Blase Eric Ur

CONTACT INFORMATION

blase@uchicago.edu
https://www.blaseur.com
Office phone: (773)834-3034
Office: John Crerar Library (JCL) 363

RESEARCH AREA

Security & Privacy; Human-Computer Interaction (HCI); Usable Security & Privacy; Ethical AI

EMPLOYMENT

University of Chicago, Chicago, IL **January 2017 – present**
Associate Professor of Computer Science (July 2023 – present)
Assistant Professor of Computer Science (January 2022 – June 2023)
Neubauer Family Assistant Professor of Computer Science (January 2017 – December 2021)

Carnegie Mellon University, Pittsburgh, PA **July 2011 – August 2016**
Ph.D. Student

Microsoft Research, Redmond, WA **May 2013 – August 2013**
Research Intern

Rutgers University School of Engineering, New Brunswick, NJ **August 2007 – August 2010**
Program Development Specialist, Senior Project Coordinator

EDUCATION

Carnegie Mellon University (School of Computer Science), Pittsburgh, PA

Ph.D. in Societal Computing, 2016
M.S. in Computation, Organizations, and Society, 2014

- Advisor: Lorrie Faith Cranor
- Thesis: "Supporting Password-Security Decisions with Data"
- Thesis Committee: Alessandro Acquisti (CMU); Lujo Bauer (CMU); Lorrie Faith Cranor (CMU); Jason Hong (CMU); Michael K. Reiter (UNC Chapel Hill)

Harvard University (Faculty of Arts and Sciences), Cambridge, MA

A.B. in Computer Science, Cum Laude, 2007

- Recommended by the Computer Science Department for "High Honors in Computer Science"
- Thesis: "Privacy in Social Networking: A Usability Study of Privacy Interfaces for Facebook"
- Primary Thesis Advisors: Michael D. Smith and Rachna Dhamija

HONORS AND AWARDS

- USENIX Security Symposium 2023: Distinguished Paper Award for "A Two-Decade Retrospective…"
- Llewellyn John and Harriet Manchester Quantrell Award for Excellence in Undergraduate Teaching (2021); awarded annually to between three and six faculty members across the University of Chicago
- NSF CAREER Award (2021)
- CHI 2021: Best Paper Honorable Mention for "Understanding Trigger-Action Programs…"
- CHI 2021: Best Paper Honorable Mention for "Understanding the Security and Privacy Advice…"
- PETS 2020 Best Reviewer Award
- 2020 Allen Newell Award for Research Excellence (Joint with L. Bauer, N. Christin, L. Cranor, S. Komanduri, M. Mazurek, W. Melicher, S. Segreti, and R. Shay)
- CHI 2020: Best Paper Honorable Mention for "Taking Data Out of Context to Hyper-Personalize Ads…"
- SOUPS 2019: Distinguished Poster Award for "What Was That Site Doing With My…"
- 2018 IEEE Cybersecurity Award for Practice (Joint with L. Bauer, N. Christin, L. Cranor, S. Komanduri, M. Mazurek, W. Melicher, S. Segreti, and R. Shay)
- 2018 ACM SIGCHI Outstanding Dissertation Award
- CHI 2017: Best Paper Award for "Design and Evaluation of a Data-Driven Password Meter"

- SOUPS 2017: Distinguished Poster Award for "Data-Driven Transparency About Online Tracking"
- USENIX Security Symposium 2016: Best Paper Award for "Fast, Lean, and Accurate…"
- Neubauer Family Assistant Professorship (Junior Chair) at the University of Chicago (awarded 2016)
- 2016 John Karat Usable Privacy and Security Student Research Award
- Computing Reviews 2016 Notable Books and Articles for "Designing Password Policies…"
- CHI 2016: Best Paper Honorable Mention for "Do Users' Perceptions…"
- SOUPS 2015: Distinguished Poster Award for "You Can Do Better…"
- UbiComp 2014: Best Paper Award for "Intruders Versus Intrusiveness…"
- 2014 DEF CON CMIYC password-cracking contest: 1st place (Team CMU) in non-professional division
- PSOSM 2013: Best Presentation Award
- "Smart, Useful…" Future of Privacy Forum 2012 *Privacy Papers for Policy Makers* leading paper
- "Why Johnny…" Future of Privacy Forum 2012 *Privacy Papers for Policy Makers* notable mention
- CHI 2012: Best Paper Honorable Mention for "Why Johnny Can't Opt Out…"
- Harvard Office for the Arts 2007 Louise Donovan Award ("Unsung Hero")

GRANTS AND FELLOWSHIPS

- 2022, Google Privacy Faculty Award for *Finding and Deleting Sets of Sensitive, Useless Files in Google Drive* [Total: $75,000] (Sole PI: **Blase Ur**)
- 2022, Meta / Facebook Privacy-Enhancing Technologies Research Award for *Improved Redaction Technologies for Data Sharing* [Total: $100,000] (Sole PI: **Blase Ur**)
- 5/1/22 – 4/30/26, National Science Foundation *Collaborative Research: SaTC: CORE: Medium: Methods and Tools for Effective, Auditable, and Interpretable Online Ad Transparency* [Total: $1,200,000; PI Ur's share: $314,522] (Lead PI: Damon McCoy, PIs: **Blase Ur**, Michelle Mazurek, Miriam Metzger)
- 7/1/22 – 6/30/24, National Science Foundation *EAGER: DCL: SaTC: Enabling Interdisciplinary Collaboration: Efficient Human-in-the-Loop Redaction of Language Development Corpora* [Total $299,992] (Lead PI: **Blase Ur**, PIs: Susan Goldin-Meadow, Marisa Casillas, Chenhao Tan)
- 4/1/21 – 3/31/26, National Science Foundation *CAREER: Usable, Data-Driven Transparency and Access for Consumer Privacy* [Total: $549,510] (Sole PI: **Blase Ur**)
- 9/1/20 – 8/31/22, National Science Foundation *EAGER: SaTC-EDU: Training Mid-Career Security Professionals in Machine Learning and Data-Driven Cybersecurity* [Total: $299,945; PI Ur's share: $99,981] (Lead PI: Nick Feamster. PIs: Yuxin Chen, **Blase Ur**)
- 1/1/20 – 12/31/20, National Science Foundation (in collaboration with Amazon) *FAI: Identifying, Measuring, and Mitigating Fairness Issues in AI* [Total: $345,000; PI Ur's share: $75,905] (Lead PI: Christopher Clifton. PIs: Murat Kantarcioglu, **Blase Ur**, Lindsay Weinberg, Christopher Yeomans)
- 11/1/18 – 10/31/21, National Science Foundation *Framework: Software: HDR Globus Automate: A Distributed Research Automation Platform* [Total: $2,000,000; PI Ur's share: TBD] (Lead PI: Ian Foster. PIs: Kyle Chard, **Blase Ur**)
- 9/1/18 – 8/31/22, National Science Foundation *FMitF: Collaborative Research: User-Centered Verification and Repair of Trigger-Action Programs* [Total: $999,998; PI Ur's share: $330,000] (Lead PI: **Blase Ur**. PIs: Shan Lu, Ravi Chugh, Michael Littman)
- 8/1/18 – 7/31/22, National Science Foundation *SaTC: CORE: Medium: Collaborative: Enabling Long-Term Security and Privacy through Retrospective Data Management* [Total: $1,216,000; PI Ur's share: $416,000] (Lead PI: Chris Kanich. PIs: **Blase Ur**, Elena Zheleva)
- 7/1/18 – 6/30/20, National Science Foundation *CRII: SaTC: Multi-User Authentication and Access Control in the Internet of Things* [$191,000] (Sole PI: **Blase Ur**)
- 2017, Mozilla Research Grant for *Communicating Privacy in Browsers* [$38,929] (PI: **Blase Ur**)
- 2017, UChicago CERES Center for Unstoppable Computing Funded Project *Creating Correct Trigger-Action Programs* [2 years of support for a Ph.D. student] (Sole PI: **Blase Ur**)
- 2015, Data Transparency Lab Grant *Providing Users Data-Driven Privacy Awareness* [€50,000] (PIs: Lorrie Faith Cranor and **Blase Ur**)
- 2015, Microsoft Research gift in support of IoT research with Michael Littman at Brown [$15,000]
- 2012 - 2015, NDSEG (National Defense Science & Engineering Graduate) Fellowship [Full tuition, fees, stipend, and health insurance for three years of graduate study]
- 2012, Yahoo! Key Scientific Challenges Award [$5,000]
- 2010 – 2011, U.S. Department of State Fulbright Scholarship to Hungary [9 months of full support]

