: Prof. Wu-chun Feng

Proactive queue management schemes

GRADUATE RESEARCH ASSISTANT, RADIANT Group

May 2000-Aug 2000

Research and Academic Appointments Indiana University Bloomington ASSOCIATE DEAN FOR GRADUATE STUDIES Luddy School of Informatics, Computing, and Engineering	Jul 2023–Present
CHAIR AND DIRECTOR OF MS CYBERSECURITY RISK MANAGEMENT PROGRAM University Graduate School	Jul 2022–Present
ASSOCIATE DIRECTOR OF SECURITY PROGRAMS Luddy School of Informatics, Computing, and Engineering	Jul 2017–2022
PROFESSOR OF COMPUTER SCIENCE Luddy School of Informatics, Computing, and Engineering	Jul 2021–Present
ASSOCIATE PROFESSOR OF COMPUTER SCIENCE Luddy School of Informatics, Computing, and Engineering	Jul 2015–Jun 2021
ASSISTANT PROFESSOR OF COMPUTER SCIENCE AND INFORMATICS School of Informatics and Computing	Sep 2009–Jun 2015
MIT Lincoln Laboratory MEMBER OF TECHNICAL STAFF, Information Systems Technology Group Research position exploring topics such as Intrusion Detection	Sep 2008–Aug 2009
Dartmouth College RESEARCH ASSISTANT PROFESSOR, Department of Computer Science	Jul 2008–Aug 2008
POST-DOCTORAL RESEARCH FELLOW, Institute for Security Technology Studie PKI/Trust Lab with Prof. Sean W. Smith, and Center for Mobile Computing (CMC) with Prof. David Kotz	s Oct 2005–Jun 2008
Microsoft Research India, Bangalore (MSRI) VISITING RESEARCHER, Rigorous Software Engineering Group (RSE) Policy languages for privacy	Aug 2007
University of Illinois at Urbana-Champaign (UIUC) DOE RESEARCH FELLOW Advisor: Prof. Roy H. Campbell Anonymity, privacy, security aware routing, and policy protection	Sep 2001–Aug 2005
RESEARCH ASSISTANT, Systems Software Research Group Advisor: Prof. Roy H. Campbell Secure interoperability using dynamic role translation	Sep 1999–Aug 2001
Los Alamos National Laboratory (LANL) GRADUATE RESEARCH ASSISTANT, RADIANT Group Mantage Braf Was about Farms	May 2002–Aug 2002

Mentor: Prof. Wu-chun Feng

Rate-based protocols for congestion control

National Center for Supercomputing Applications (NCSA)

RESEARCH ASSISTANT, Horizon Group Jun 1999–Aug 1999

Implemented a distributed version of the Horizon Browser using RMI

RESEARCH ASSISTANT, Hierarchical Data Format Group Sep 1998–May 1999

Performance evaluation of "chunking" for PO.DAAC's (JPL, NASA) datasets

UNDERGRADUATE RESEARCH PROGRAMMER, Hierarchical Data Format Group Jan 1997–Jun 1997

Implemented a distributed version of the Java HDF Viewer using Java servlets

Industrial Appointments Jet Propulsion Laboratory (NASA)

SUMMER HIRE, Physical Oceanography DAAC (PO.DAAC)

Developed Java client and server code to serve satellite data

Jul 1998–Aug 1998

Vosaic

UNDERGRADUATE RESEARCH PROGRAMMER

Aug 1997-May 1998

Reflector code for streaming multimedia between Reflectors and RTSP servers

Strategic Technology Resources

SUMMER INTERN Jun 1997–Aug 1997

Developed a large multithreaded client application for an ISP system

Panels

RSA Conference 2019 Panelist at sessions 'Security, Privacy and Human Behavior' and 'Hacking the Human: Special Edition', 2019

Privacy in Eye Tracking

Panelist at 2019 ACM Symposium on Eye Tracking Research & Applications

Future of Privacy

Panelist at NSF Secure and Trustworthy Cyberspace (SaTC) Principal Investigators' Meeting, January 2015.

Cyber Spies and Cyber Warriors: The United States, China, and the Escalating Cybersecurity Crisis in World Affairs

Panelist at Center on American and Global Security (CAGS) Seminar, Indiana University, March 2013.