Peer-Reviewed Conference Publications

Leona Lassak, Elleen Pan, **Blase Ur**, Maximilian Golla. Why Haven't Passkeys Replaced Passwords? Obstacles Companies Face Deploying FIDO2 Passwordless Authentication. In *Proceedings of the 33rd USENIX Security Symposium (**USENIX Security '24**)*, Philadelphia, PA, 2024.

Bailey Kacsmar, Vasisht Duddu, Kyle Tilbury, **Blase Ur**, Florian Kerschbaum. Comprehension from Chaos: Towards Informed Consent for Private Computation. In *Proceedings of the 30th ACM Conference on Computer and Communications Security (**CCS '23**)*, Copenhagen, Denmark, 2023.

Alexandra Nisenoff, Maximilian Golla, Miranda Wei, Juliette Hainline, Hayley Szymanek, Annika Braun, Annika Hildebrandt, Blair Christensen, David Langenberg, **Blase Ur**. A Two-Decade Retrospective Analysis of a University's Vulnerability to Attacks Exploiting Reused Passwords. In *Proceedings of the 32nd USENIX Security Symposium (**USENIX Security '23**)*, Anaheim, CA, 2023. **Distinguished Paper Award**.

Alexandra Nisenoff, Arthur Borem, Madison Pickering, Grant Nakanishi, Maya Thumpasery, **Blase Ur**. Defining "Broken": User Experiences and Remediation Tactics When Ad-Blocking or Tracking-Protection Tools Break a Website's User Experience. In *Proceedings of the 32nd USENIX Security Symposium (**USENIX Security '23**)*, Anaheim, CA, 2023.

Will Brackenbury, Kyle Chard, Aaron Elmore, **Blase Ur**. Summarizing Sets of Related ML-Driven Recommendations for Improving File Management in Cloud Storage. In *Proceedings of the 35th ACM Symposium on User Interface Software and Technology (**UIST '22**)*, Bend, OR, 2022.

Collins W. Munyendo, Philipp Markert, Alexandra Nisenoff, Miles Grant, Elena Korkes, **Blase Ur**, Adam J. Aviv. "The Same PIN, Just Longer": On the (In)Security of Upgrading PINs from 4 to 6 Digits. In *Proceedings of the 31st USENIX Security Symposium (**USENIX Security '22**)*, Boston, MA, 2022.

Jamar L. Sullivan Jr., Will Brackenbury, Andrew McNutt, Kevin Bryson, Kwam Byll, Yuxin Chen, Michael L. Littman, Chenhao Tan, **Blase Ur**. Explaining Why: How Instructions and User Interfaces Impact Annotator Rationales When Labeling Text Data. In *Proceedings of the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL '22**)*, Seattle, WA, 2022.

Will Brackenbury, Andrew McNutt, Kyle Chard, Aaron Elmore, **Blase Ur**. KondoCloud: Improving Information Management in Cloud Storage via Recommendations Based on File Similarity. In *Proceedings of the 34th ACM Symposium on User Interface Software and Technology (**UIST '21**)*, Online, 2021.

Weijia He, Valerie Zhao, Olivia Morkved, Sabeeka Siddiqui, Earlence Fernandes, Josiah Hester, **Blase Ur**. SoK: Context Sensing for Access Control in the Adversarial Home IoT. In *Proceedings of the 6th IEEE European Symposium on Security and Privacy (**EuroS&P '21**)*, ~~Vienna, Austria~~ Online, 2021.

Leona Lassak, Annika Hildebrandt, Maximilian Golla, **Blase Ur**. "It's Stored, Hopefully, on an Encrypted Server": Mitigating Users' Misconceptions About FIDO2 Biometric WebAuthn. In *Proceedings of the 30th USENIX Security Symposium (**USENIX Security '21**)*, ~~Vancouver, BC, Canada~~ Online, 2021.

Mohammad Taha Khan, Christopher Tran, Shubham Singh, Dimitri Vasilkov, Chris Kanich, **Blase Ur**, Elena Zheleva. Helping Users Automatically Find and Manage Sensitive, Expendable Files in Cloud Storage. In *Proceedings of the 30th USENIX Security Symposium (**USENIX Security '21**)*, ~~Vancouver, BC, Canada~~ Online, 2021.

Sophie Veys, Daniel Serrano, Madison Stamos, Margot Herman, Nathan Reitinger, Michelle L. Mazurek, **Blase Ur**. Pursuing Usable and Useful Data Downloads Under GDPR/CCPA Access Rights via Co-Design. In *Proceedings of the Seventeenth Symposium On Usable Privacy and Security (**SOUPS '21**)*, ~~Vancouver, BC, Canada~~ Online, 2021.

Kentrell Owens, Olabode Anise, Amanda Krauss, **Blase Ur**. User Perceptions of the Usability and Security of Smartphones as FIDO2 Roaming Authenticators. In *Proceedings of the Seventeenth Symposium On Usable Privacy and Security (**SOUPS '21**)*, ~~Vancouver, BC, Canada~~ Online, 2021.

Christian Stransky, Dominik Wermke, Johanna Schrader, Nicolas Huaman, Yasemin Acar, Anna Lena Fehlhaber, Miranda Wei, **Blase Ur**, Sascha Fahl. On the Limited Impact of Visualizing Encryption: Perceptions of E2E Messaging Security. In *Proceedings of the Seventeenth Symposium On Usable Privacy and Security (**SOUPS '21**)*, ~~Vancouver, BC, Canada~~ Online, 2021.

Will Brackenbury, Galen Harrison, Kyle Chard, Aaron Elmore, **Blase Ur**. Files of a Feather Flock Together? Measuring and Modeling How Users Perceive File Similarity in Cloud Storage. In *Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR '21**)*, Online, 2021.

Sophie Welber, Valerie Zhao, Claire Dolin, Olivia Morkved, Henry Hoffmann, **Blase Ur**. Do Users Have Contextual Preferences for Smartphone Power Management? In *Proceedings of the 29th Conference on User Modeling, Adaptation and Personalization (**UMAP '21**)*, ~~Utrecht, the Netherlands~~ Online, 2021.

Günce Su Yılmaz, Fiona Gasaway, **Blase Ur**, Mainack Mondal. Perceptions of Retrospective Edits, Changes, and Deletion on Social Media. In *Proceedings of the Fifteenth International AAAI Conference on Web and Social Media (**ICWSM '21**)*, ~~Venice, Italy~~ Online, 2021.

Maia J. Boyd, Jamar L. Sullivan Jr., Marshini Chetty, **Blase Ur**. Understanding the Security and Privacy Advice Given to Black Lives Matter Protesters. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '21**)*, ~~Yokohama, Japan~~ Online, 2021. **Honorable Mention for Best Paper**.

Valerie Zhao, Lefan Zhang, Bo Wang, Michael L. Littman, Shan Lu, **Blase Ur**. Understanding Trigger-Action Programs Through Novel Visualizations of Program Differences. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '21**)*, ~~Yokohama, Japan~~ Online, 2021. **Honorable Mention for Best Paper**.