Invited Talks

"An Eye Towards Privacy Paradoxes and Promise in the Age of Pervasive Photography" Tufts University, February, 2020

"For the People: ?(Human) Factors to Consider in Security and Privacy Research" Keynote talk: Midwest Security Workshop, 2019

"When Electronic Privacy Gets Physical: Privacy in the Age of Sensors,"

Distinguished Speaker, Great Lakes Security Day, RIT, September 2018

CS Colloquium, Dartmouth College, November 2016

Privacy Seminar, Carnegie Mellon University, November 2016

Distinguished Seminar, CyLab Carnegie Mellon University, October 2016

CS Colloquium, University of Pittsburgh, September 2016

Information Privacy Workshop at iConference, March 2016

"Privacy in the Age of Pervasive Cameras: When Electronic Privacy gets Physical"

Rose-Hulman Instritute of Technology, 2019

RSA Conference, Sessions 'Security, Privacy and Human Behavior' and 'Hacking the Human: Special Edition', 2019

Seminar, University of Illinois at Urbana-Champaign, 2019

Distinguished Lecture Series, Laboratory of Education and Research in Security Assured Information Systems (LERSAIS), University of Pittsburgh, March 2015.

Indiana University Bloomington, CS Colloquium, February 2015.

"When Electronic Privacy gets Physical"

Panelist, *Future of Privacy*, at NSF Secure and Trustworthy Cyberspace (SaTC) Principal Investigators' Meeting, January 2015.

"Privacy in the Age of Pervasive Cameras"

Dartmouth College, May 2014.

Distinguished Lecturer Series, Kansas State University, April 2014.

Security Seminar, Georgia Tech, April 2014.

"PlaceAvoider: Steering First-Person Cameras away from Sensitive Spaces"

Department Colloquium, UNC Chapel Hill, February 2014.

MSR Talk Series, Microsoft Research Redmond, February 2014.

"PlaceRaider: Virtual Theft in Physical Spaces with Smartphones"

CMU CyLab Seminar, October 2013.

AT&T Labs, October 2013.

IEEE International Symposium on Technology and Society (ISTAS), June 2013.

University of Michigan, April 2013.

Kelley Technology Management Club, Indiana University, April 2013.

Palo Alto Research Center (PARC), February 2013.

Qualcomm Research Silicon Valley (QRSV), February 2013.

"(Ab)using Smartphone Sensors: Attacking and Reining in Privacy"

Distinguished Speaker, Workshop on Information Security and Privacy, Colorado Research Institute for Security and Privacy (CRISP), April 2013.

"Enhanced Privacy Through Exposure Control"

University of Glasgow, Scotland, August 2012.

I3P Privacy Workshop: Perceptions, Policies and Trade-offs, June 2012.

"(Ab)using Smartphone Sensors: Attacking and Reining in Privacy"

Information Trust Institute, University of Illinois at Urbana-Champaign, March 2012.

"Soundcomber: A Stealthy and Context-Aware Sound Trojan for Smartphones"

University of St Andrews, Scotland, August 2012. Purdue University, December 2011.

"Halo: High-Assurance Searches in Peer-to-Peer Networks" University of North Carolina, Chapel Hill, February 2010. Naval Postgraduate School, April 2009. Indiana University, March 2009. New Jersey Institute of Technology, February 2009.

"Accountable Anonymity"
George Mason University, July 2008.
MIT Lincoln Laboratory, June 2008.
IBM Zurich, May 2008.
Harvard University, April 2008.
Rochester Institute of Technology, April 2008.
Johns Hopkins University, March 2008.
University of Massachusetts Lowell, February 2008.
George Washington University, February 2008.
Towson University, February 2008.

"Nymble: Anonymous IP-Address Blocking" Indiana University, March 2009. Microsoft Research India, Bangalore, August 2007.

"Attribute-Based Publishing with Hidden Credentials and Hidden Policies" Microsoft Research India, Bangalore, August 2007.

"KNOW Why Your Access Was Denied: Usable Security in Ubiquitous Computing" DOE High-Performance Computer Science Fellowship Conference, June 2005. Presented by Geetanjali Sampemane and Apu Kapadia at CU Infosec, December 2004.

"Routing with Confidence: Supporting User Discretion in Policy Based Networks" DOE High-Performance Computer Science Fellowship Conference, July 2004.

"Latency Based Triangulation—Augmenting Application Layer Multicast" Outstanding Class Project, First Annual Illinois Computer Systems Symposium (iCSS), 2002.

Talks at Conferences and Workshops

"Crowdsourced Exploration of Security Configurations," The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '15), Seoul, Korea, April 2015

"Cachet: A Decentralized Architecture for Privacy Preserving Social Networking with Caching" The 8th ACM International Conference on Emerging Networking Experiments and Technologies (CoNEXT '12), Nice, France, December 2012

"Toward securing sensor clouds,"

The International Symposium on Collaborative Technologies

The International Symposium on Collaborative Technologies and Systems (CTS '11), Philadelphia, PA, May 2011

"TwoKind Authentication: Protecting Private Information in Untrustworthy Environments,"

Seventh ACM Workshop on Privacy in the Electronic Society (WPES '08), Alexandria, VA, October 2008

"AnonySense: Opportunistic and Privacy-Preserving Context Collection" Sixth International Conference on Pervasive Computing (PERVASIVE '08), Sydney, Australia, May 2008.

"Nymble: Anonymous IP-Address Blocking" Seventh Privacy Enhancing Technologies Symposium (PETS '07), Ottawa, Canada, June 2007.

"Distributed Enforcement of Unlinkability Policies: Looking Beyond the Chinese Wall" Eighth IEEE Workshop on Policies for Distributed Systems and Networks (POLICY '07), Bologna, Italy, June 2007.

"Virtual Walls: Protecting Digital Privacy in Pervasive Environments" Fifth International Conference on Pervasive Computing (PERVASIVE '07), Toronto, Canada, May 2007.

"Attribute-Based Publishing with Hidden Credentials and Hidden Policies" Fourteenth Annual Network and Distributed System Security Symposium (NDSS '07), San Diego, CA, February/March 2007.

"Anonymous IP-Address Blocking in Tor with Trusted Computing (Work in Progress)" Second Workshop on Advances in Trusted Computing (WATC '06), Tokyo, Japan, November/December 2006.

"Routing with Confidence: Supporting User Discretion in Policy Based Networks" Fifth IEEE International Workshop on Policies for Distributed Systems and Networks (POLICY 2004), Yorktown Heights, New York, June 2004.

"GREEN: Proactive Queue Management over a Best-Effort Network" IEEE Global Telecommunications Conference (GLOBECOM 2002), Taipei, Taiwan, November 2002.

"I-RBAC 2000: Secure Interoperability Using Dynamic Role Translation" First International Conference on Internet Computing (IC 2000), Las Vegas, Nevada, June 2000.

Professional Activities

NSF Review Panels

Years: 2011, 2012, 2013, 2015, 2017, 2019

Award Committees

Co-Chair, The Andreas Pfitzmann Best Student Paper Award, 2021

PET Award Committee, Award for Outstanding Research in Privacy Enhancing Technologies, 2021 Co-Chair, The Andreas Pfitzmann Best Student Paper Award, 2017

PET Award Committee, Award for Outstanding Research in Privacy Enhancing Technologies, 2010

Editor

PoPETs (Proceedings on Privacy Enhancing Technologies), Journal Co-Editor-in-Chief, 2015–2016 ACM Transactions on the Web (TWEB), Associate Editor, 2016–2021

IEEE Security & Privacy Magazine, Associate Editor, 2022–present

IEEE Security & Privacy Magazine, Guest Co-Editor, Special Issue on Inclusive Privacy and Security, 2024

Program Chairs

Subcommittee Co-Chair (Security and Privacy), ACM CHI Conference on Human Factors in Computing Systems (CHI), 2022

Subcommittee Co-Chair (Security and Privacy), ACM CHI Conference on Human Factors in Computing Systems (CHI), 2021

Program Co-Chair, The Fourth International Workshop on The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security (**CV-COPS**), 2020

Program Co-Chair, The Third International Workshop on The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security (**CV-COPS**), 2019

Program Co-Chair, The Second International Workshop on The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security (**CV-COPS**), 2018

Program Co-Chair, The First International Workshop on The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security (**CV-COPS**), 2017

Program Co-Chair, Privacy Enhancing Technologies Symposium (PETS), 2016

Program Co-Chair, Privacy Enhancing Technologies Symposium (PETS), 2015

Program Co-Chair, USENIX Summit on Health Information Technologies (HealthTech), 2015

Chair, Workshop on Privacy Enhancing Tools (PETools), 2013

Organizing Committee Chair Positions

General Chair, Symposium On Usable Privacy and Security (**SOUPS**), 2021–2024 Publications Co-Chair, ACM Conference on Computer and Communications Security (**CCS**), 2017 Workshop Co-chair, ACM Conference on Computer and Communications Security (**CCS**), 2012