Miranda Wei, Madison Stamos, Sophie Veys, Nathan Reitinger, Justin Goodman, Margot Herman, Dorota Filipczuk, Ben Weinshel, Michelle L. Mazurek, **Blase Ur**. What Twitter Knows: Characterizing Ad Targeting Practices, User Perceptions, and Ad Explanations Through Users' Own Twitter Data. In *Proceedings of the 29th USENIX Security Symposium (**USENIX Security '20**)*, ~~Boston, MA~~ Online, 2020.

Julia Hanson, Miranda Wei, Sophie Veys, Matthew Kugler, Lior Strahilevitz, **Blase Ur**. Taking Data Out of Context to Hyper-Personalize Ads: Crowdworkers' Privacy Perceptions and Decisions to Disclose Private Information. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '20**)*, ~~Honolulu, HI~~ Online, 2020. **Honorable Mention for Best Paper**.

Galen Harrison, Julia Hanson, Christine Jacinto, Julio Ramirez, **Blase Ur**. An Empirical Study on the Perceived Fairness of Realistic, Imperfect Machine Learning Models. In *Proceedings of the 2020 Conference on Fairness, Accountability, and Transparency (**FAT* '20**)*, Barcelona, Spain, 2020.

Ben Weinshel, Miranda Wei, Mainack Mondal, Euirim Choi, Shawn Shan, Claire Dolin, Michelle L. Mazurek, **Blase Ur**. Oh, the Places You've Been! User Reactions to Longitudinal Transparency About Third-Party Web Tracking and Inferencing. In *Proceedings of the 26th ACM Conference on Computer and Communications Security (**CCS '19**)*, London, UK, 2019.

Mainack Mondal, Günce Su Yılmaz, Noah Hirsch, Mohammad Taha Khan, Michael Tang, Christopher Tran, Chris Kanich, **Blase Ur**, Elena Zheleva. Moving Beyond Set-It-And-Forget-It Privacy Settings on Social Media. In *Proceedings of the 26th ACM Conference on Computer and Communications Security (**CCS '19**)*, London, UK, 2019.

Judah Newman, Bowen Wang, Valerie Zhao, Amy Zeng, Michael L. Littman, **Blase Ur**. Evidence Humans Provide When Explaining Data-Labeling Decisions. In *Proceedings of the 17th IFIP TC.13 International Conference on Human-Computer Interaction (**INTERACT '19**)*, Paphos, Cyprus, 2019.

Alex Liu, Amanda Nakanishi, Maximilian Golla, David Cash, **Blase Ur**. Reasoning Analytically About Password-Cracking Software. In *Proceedings of the 40th IEEE Symposium on Security and Privacy (**IEEE S&P '19**)*, San Francisco, CA, 2019.

Will Brackenbury, Abhimanyu Deora, Jillian Ritchey, Jason Vallee, Weijia He, Guan Wang, Michael L. Littman, **Blase Ur**. How Users Interpret Bugs in Trigger-Action Programming. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '19**)*, Glasgow, United Kingdom, 2019.

Lefan Zhang, Weijia He, Jesse Martinez, Noah Brackenbury, Shan Lu, **Blase Ur**. AutoTap: Synthesizing and Repairing Trigger-Action Programs Using LTL Properties. In *Proceedings of the 41st ACM/IEEE International Conference on Software Engineering (**ICSE '19**)*, Montreal, QC, Canada, 2019.

Maximilian Golla, Miranda Wei, Juliette Hainline, Lydia Filipe, Markus Dürmuth, Elissa M. Redmiles, **Blase Ur**. "What was that site doing with my Facebook password?" Designing Password-Reuse Notifications. In *Proceedings of the 25th ACM Conference on Computer and Communications Security (**CCS '18**)*, Toronto, ON, Canada, 2018.

Weijia He, Maximilian Golla, Roshni Padhi, Jordan Ofek, Markus Dürmuth, Earlence Fernandes, **Blase Ur**. Rethinking Access Control and Authentication for the Home Internet of Things (IoT). In *Proceedings of the 27th USENIX Security Symposium (**USENIX Security '18**)*, Baltimore, MD, 2018.

Claire Dolin, Ben Weinshel, Shawn Shan, Chang Min Hahn, Euirim Choi, Michelle L. Mazurek, **Blase Ur**. Unpacking Perceptions of Data-Driven Inferences Underlying Online Targeting and Personalization. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '18**)*, Montreal, QC, Canada, 2018.

Mohammad Taha Khan, Maria Hyun, Chris Kanich, **Blase Ur**. Forgotten But Not Gone: Identifying the Need for Longitudinal Data Management in Cloud Storage. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '18**)*, Montreal, QC, Canada, 2018.

Yuxi Wu, Panya Gupta, Miranda Wei, Yasemin Acar, Sascha Fahl, **Blase Ur**. Your Secrets Are Safe: How Browsers' Explanations Impact Misconceptions About Private Browsing Mode. In *Proceedings of the Web Conference (**WWW '18**)*, Lyon, France, 2018.

Yuan Tian, Nan Zhang, Yueh-Hsun Lin, Xiaofeng Wang, **Blase Ur**, Xianzheng Guo, Patrick Tague. SmartAuth: User-Centered Authorization for the Internet of Things. In *Proceedings of the 26th USENIX Security Symposium (**USENIX Security '17**)*, Vancouver, BC, Canada, 2017.

Sean M. Segreti, William Melicher, Saranga Komanduri, Darya Melicher, Richard Shay, **Blase Ur**, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Michelle L. Mazurek. Diversify to Survive: Making Passwords Stronger with Adaptive Policies. In *Proceedings of the Thirteenth Symposium On Usable Privacy and Security (**SOUPS '17**)*, Santa Clara, CA, 2017.

Blase Ur, Felicia Alfieri, Maung Aung, Lujo Bauer, Nicolas Christin, Jessica Colnago, Lorrie Faith Cranor, Henry Dixon, Pardis Emami Naeini, Hana Habib, Noah Johnson, William Melicher. Design and Evaluation of a Data-Driven Password Meter. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '17**)*, Denver, CO, 2017. **Best Paper Award**.

Joshua Tan, Lujo Bauer, Joseph Bonneau, Lorrie Faith Cranor, Jeremy Thomas, **Blase Ur**. Can Unicorns Help Users Compare Crypto Key Fingerprints? In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '17**)*, Denver, CO, 2017.

William Melicher, **Blase Ur**, Sean M. Segreti, Saranga Komanduri, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Fast, Lean, and Accurate: Modeling Password Guessability Using Neural Networks. In *Proceedings of the 25th USENIX Security Symposium (**USENIX Security '16**)*, Austin, TX, 2016. **Best Paper Award**.

Blase Ur, Jonathan Bees, Sean M. Segreti, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Do Users' Perceptions of Password Security Match Reality?. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '16**)*, San Jose, CA, 2016. **Honorable Mention for Best Paper**.

Blase Ur, Melwyn Pak Yong Ho, Stephen Brawner, Jiyun Lee, Sarah Mennicken, Noah Picard, Diane Schulze, Michael L. Littman. Trigger-Action Programming in the Wild: An Analysis of 200,000 IFTTT Recipes (Short paper). In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '16**)*, San Jose, CA, 2016.

William Melicher, Darya Kurilova, Sean M. Segreti, Pranshu Kalvani, Richard Shay, **Blase Ur**, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Michelle L. Mazurek. Usability and Security of Text Passwords on Mobile Devices. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '16**)*, San Jose, CA, 2016.

Blase Ur, Sean M. Segreti, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Saranga Komanduri, Darya Kurilova, Michelle L. Mazurek, William Melicher, Richard Shay. Measuring Real-World Accuracies and Biases in Modeling Password Guessability. In *Proceedings of the 24th USENIX Security Symposium (**USENIX Security '15**)*, Washington, DC, 2015.

Blase Ur, Fumiko Noma, Jonathan Bees, Sean M. Segreti, Richard Shay, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. "I Added '!' at the End to Make It Secure": Observing Password Creation in the Lab. In *Proceedings of the Eleventh Symposium On Usable Privacy and Security (**SOUPS '15**)*, Ottawa, Canada, 2015.

Richard Shay, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Alain Forget, Saranga Komanduri, Michelle L. Mazurek, William Melicher, Sean M. Segreti, **Blase Ur**. A Spoonful of Sugar? The Impact of Guidance and Feedback on Password-Creation Behavior. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '15**)*, Seoul, South Korea, 2015.

Blase Ur, Jaeyeon Jung, Stuart Schechter. Intruders Versus Intrusiveness: Teens' and Parents' Perspectives on Home-Entryway Surveillance. In *Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp '14**)*, Seattle, WA, 2014. **Best Paper Award**.

Lorrie Faith Cranor, Adam L. Durity, Abigail Marsh, **Blase Ur**. Parents' and Teens' Perspectives on Privacy In a Technology-Filled World. In *Proceedings of the Tenth Symposium On Usable Privacy and Security (**SOUPS '14**)*, Menlo Park, CA, 2014.

Blase Ur, Elyse McManus, Melwyn Pak Yong Ho, Michael L. Littman. Practical Trigger-Action Programming in the Smart Home. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '14**)*, Toronto, Canada, 2014.

Richard Shay, Saranga Komanduri, Adam L. Durity, Philip (Seyoung) Huh, Michelle L. Mazurek, Sean M. Segreti, **Blase Ur**, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Can Long Passwords be Secure and Usable? In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '14**)*, Toronto, Canada, 2014.

Michelle L. Mazurek, Saranga Komanduri, Timothy Vidas, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Patrick Gage Kelley, Richard Shay, **Blase Ur**. Measuring Password Guessability for an Entire University. In *Proceedings of the 20th ACM Conference on Computer and Communications Security (**CCS '13**)*, Berlin, Germany, 2013.

Pedro G. Leon, **Blase Ur**, Yang Wang, Manya Sleeper, Rebecca Balebako, Richard Shay, Lujo Bauer, Mihai Christodorescu, Lorrie Faith Cranor. What Matters to Users? Factors that Affect Users' Willingness to Share Information with Online Advertisers. In *Proceedings of the Ninth Symposium On Usable Privacy and Security (**SOUPS '13**)*, Newcastle, United Kingdom, 2013.

Manya Sleeper, Justin Cranshaw, Patrick Gage Kelley, **Blase Ur**, Alessandro Acquisti, Lorrie Faith Cranor, Norman Sadeh. "I read my Twitter the next morning and was astonished": A Conversational Perspective on Twitter Regrets. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '13**)*, Paris, France, 2013.

Blase Ur, Patrick Gage Kelley, Saranga Komanduri, Joel Lee, Michael Maass, Michelle Mazurek, Timothy Passaro, Richard Shay, Timothy Vidas, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. How Does Your Password Measure Up? The Effect of Strength Meters on Password Creation. In *Proceedings of the 21st USENIX Security Symposium (**USENIX Security '12**)*, Bellevue, WA, 2012.

Blase Ur, Pedro G. Leon, Lorrie Faith Cranor, Richard Shay, Yang Wang. Smart, Useful, Scary, Creepy: Perceptions of Online Behavioral Advertising. In *Proceedings of the Eight Symposium On Usable Privacy and Security (**SOUPS '12**)*, Washington, DC, 2012.

Richard Shay, Patrick Gage Kelley, Saranga Komanduri, Michelle L. Mazurek, **Blase Ur**, Timothy Vidas, Lujo Bauer, Nicholas Christin, Lorrie Faith Cranor. Correct Horse Battery Staple: Exploring the Usability of System-Assigned Passphrases. In *Proceedings of the Eight Symposium On Usable Privacy and Security (**SOUPS '12**)*, Washington, DC, 2012.

Pedro G. Leon, **Blase Ur**, Rebecca Balebako, Lorrie Faith Cranor, Richard Shay, Yang Wang. Why Johnny Can't Opt Out: A Usability Evaluation of Tools to Limit Online Behavioral Advertising. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '12**)*, Austin, TX, 2012. **Honorable Mention for Best Paper**.

Peter F. Klemperer, Yuan Liang, Michelle L. Mazurek, Manya Sleeper, **Blase Ur**, Lujo Bauer, Lorrie Faith Cranor, Nitin Gupta, Michael K. Reiter. Tag, You Can See It! Using Tags for Access Control in Photo Sharing. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '12**)*, Austin, TX, 2012.

Blase Ur and Yang Wang. Online Social Networks in a Post-Soviet State: How Hungarians Protect and Share on Facebook. In *Proceedings of iConference 2012 (**iConference '12**)*, Toronto, Canada, 2012.

Jordan Ash, Monica Babes, Gal Cohen, Sameen Jalal, Sam Lichtenberg, Michael Littman, Phillip Quiza, **Blase Ur**, Emily Zhang. Scratchable Devices: User-Friendly Programming for Household Appliances. In *HCI International (**HCII '11**)*, Orlando, FL, 2011.

PEER-REVIEWED JOURNAL PUBLICATIONS

Lefan Zhang, Cyrus Zhou, Michael L. Littman, **Blase Ur**, Shan Lu. Helping Users Debug Trigger-Action Programs. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT / UbiComp**)*, Volume 6, Number 4, Article 196, December 2022.

Natã M. Barbosa, Gang Wang, **Blase Ur**, Yang Wang. Who Am I? A Design Probe Exploring Real-Time Transparency About Online and Offline User Profiling Underlying Targeted Ads. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT / UbiComp**)*, Volume 5, Number 3, Article 88, September 2021.

Lefan Zhang, Weijia He, Olivia Morkved, Valerie Zhao, Michael L. Littman, Shan Lu, **Blase Ur**. Trace2TAP: Synthesizing Trigger-Action Programs From Traces of Behavior. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT / UbiComp**)*, Volume 4, Number 3, Article 104, September 2020.

Lorrie Faith Cranor, Pedro Giovanni Leon, **Blase Ur**. A Large-Scale Evaluation of U.S. Financial Institutions' Standardized Privacy Notices. *ACM Transactions on the Web (**TWEB**)*, Volume 10, Number 3, Article 17, 2016.

Richard Shay, Saranga Komanduri, Adam L. Durity, Philip (Seyoung) Huh, Michelle L. Mazurek, Sean M. Segreti, **Blase Ur**, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Designing Password Policies for Strength and Usability. *ACM Transactions on Information and System Security (**TISSEC**)*, Volume 18, Number 4, Article 13, 2016.

Blase Ur, Manya Sleeper, Lorrie Faith Cranor. {Privacy, Privacidad, Приватност} Policies in Social Media: Providing Translated Privacy Notice. ***I/S**: A Journal of Law and Policy for the Information Society*, Volume 9, Number 2, 2013.

Saranga Komanduri, Richard Shay, Greg Norcie, **Blase Ur**, Lorrie Faith Cranor. AdChoices? Compliance with Online Behavioral Advertising Notice and Choice Requirements. ***I/S**: A Journal of Law and Policy for the Information Society*, Volume 7, Number 3, 2012.

PEER-REVIEWED WORKSHOP PUBLICATIONS

Nathan Reitinger, Bruce Wen, Michelle Mazurek, **Blase Ur**. Analysis of Google Ads Settings Over Time: Updated, Individualized, Accurate, and Filtered. In *Proceedings of the 22nd Workshop on Privacy in the Electronic Society (**WPES '23**)*, Copenhagen, Denmark, 2023.