Organizing Committees

Board Member, Privacy Enhancing Technologies Symposium (PETS), 2015–Present Steering Committee, Symposium On Usable Privacy and Security, SOUPS 2016–2022 Steering Committee, Special Workshop on Information Privacy, iConference 2013 Local Arrangements Committee, Privacy Enhancing Technologies Symposium (PETS), 2013

Session Chairs

Privacy, ACM Conference on Computer and Communications Security (**CCS**), 2018

Legal and Policy Issues, Workshop on Usable Privacy & Security for wearable and domestic ubIquitous DEvices (**UPSIDE**), 2014

Authentication and Identity I, Network & Distributed System Security Symposium (NDSS), 2014 Human-Centered Privacy and Security, Birds-of-a-Feather session at IEEE Symposium on Security and Privacy (Oakland), 2013

Authentication, Network & Distributed System Security Symposium (NDSS), 2013

Advertising Security & Privacy, ACM Conference on Computer and Communications Security (CCS), 2012

Wild Woolly Web, ACM Conference on Computer and Communications Security (CCS), 2011

Network and System Privacy, ACM Workshop on Privacy in the Electronic Society (WPES), 2011

Privacy Attacks, Risks, Countermeasures, ACM Workshop on Privacy in the Electronic Society (WPES), 2010

Anonymization, ACM Conference on Computer and Communications Security (**CCS**), 2009 Location Privacy, ACM Workshop on Privacy in the Electronic Society (**WPES**), 2008 Privacy in distributed systems, ACM Workshop on Privacy in the Electronic Society (**WPES**), 2007 Grid and Trusted Domain, Workshop on Advances in Trusted Computing (**WATC**), 2006

Program Committees

2024

IEEE Symposium on Security & Privacy (**S&P**), 2024 ACM CHI Conference on Human Factors in Computing Systems (**CHI**), 2024

2022

International Privacy Enhancing Technologies Symposium (**PETS**), 2022 USENIX Security Symposium (**USENIX Security**), 2022

2021

USENIX Security Symposium (USENIX Security), 2021

2020

USENIX Security Symposium (**USENIX Security**), 2020 ACM CHI Conference on Human Factors in Computing Systems (**CHI**), 2020 Symposium On Usable Privacy and Security (**SOUPS**), 2020

2010

CSCW Workshop: Ubiquitous Privacy: Research and Design for Mobile and IoT Platforms, 2019 ACM CHI Conference on Human Factors in Computing Systems (CHI), 2019 Symposium On Usable Privacy and Security (SOUPS), 2019 International Privacy Enhancing Technologies Symposium (PETS), 2019 Workshop on Usable Security (USEC), 2019

2018

ACM Conference on Computer and Communications Security (CCS), 2018
ACM CHI Conference on Human Factors in Computing Systems (CHI), 2018
International Privacy Enhancing Technologies Symposium (PETS), 2018
Symposium On Usable Privacy and Security (SOUPS), 2018
ACM Workshop on Privacy in the Electronic Society (WPES), 2018
Workshop on Usable Security (USEC), 2018

2017

Symposium On Usable Privacy and Security (**SOUPS**), 2017 International Privacy Enhancing Technologies Symposium (**PETS**), 2017 ACM Workshop on Privacy in the Electronic Society (**WPES**), 2017

2016

Symposium On Usable Privacy and Security (**SOUPS**), 2016 International Workshop on Privacy Engineering (**IWPE**), 2016

2015

ISOC Network & Distributed System Security Symposium (NDSS), 2015 Workshop on Wearable Security and Privacy (WEARABLE-S&P), 2015

2014

IEEE Symposium on Security and Privacy (Oakland), 2014

ISOC Network & Distributed System Security Symposium (NDSS), 2014

Privacy Enhancing Technologies Symposium (PETS), 2014

Symposium On Usable Privacy and Security (SOUPS), 2014

IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), 2014

ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec), 2014

USENIX Summit on Health Information Technologies (HealthTech), 2014

Workshop on Usable Privacy & Security for wearable and domestic ubIquitous DEvices (UPSIDE), 2014

International Conference on Mobile Computing, Applications and Services (MobiCASE), 2014

2013

ACM Conference on Computer and Communications Security (CCS), 2013

ISOC Network & Distributed System Security Symposium (NDSS), 2013

Privacy Enhancing Technologies Symposium (PETS), 2013

Symposium On Usable Privacy and Security (SOUPS), 2013

ACM Workshop on Privacy in the Electronic Society (WPES), 2013

International Conference on Distributed Computing Systems (ICDCS), 2013

Annual Computer Security Applications Conference (ACSAC), 2013

International Conference on Trust & Trustworthy Computing (TRUST), 2013

Journal "mini-PC" for IEEE Transactions on Parallel and Distributed Systems (**TPDS**) Special Issue on Trust, Security and Privacy in Parallel and Distributed Systems