Omer Akgul, Ruba Abu-Salma, Wei Bai, Elissa M. Redmiles, Michelle L. Mazurek, **Blase Ur**. From Secure to Military-Grade: Exploring the Effect of App Descriptions on User Perceptions of Secure Messaging. In *Proceedings of the 20th Workshop on Privacy in the Electronic Society (**WPES '21**)*, ~~Seoul, South Korea~~ Online, 2021.

Kentrell Owens, **Blase Ur**, Olabode Anise. A Framework For Evaluating the Usability and Security of Smartphones as FIDO2 Roaming Authenticators. In *Proceedings of Who Are You?! Adventures in Authentication (**WAY '20**)*, ~~Boston, MA~~ Online, 2020.

Sophie Veys, Madison Stamos, Nathan Reitinger, Michelle L. Mazurek, **Blase Ur**. Toward Usable Data Access Under GDPR/CCPA. In *Proceedings of the Workshop on Technology and Consumer Protection (**ConPro '20**)*, ~~San Francisco, CA~~ Online, 2020.

Weijia He, Jesse Martinez, Roshni Padhi, Lefan Zhang, **Blase Ur**. When Smart Devices Are Stupid: Negative Experiences Using Home Smart Devices. In *Proceedings of the IEEE Workshop on the Internet of Safe Things (**SafeThings '19**)*, San Francisco, CA, 2019.

Galen Harrison, Julia Hanson, **Blase Ur**. Towards Considering and Documenting Algorithmic Fairness in the Data Science Workflow. In *Proceedings of the Workshop on Technology and Consumer Protection (**ConPro '19**)*, San Francisco, CA, 2019.

Miranda Wei, Maximilian Golla, **Blase Ur**. The Password Doesn't Fall Far: How Service Influences Password Choice. In *Proceedings of Who Are You?! Adventures in Authentication (**WAY '18**)*, Baltimore, MD, 2018.

Ruba Abu-Salma, Elissa M. Redmiles, **Blase Ur**, Miranda Wei. Exploring User Mental Models of End-to-End Encrypted Communication Tools. In *Proceedings of the 8th USENIX Workshop on Free and Open Communications on the Internet (**FOCI '18**)*, Baltimore, MD, 2018.

Weijia He, Juliette Hainline, Roshni Padhi, **Blase Ur**. Clap On, Clap Off: Usability of Authentication Methods in the Smart Home. In *Proceedings of the Interactive Workshop on the Human Aspect of Smarthome Security and Privacy (**WSSP '18**)*, Baltimore, MD, 2018.

Will Brackenbury, Rui Liu, Mainack Mondal, Aaron Elmore, **Blase Ur**, Kyle Chard, Michael J. Franklin. Draining the Data Swamp: A Similarity-based Approach. In *Proceedings of the Workshop on Human-In-the-Loop Data Analytics (**HILDA '18**)*, Houston, TX, 2018.

Hana Habib, Jessica Colnago, William Melicher, **Blase Ur**, Sean M. Segreti, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Password Creation in the Presence of Blacklists. In *Proceedings of the NDSS Workshop on Usable Security (**USEC '17**)*, San Diego, CA, 2017.

Florian Schaub, Aditya Marella, Pranshu Kalvani, **Blase Ur**, Chao Pan, Emily Forney, Lorrie Faith Cranor. Watching Them Watching Me: Browser Extensions' Impact on User Privacy Awareness and Concern. In *Proceedings of the NDSS Workshop on Usable Security (**USEC '16**)*, San Diego, CA, 2016.

Yuan Tian, Bin Liu, Weisi Dai, **Blase Ur**, Patrick Tague, and Lorrie Faith Cranor. Supporting Privacy-Conscious App Update Decisions with User Reviews. In *Proceedings of the 5th Annual ACM CCS Workshop on Security and Privacy in Smartphones and Mobile Devices (**SPSM '15**)*, Denver, CO, 2015.

Chandrasekhar Bhagavatula, **Blase Ur**, Kevin Iacovino, Su Mon Kywe, Lorrie Faith Cranor, Marios Savvides. Biometric Authentication on iPhone and Android: Usability, Perceptions, and Influences on Adoption. In *Proceedings of the NDSS Workshop on Usable Security (**USEC '15**)*, San Diego, CA, 2015.

Lujo Bauer, Lorrie Faith Cranor, Saranga Komanduri, Michelle L. Mazurek, Michael K. Reiter, Manya Sleeper, **Blase Ur**. The Post Anachronism: The Temporal Dimension of Facebook Privacy. In *Proceedings of the 12th Workshop on Privacy in the Electronic Society (**WPES '13**)*, Berlin, Germany, 2013.

Blase Ur, Jaeyeon Jung, Stuart Schechter. The Current State of Access Control for Smart Devices in Homes. In *Workshop on Home Usable Privacy and Security (**HUPS '13**)*, Newcastle, United Kingdom, 2013.

Lorrie Faith Cranor, Kelly Idouchi, Pedro Giovanni Leon, Manya Sleeper, **Blase Ur**. Are They Actually Any Different? Comparing Thousands of Financial Institutions' Privacy Practices. In *Workshop on the Economics of Information Security (**WEIS '13**)*, Washington, DC, 2013.

Blase Ur and Yang Wang. A Cross-Cultural Framework for Protecting User Privacy in Online Social Media. In *Proceedings of the WWW Workshop on Privacy and Security in Online Social Media (**PSOSM '13**)*, Rio de Janeiro, Brazil, 2013.

Pedro G. Leon, Justin Cranshaw, Lorrie Faith Cranor, Jim Graves, Manoj Hastak, **Blase Ur**, Guzi Xu. What Do Online Behavioral Advertising Disclosures Communicate to Users? In *Proceedings of the 11th Workshop on Privacy in the Electronic Society (**WPES '12**)*, Raleigh, NC, 2012.

Rebecca Balebako, Pedro Leon, Richard Shay, **Blase Ur**, Lorrie Faith Cranor. Measuring the Effectiveness of Privacy Tools for Limiting Behavioral Advertising. In *Web 2.0 Security and Privacy (**W2SP '12**)*, San Francisco, CA, 2012.

Blase Ur, Manya Sleeper, Lorrie Faith Cranor. {Privacy, Privacidad, Приватност} Policies in Social Media: Providing Translated Privacy Notice. In *Proceedings of the WWW Workshop on Privacy and Security in Online Social Media (**PSOSM '12**)*, Lyon, France, 2012.

Blase Ur and Vinod Ganapathy. Evaluating Attack Amplification in Online Social Networks. In *Web 2.0 Security and Privacy (**W2SP '09**)*, Oakland, CA, 2009.

THESES

Blase Ur. Supporting Password-Security Decisions with Data. Carnegie Mellon University, Ph.D. Dissertation, CMU-ISR-16-110, 2016. **2018 SIGCHI Outstanding Dissertation Award**.

Blase Ur. Privacy in Social Networking: A Usability Study of Privacy Interfaces for Facebook. Harvard University Undergraduate Honors Thesis, 2007.

BOOK CHAPTERS

Lorrie Faith Cranor, **Blase Ur**. Chapter 5: Tracking and Surveillance. In *Introduction to IT Privacy: A Handbook for Technologists (Second Edition)* (Travis Breaux, Executive Editor). IAPP, 2020.

Lorrie Faith Cranor, Manya Sleeper, **Blase Ur**. Chapter 5: Tracking and Surveillance. In *Introduction to IT Privacy: A Handbook for Technologists* (Travis Breaux, Executive Editor). IAPP, 2014.

POSTERS

Emma I. C. Peterson, Valerie Zhao, Dan Byrne, **Blase Ur**. MARI: Semi-Automated, Human-in-the-Loop Redaction of Text Corpora (Poster). In *Nineteenth Symposium On Usable Privacy and Security (**SOUPS '23**)*, Anaheim, CA, 2023.

Leona Lassak, Annika Hildebrandt, Maximilian Golla, **Blase Ur**. "It's Stored, Hopefully, on an Encrypted Server": Mitigating Users' Misconceptions About FIDO2 Biometric WebAuthn (Poster). In *Eighteenth Symposium On Usable Privacy and Security (**SOUPS '22**)*, Boston, MA, 2022.

Valerie Zhao, Michael L. Littman, Shan Lu, Sarah Sebo, **Blase Ur**. Supporting End Users in Defining Reinforcement-Learning Problems for Human-Robot Interactions. In *Extended Abstracts of the Fifth Multidisciplinary Conference on Reinforcement Learning and Decision Making (**RLDM '22**)*, Providence, RI, 2022.

Valerie Zhao, Lefan Zhang, Bo Wang, Shan Lu, **Blase Ur**. Visualizing Differences to Improve End-User Understanding of Trigger-Action Programs. In *Extended Abstracts of the ACM SIGCHI Conference on Human Factors in Computing Systems (**CHI '20**)*, ~~Honolulu, HI~~ Online, 2020.

Miranda Wei, Maximilian Golla, Juliette Hainline, Lydia Filipe, Markus Dürmuth, Elissa M. Redmiles, **Blase Ur**. "What was that site doing with my Facebook password?" Designing Password-Reuse Notifications (Poster). *Fifteenth Symposium On Usable Privacy and Security (**SOUPS '19**)*, Santa Clara, CA, 2019. **Distinguished Poster Award**

Noah Hirsch, Chris Kanich, Mohammad Taha Khan, Xuefeng Liu, Mainack Mondal, Michael Tang, Christopher Tran, **Blase Ur**, William Wang, Günce Su Yilmaz, Elena Zheleva. Making Retrospective Data Management Usable (Poster). *Fourteenth Symposium On Usable Privacy and Security (**SOUPS '18**)*, Baltimore, MD, 2018.

Claire Dolin, Ben Weinshel, Shawn Shan, Chang Min Hahn, Euirim Choi, Michelle L. Mazurek, **Blase Ur**. Unpacking Privacy Perceptions of Data-Driven Inferences for Online Targeting and Personalization (Poster). ***FTC PrivacyCon '18***, Washington, DC, 2018.

Euirim Choi, Claire Dolin, Aaron Goldman, Chang Min Hahn, Shawn Shan, Ben Weinshel, Michelle L. Mazurek, **Blase Ur**. Data-Driven Transparency About Online Tracking (Poster). *Thirteenth Symposium On Usable Privacy and Security (**SOUPS '17**)*, Santa Clara, CA, 2017. **Distinguished Poster Award**

Amanda Aizuss, Max Chen, Galen Harrison, Sotiri Komissopoulos, **Blase Ur**. Poking at the Cloud: Identifying Factors Behind Selective Cloud Uploading (Poster). *Thirteenth Symposium On Usable Privacy and Security (**SOUPS '17**)*, Santa Clara, CA, 2017.

David Eargle, John Godfrey, Hsin Miao, Scott Stevenson, Richard Shay, **Blase Ur**, Lorrie Faith Cranor. You Can Do Better – Motivational Statements in Password-Meter Feedback (Poster). *Eleventh Symposium On Usable Privacy and Security (**SOUPS '15**)*, Ottawa, Canada, 2015. **Distinguished Poster Award**

Shing-hon Lau, Stephen Siena, Ashutosh Pandey, Sroaj Sosothikul, Lorrie Faith Cranor, **Blase Ur**, Richard Shay. Exploring the Usability of Pronounceable Passwords (Poster). *Tenth Symposium On Usable Privacy and Security (**SOUPS '14**)*, Menlo Park, CA, 2014.

Aditya Marella, Chao Pan, Ziwei Hu, Florian Schaub, **Blase Ur**, Lorrie Faith Cranor. Assessing Privacy Awareness from Browser Plugins (Poster). *Tenth Symposium On Usable Privacy and Security (**SOUPS '14**)*, Menlo Park, CA, 2014.

Yuan Tian, Bin Liu, Weisi Dai, Lorrie Faith Cranor, **Blase Ur**. Study on Users' Attitudes and Behaviors Toward Android Application Update Notification (Poster). *Tenth Symposium On Usable Privacy and Security (**SOUPS '14**)*, Menlo Park, CA, 2014.

Chandrasekhar Bhagavatula, Kevin Iacovino, Su Mon Kywe, Lorrie Faith Cranor, **Blase Ur**. Usability Analysis of Biometric Authentication Systems on Mobile Phones (Poster). *Tenth Symposium On Usable Privacy and Security (**SOUPS '14**)*, Menlo Park, CA, 2014.

Blase Ur, Saranga Komanduri, Richard Shay, Stephanos Matsumoto, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Patrick Gage Kelley, Michelle L. Mazurek, Timothy Vidas. The Art of Password Creation (Poster). *IEEE Symposium on Security & Privacy '13 (**S&P '13**)*, San Francisco, CA, 2013.

Jordan Ash, Monica Babes, Gal Cohen, Sameen Jalal, Michael Littman, Luis Piloto, Phillip Quiza, **Blase Ur**. Scratchable Devices (Poster). ***Scratch@MIT***, 2010.

Position Papers and Magazine Articles

Mainack Mondal, Zhou Jin, Tamara Babaian, Xinru Page, **Blase Ur**. Using Long-Lived Facebook Accounts to Understand Implicit Norms of Consent in Contextual Integrity. *Symposium on Applications of Contextual Integrity*, 2019.

Mainack Mondal, **Blase Ur**. Enforcing Contextual Integrity With Exposure Control. *Symposium on Applications of Contextual Integrity*, 2018.

William Melicher, **Blase Ur**, Sean M. Segreti, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor. Better Passwords Through Science (And Neural Networks). *USENIX ;login:* 42:4, Winter 2017.

Blase Ur. Position Paper: The Heterogeneous, Evolving Smart Home: Friend or Foe? *CHI Smart For Life Workshop on Designing Smart Home Technologies that Evolve with Users*, Seoul, South Korea, 2015.

Blase Ur. Position Paper: Maintaining Privacy when Big Data Comes Home. *CSCW Workshop on The Future of Networked Privacy: Challenges and Opportunities*, Vancouver, BC, Canada, 2015.

Blase Ur, Patrick Gage Kelley, Saranga Komanduri, Joel Lee, Michael Maass, Michelle L. Mazurek, Timothy Passaro, Richard Shay, Timothy Vidas, Lujo Bauer, Nicolas Christin, Lorrie Faith Cranor, Serge Egelman, Julio López. Helping Users Create Better Passwords. *USENIX ;login:* 37:7, December 2012.

Rebecca Balebako, Pedro G. Leon, **Blase Ur**. Position Paper for W3C DNT Workshop. *W3C Workshop: Do Not Track and Beyond*, Berkeley, CA, 2012.