2012

Symposium On Usable Privacy and Security (SOUPS), 2012

ACM Workshop on Privacy in the Electronic Society (WPES), 2012

International Conference on Trust and Trustworthy Computing (TRUST), 2012

Australasian Conference on Information Security and Privacy (ACISP), 2012

International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use (IWSSI/SPMU), 2012

2011

ACM Conference on Computer and Communications Security (CCS), 2011

International Conference on Applied Cryptography and Network Security (ACNS), 2011

ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2011

Annual Computer Security Applications Conference (ACSAC), 2011

International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use (IWSSI/SPMU), 2011

2010

ACM CCS Workshop on Insider Threats (WITS), 2010

ACM Workshop on Privacy in the Electronic Society (WPES), 2010

ACM Conference on Computer and Communications Security (CCS), 2010

International Conference on Distributed Computing Systems (ICDCS), 2010

Second International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use (IWSSI/SPMU), 2010

Privacy Enhancing Technologies Symposium (PETS), 2010

Security and Privacy Track at the International World Wide Web Conference (WWW), 2010

Privacy on the Web, Technical Track at ACM Symposium on Applied Computing (SAC), 2010

2009

International Workshop on Data Privacy Management (DPM), 2009

ACM Conference on Computer and Communications Security (CCS), 2009

IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT), 2009

Privacy Enhancing Technologies Symposium (PETS), 2009

2008

ACM Workshop on Privacy in the Electronic Society (WPES), 2008

Privacy Enhancing Technologies Symposium (PETS), 2008

IEEE International Conference on Sensor Networks, Ubiquitous and Trustworthy Computing (SUTC), 2008

2007, 2006

ACM Workshop on Privacy in the Electronic Society (WPES), 2007

International Workshop on the Value of Security through Collaboration (SECOVAL), 2007

IEEE International Workshop on Trust, Security, and Privacy for Ubiquitous Computing (TSPUC), 2007

International Conference on Computer Communications and Networks (ICCCN), 2006

Reviewer (Partial Listing)

Journals

ACM Transactions on Information and System Security (TISSEC)

Journal of Computer Security (JCS)

IEEE Transactions on Dependable and Secure Computing (TDSC)

IEEE Security and Privacy Magazine

ACM Computing Surveys

IEEE Magazine

IEEE Transactions on Multimedia

IEEE Transactions on Mobile Computing (TMC)

IEEE Pervasive

Elsevier Ad Hoc Networks Journal (ADHOC)

Elsevier Pervasive and Mobile Computing Journal (PMC)

Elsevier Computer Networks, Journal of Computer and Telecommunications Networking

Elsevier Journal of Systems and Software

Journal of Zhejiang University SCIENCE (JZUS)

Conferences and Workshops

The Eighth International Conference on Pervasive Computing

ACM Computer and Communications Security (CCS)

ACM Conference on Object-Oriented Programming Systems, Languages and Applications (OOP-SLA)

ACM/USENIX International Conference on Mobile Systems, Applications, and Services (MobiSys)

ACM International Conference on Mobile Computing and Networking (MobiCom)

IEEE International Conference on Distributed Computing Systems (ICDCS)

IEEE International Conference on Communication Systems (ICCS)

ISOC Network and Distributed System Security Symposium (NDSS)

IFIPTM Joint iTrust and PST Conferences on Privacy, Trust Management and Security

International Workshop on Security for Spontaneous Interaction (IWSSI)

European PKI Workshop (EuroPKI)

Memberships

Member of Association for Computing Machinery (ACM)

The Institute of Electrical and Electronics Engineers (IEEE)

Other Professional Activities

Affiliate of the Alliance for the Advancement of African-American Researchers in Computing (A4RC)

Co-organizer of ISTS Summer Cryptography Workshop (*Instructor: Patrick P. Tsang*), Dartmouth College, 2006

Fellowships, Awards, and Admissions Committee

Department of Computer Science, University of Illinois at Urbana-Champaign, 2002

Volunteering

Pattern Languages of Programs Conference (PLoP '99)

Graduate Student Recruiting Campus Tours, University of Illinois at Urbana-Champaign