Invited Talks

- UIUC, 11/2022: "Improving Privacy Transparency for Targeted Advertising"
- Max Planck Institute for Security and Privacy, Symposium on Human and Societal Aspects in Computing, 10/2022, "Characterizing Ad Targeting Through Users' Own Data and the Resultant Lessons for Data Access Rights"
- Carnegie Mellon University Cylab Seminar, 10/2022, "Characterizing Ad Targeting Through Users' Own Data and the Resultant Lessons for Data Access Rights"
- Brigham Young University, 9/2022, Salt Lake City, UT: "User-Centered Security and Control in the Home IoT"
- UChicago Computational Social Science Workshop, 1/2022, Chicago, IL: "Subject Data Access Rights: Measurements of and Targeting Practices and Lessons for Future Transparency Mechanisms"
- Eleventh International Conference on Security, Privacy and Applied Cryptographic Engineering (SPACE '21), 12/2021: Invited tutorial "Introduction to Authentication Research and Practice"
- US Federal Trade Commission (FTC), 9/2021: "Characterizing Ad Targeting Practices Through Users' Own Twitter Data and the Resultant Lessons for Data Access Rights"
- UIUC, 3/2020: "User-Centered Security and Control in the Home IoT"
- PasswordsCon, 11/2019, Stockholm, Sweden: "Reasoning Analytically About Password-Cracking Software"
- Karlsruhe Institute of Technology, 6/2019, Karlsruhe, Germany: "Reasoning Analytically About Password-Cracking Software"
- Mozilla, 5/2019: "User Reactions to Longitudinal Transparency About Third-Party Web Tracking and Inferencing"
- Dropbox, 5/2019: "Identifying the Need for Longitudinal Data Management in Cloud Storage"
- RSA conference, 3/2019: "Rethinking Access Control and Authentication for the Home IoT"
- IoT Midwest Research Summit, 10/2018, Champaign, IL: "Usable Access Control, Privacy, and Programmability for the Home IoT"
- 2nd SecHuman Summer School, 9/2018, Ruhr University, Bochum, Germany: "Data-Driven Methods for Improving Passwords and Making Online Tracking Transparent"
- IEEE S&P Workshop on Technology and Consumer Protection (ConPro '18), 5/2018, San Francisco, CA: "Utilizing Data to Help Users Make Online Privacy Decisions"
- DePaul University, 5/2018: "Helping Users Make Better Passwords Through Data-Driven Methods"
- CHI 2018, 4/2018, Montreal, QC, Canada: "Supporting Password-Security Decisions with Data"
- Keynote address at Computer Security Symposium, 10/2017, Yamagata, Japan: "Helping Users Make Better Passwords Through Data-Driven Methods"
- UIUC, 10/2017: "Helping Users Make Better Passwords Through Data-Driven Methods"
- Keynote address at Who Are You?! Adventures in Authentication Workshop (WAY 2017): "Helping Users Make Better Passwords Through Data-Driven Methods"
- Greater Chicago Area Systems Research Workshop, 04/2017, Chicago, IL: "Data-Driven Methods for Helping Users Make Better Security and Privacy Decisions"
- Data Transparency Lab, 11/2015, Boston, MA: "Providing Users Data-Driven Privacy Awareness"
- Passwords15, 8/2015, Las Vegas, NV: "Towards Standardizing...Password Guessability"
- CMU Privacy Seminar, 11/2014, Pittsburgh, PA: "Privacy in Smart Homes"
- Passwords14, 8/2014, Las Vegas, NV: "The Continuing Quest for Secure and Usable Passwords"
- CMU Green Computing course, April 2014, Pittsburgh, PA: "Programming and Privacy in Smart Homes"
- Brown University, 4/2014, Providence, Rhode Island: "Practical Trigger-Action Programming..."
- Brown University, 2/2013, Providence, Rhode Island: "Helping Users Create Better Passwords"
- W3C Do Not Track and Beyond Workshop, 11/2012, Berkeley, California. Panelist on "User Studies"

Selected Media Coverage and Policy Impact

- Selected Mass Media: Chicago Tonight TV Show on WTTW/PBS (11/3/21, 5/4/21, 4/23/20, 11/5/19, 7/31/19, 12/17/18, 4/11/18), Slate (11/26/18), CNET (8/14/18), Consumer Reports (6/19/18), Yahoo News (6/19/18), The Register (4/24/18), Science News (4/24/18), Washington Post (9/8/17), Tech Re-

public (5/18/17), Vice Motherboard (5/13/16), Nature (5/11/16), New Scientist (11/25/15), USA Today (8/31/15), Pittsburgh Post-Gazette (6/14/15), Forbes (4/21/15), TechXplore (4/3/14), ACM Tech News (3/25/14), Ars Technica (11/8/13), Forbes (10/17/13), MIT Technology Review Blog (4/4/12), PC World (3/29/12), USA Today (12/29/11), Consumer Reports (10/31/11), Wall Street Journal Blog (10/31/11), ZDNet (10/17/11), New York Times (10/15/11)
- Public policy citations: FTC "Protecting Consumer Privacy in an Era of Rapid Change" report (3/26/12), Alessandro Acquisti's testimony to the U.S. House of Representatives (10/13/11)

Teaching Experience

- University of Chicago, **Spring 2023**, CMSC 25910, **Engineering for Ethics, Privacy, and Fairness in Computer Systems** *(Instructor; 34 students)*
- University of Chicago, **Winter 2023**, CMSC 23200 / CMSC 33250, **Introduction to Computer Security** *(Co-instructor with David Cash; 113 students)*
- University of Chicago, **Autumn 2022**, CMSC 23218 / CMSC 33218, **Surveillance Aesthetics: Provocations About Privacy and Security in the Digital Age** *(Instructor; 10 students; met jointly with an SAIC course of 4 additional students taught by Douglas Pancoast)*
- University of Chicago, **Spring 2022**, CMSC 25910, **Engineering for Ethics, Privacy, and Fairness in Computer Systems** *(Instructor; 35 students)*
- University of Chicago, **Winter 2022**, CMSC 23200 / CMSC 33250, **Introduction to Computer Security** *(Co-instructor with David Cash; 109 students)*
- University of Chicago, **Autumn 2021**, CMSC 23218 / CMSC 33218, **Surveillance Aesthetics: Provocations About Privacy and Security in the Digital Age** *(Instructor; 14 students; met jointly with an SAIC course of 12 additional students taught by Douglas Pancoast)*
- University of Chicago, **Spring 2021**, CMSC 25900-1, **Ethics, Fairness, Responsibility, and Privacy in Data Science** *(Instructor; 24 students)*
- University of Chicago, **Winter 2021**, CMSC 23200 / CMSC 33250, **Introduction to Computer Security** *(Co-instructor with David Cash; 86 students)*
- University of Chicago, **Autumn 2020**, CMSC 33251-1, **Topics in Computer Security: Tracking, Surveillance, and Inferences** *(Instructor; 12 students)*
- University of Chicago, **Spring 2020**, CMSC 25900-1, **Ethics, Fairness, Responsibility, and Privacy in Data Science** *(Co-instructor with Raul Castro Fernandez; 37 students)*
- University of Chicago, **Winter 2020**, CMSC 23200 / CMSC 33250, **Introduction to Computer Security** *(Co-instructor with David Cash; 63 students)*
- University of Chicago, **Autumn 2019**, CMSC 33251-1, **Topics in Computer Security: Tracking, Surveillance, and Inferences** *(Instructor; 5 students)*
- University of Chicago, **Spring 2019**, CMSC 23210 / CMSC 33210, **Usable Security and Privacy** *(Instructor; 52 students)*
- University of Chicago, **Winter 2019**, CMSC 33251-1, **Topics in Computer Security: Data-Driven Security and Privacy** *(Instructor; 4 students)*
- University of Chicago, **Autumn 2018**, CMSC 12100, **Computer Science with Applications 1** *(Instructor; 52 students)*
- University of Chicago, **Autumn 2018**, CMSC 23200 / CMSC 33250, **Introduction to Computer Security** *(Co-instructor with David Cash and Ben Zhao; 63 students)*
- University of Chicago, **Spring 2018**, CMSC 23210 / CMSC 33210, **Usable Security and Privacy** *(Instructor; 55 students)*
- University of Chicago, **Winter 2018**, CMSC 33251-1, **Topics in Computer Security: Data-Driven Security and Privacy** *(Instructor; 20 students)*
- University of Chicago, **Autumn 2017**, CMSC 12100, **Computer Science with Applications 1** *(Instructor; 55 students)*
- University of Chicago, **Spring 2017**, CMSC 23210 / CMSC 33210, **Usable Security and Privacy** *(Instructor; 50 students)*
- Carnegie Mellon University, **Spring 2015**, 05-436 / 05-836 / 08-534 / 08-734, **Usable Privacy and Security** *(Teaching Assistant / Co-instructor with Lorrie Cranor; approximately 30 students)*
- Carnegie Mellon University, **Spring 2015**, 18-732, **Secure Software Systems** *(Teaching Assistant; approximately 60 students))*

- Carnegie Mellon University, **Spring 2014**, 05-436 / 05-836 / 08-534 / 08-734, **Usable Privacy and Security** *(Teaching Assistant / Co-instructor with Lorrie Cranor; approximately 30 students))*
- Rutgers University, **Summer III 2010**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; approximately 20 students))*
- Rutgers University, **Summer I 2010**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; approximately 20 students))*
- Rutgers University, **Spring 2010**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; approximately 350 students)*
- Rutgers University, **Fall 2009**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; 507 students)*
- Rutgers University, **Spring 2009**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; 345 students)*
- Rutgers University, **Fall 2008**, 14:440:127, **Introduction to Computers for Engineers** *(Instructor; 512 students))*

VOLUNTEER SERVICE

University of Chicago, Chicago, IL **July 2021, July 2022**

- In 2022, taught "Artificial Intelligence: The Good, The Bad, The Biased, and the Privacy-Invasive" and "Hacking 101," which met twelves times for 90 minutes each. The courses were conducted as part of UChicago's Collegiate Scholars Program (CSP) to prepare high achieving, underrepresented students in Chicago Public Schools for highly selective colleges.
- In 2021, taught "Artificial Intelligence: The Good, The Bad, The Biased, and the Privacy-Invasive" for 25 outstanding high school students. The course met eight times for 90 minutes each, and it was again conducted as part of UChicago's Collegiate Scholars Program (CSP).

Carnegie Mellon University, Pittsburgh, PA **September 2011 – August 2016**

- Taught "Computational Thinking" and "Computer Security" for up to twenty middle school students at the Pittsburgh Science & Technology Academy twice weekly.
- Frequently presented at local high schools as part of the Women@SCS Roadshow program.
- Advised 4 MS students (Felicia Alfieri, Adam Durity, Fumiko Noma, Yiming Zong), 7 undergrads (Benjamin Alderoty, Maung Aung, Amrith Deepak, Harold Dixon, Kelly Idouchi, Noah Johnson, Rupal Nahar), and 6 high school students (Jonathan Bees, Shane Cranor, Brett Hubbard, Ashwin Srinivasan, John Tran, Jerome Williams).

American Corner (U.S. Department of State), Debrecen, Hungary **September 2010 – May 2011**

- Presented careers in technology, women in science, and American culture at high schools across Hungary.

Harvard Radcliffe Dramatic Club, Cambridge, MA **September 2003 – June 2007**
President (2006) and Technical Liaison (2004, 2005)

- Led one of Harvard's largest student organizations, involving 800 students in 50 yearly productions.
- Founded "Tech Week" workshops, the Visiting Light Designer Project, and Production Photo Archive.
- Served as light/sound/set designer, technical director, or master rigger on over 50 dramatic productions.

PROGRAM COMMITTEES AND CONFERENCE REVIEWING

- USENIX Security Symposium (USENIX Security '24, USENIX Security '23, USENIX Security '22, USENIX Security '21, USENIX Security '20, USENIX Security '17)
- ACM Conference on Computer and Communications Security (CCS '23, CCS '22, CCS '21, CCS '20, CCS '19, CCS '18, CCS '17)
- Symposium on Usable Privacy and Security (SOUPS '23, SOUPS '22, SOUPS '21, SOUPS '20, SOUPS '19, SOUPS '18, SOUPS '17)
- IEEE Symposium on Security and Privacy (S&P '24, S&P '21, S&P '20)
- ACM CHI Conference on Human Factors in Computing Systems (CHI '24, CHI '23, CHI '22, CHI '21, CHI '20, CHI '18)
- Privacy Enhancing Technologies Symposium / PoPETs (PETS '23 senior PC, PETS '22 senior PC,

PETS '20, PETS '19)
- Network and Distributed System Security Symposium (NDSS '20)
- World Wide Web Conference (WWW '20, WWW '18, WWW '17)
- IEEE European Symposium on Security and Privacy (EuroS&P '18, EuroS&P '17)
- ACM Asia Conference on Computer and Communications Security (AsiaCCS '18)
- Usable Security Mini Conference (USEC '19, USEC '18, USEC '17)
- USENIX Workshop on Free and Open Communications on the Internet (FOCI '21, FOCI '19)
- Workshop on Privacy in the Electronic Society (WPES '17)
- ACM Workshop on the Internet of Safe Things (SafeThings '19, SafeThings '18, SafeThings '17)
- European Workshop on Usable Security (EuroUSEC '17, EuroUSEC '16)
- International Workshop on Privacy Engineering (IWPE '16)
- Who Are You?! Adventures in Authentication Workshop (WAY '16)
- External reviewer for the following conferences: ACM CCS (2014); CHI (2013, 2014, 2015, 2016, 2017, 2019); CSCW (2018); CSF (2016); INTERACT (2015); MobileHCI (2016); NDSS (2015, 2016); SOUPS (2014, 2015, 2016); UbiComp (2014, 2015); UIST (2018)

JOURNAL REVIEWING

- Associate Editor, ACM TOCHI: Transactions on Computer-Human Interaction (2021–present)
- External reviewer for the following journals: CACM (2017); Computers and Security (2015, 2016); i-Com (2019); IEEE Pervasive Computing (2015); IMWUT/UbiComp (2017, 2018, 2019, 2020); Information Systems Research (2015, 2016); TDSC (2013, 2014, 2018); TIFS (2014, 2015); TISSEC/TOPS (2016, 2017, 2019, 2020); TOCHI (2016, 2017, 2018, 2019); TOIT (2017)

CONFERENCE & WORKSHOP ORGANIZATION

- Co-chair: USENIX PEPR 2023 (The 2023 Conference on Privacy Engineering Practice and Respect), USENIX PEPR 2022 (The 2022 Conference on Privacy Engineering Practice and Respect)
- Co-chair: Symposium on the Applications of Contextual Integrity (2021, 2020)
- Co-chair: EuroUSEC 2020 (5th European Workshop on Usable Security), EuroUSEC 2019 (4th European Workshop on Usable Security)
- Chair: 7th Midwest Security Workshop (2019)
- Organizing Committee: 8th Midwest Security Workshop (2020), 6th Midwest Security Workshop (2018)
- Karat Award Committee Chair: SOUPS 2022
- Lightning Talks Co-Chair: SOUPS 2021, SOUPS 2020
- Co-organizer: SOUPS 2016 tutorial ("Introduction to Password Cracking and Research on Passwords")

SKILLS

- Programming: C++, Java, JavaScript, Lisp, Matlab, Perl, PHP, Processing, Python, Web (HTML5/CSS)
- Languages: English (native), Hungarian, Spanish
- Applications: LaTeX, Multitrack Audio (Cakewalk Sonar), Audio Editing (Sony Sound Forge, Audacity), Photo Editing (Photoshop), Video Editing (Shotcut)
- Skills: Electric & Upright Bass, Guitar, Hammered Dulcimer, Drums, Photography, Carpentry, Theatrical Light/Sound/Set Design