

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	
EMPLOYMENT	University of Chicago , Chicago, IL <i>Neubauer Family Assistant Professor of Computer Science</i>	January 2017 – present
	Carnegie Mellon University , Pittsburgh, PA <i>Ph.D. Student</i>	July 2011 – August 2016
	Microsoft Research , Redmond, WA <i>Research Intern</i>	May 2013 – August 2013
	Rutgers University School of Engineering , New Brunswick, NJ <i>Program Development Specialist, Senior Project Coordinator</i>	August 2007 – August 2010
EDUCATION	Carnegie Mellon University (School of Computer Science) , Pittsburgh, PA Ph.D. in Societal Computing, 2016 M.S. in Computation, Organizations, and Society, 2014 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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• 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, Scary, Creepy...” was selected as one of eight leading papers in the Future of Privacy Forum’s 2012 <i>Privacy Papers for Policy Makers</i>• “Why Johnny Can’t Opt Out...” was selected as one of four notable mentions in the Future of Privacy Forum’s 2012 <i>Privacy Papers for Policy Makers</i>	

- 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

- 11/1/18 – 10/31/21, NSF Framework: Software: HDR Globus Automate: A Distributed Research Automation Platform [Total: \$2,000,000; PI Ur’s share: TBD] (PIs: Ian Foster, Kyle Chard, Blase Ur)
- 9/1/18 – 8/31/22, NSF FMITF: Collaborative Research: User-Centered Verification and Repair of Trigger-Action Programs [Total: \$999,998; PI Ur’s share: \$330,000] (PIs: Blase Ur, Shan Lu, Ravi Chugh, Michael Littman)
- 8/1/18 – 7/31/22, NSF SaTC: CORE: Medium: Collaborative: Enabling Long-Term Security and Privacy through Retrospective Data Management [Total: \$1,216,000; PI Ur’s share: \$416,000] (PIs: Blase Ur, Chris Kanich, Elena Zheleva)
- 7/1/18 – 6/30/20, NSF CRII: SaTC: Multi-User Authentication and Access Control in the Internet of Things [\$191,000] (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 to investigate “Creating Correct Trigger-Action Programs” [3 terms of support for a Ph.D. student] (PI: Blase Ur)
- 2015, Data Transparency Lab Grant to investigate “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]
- 2011 and 2012, Honorable Mentions for NSF Graduate Research Fellowship
- 2010 – 2011, U.S. Department of State Fulbright Scholarship to Hungary [9 months of full support]

PEER-REVIEWED CONFERENCE PUBLICATIONS

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**. 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, Earlene Fernandes, **Blase Ur**. Rethinking Authentication and Access Control 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

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. *IIS: 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. *IIS: A Journal of Law and Policy for the Information Society*, Volume 7, Number 3, 2012.

PEER-REVIEWED
WORKSHOP
PUBLICATIONS

Miranda Wei, Maximilian Golla, **Blase Ur**. The Password Doesn't Fall Far: How Service Influences Password Choice. In *Who Are You?! Adventures in Authentication 2018 (WAY 2018)*, 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 *8th USENIX Workshop on Free and Open Communications on the Internet (FOCI 2018)*, 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 2018)*, 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 2018)*, 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 2017 (USEC 2017)*, 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 2016 (USEC 2016)*, 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 2015)*, 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 2015 (USEC 2015)*, 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 ACM Workshop on Privacy in the Electronic Society (WPES 2013)*, 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 2013)*, 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 2013)*, 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 2013)*, 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 ACM Workshop on Privacy in the Electronic Society (WPES 2012)*, 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 2012)*, San Francisco, CA, 2012.

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

Blase Ur and Vinod Ganapathy. Evaluating Attack Amplification in Online Social Networks. In *Web 2.0 Security and Privacy (W2SP 2009)*, 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, Manya Sleeper, **Blase Ur**. Chapter 5: Tracking and Surveillance. In *Introduction to IT Privacy: A Handbook for Technologists* (Travis Breaux, Executive Editor). IAPP, 2014.

POSITION PAPERS AND MAGAZINE ARTICLES

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.

POSTERS

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*, 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.

INVITED
TALKS

- 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
- UIUC, 10/2017, “Helping Users Make Better Passwords Through Data-Driven Methods”
- Keynote address at Who Are You?! Adventures in Authentication Workshop (WAY 2017)
- 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 (12/17/18), Slate (11/26/18), Consumer Reports (6/19/18), Yahoo News (6/19/18), The Register (4/24/18), Science News (4/24/18), Chicago Tonight (4/11/18), Washington Post (9/8/17), Tech Republic (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)

SELECTED
TEACHING
EXPERIENCE

University of Chicago, Chicago, IL

Spring 2017, Spring 2018

Instructor for Usable Security and Privacy (CMSC 23210 / CMSC 33210)

- I introduced a new class on usable security, which I cross-listed at both the undergraduate and undergraduate levels. In Spring 2017, a total of 50 students took the class (40 at the undergraduate level and 10 at the graduate level), and there were 13 project groups. One of these project groups presented a poster on their research at SOUPS 2017. I supervised a staff of 3 teaching assistants, gave all lectures, and wrote all assignments for the course.

University of Chicago, Chicago, IL

Autumn 2018

Co-Instructor for Introduction to Computer Security (CMSC 23200 / CMSC 33250)

- Along with David Cash and Ben Zhao, co-taught the introduction to computer security course, which was cross-listed at the undergraduate and graduate levels and enrolled 63 students.

University of Chicago, Chicago, IL **Winter 2018, Winter 2019**
Instructor for Topics in Computer Security: Data-Driven Security and Privacy (CMSC 33251-1)

- Introduced a graduate seminar on data's role within security and privacy. These topics included tracking technologies, how machine learning is used to make decisions related to security and privacy, anomaly detection, and the use of measurement studies in security and privacy. The course enrolled 20 students.

University of Chicago, Chicago, IL **Autumn 2017, Autumn 2018**
Instructor for Computer Science with Applications (CMSC 12100)

- Taught one section of an introductory course on computational thinking and programming in Python intended for non-majors.

Carnegie Mellon University, Pittsburgh, PA **Spring 2014, Spring 2015**
Teaching Assistant / Co-Instructor for Usable Privacy and Security (05-436 / 05-836 / 08-534 / 08-734)

- I was TA and co-instructor for "Usable Privacy and Security." Lorrie Cranor and I split the lectures for the course, which covers experimental design and security/privacy technologies. I mentored half of the group research projects and also wrote/graded assignments. I also co-wrote the syllabus and reading list.
- Sample student evaluations (Spring 2014):
The instructor was interested in student learning. 4.45 / 5 (CMU mean: 4.13)
Lectures or discussions were clearly organized. 4.30 / 5 (CMU mean: 4.01)
Lectures or recitations helped you better understand the course material. 4.10 / 5 (CMU mean: 3.99)
- Sample free-text student evaluations: "Blase was fun and engaging. He clearly cares about the subject, and was able to spread his passion." "Excellent at leading in class discussions."

Carnegie Mellon University, Pittsburgh, PA **Spring 2015**
Teaching Assistant for Secure Software Systems course

- I was TA for Secure Software Systems, which covers attacks (buffer overflows, SQL injection, XSS), yet focuses on defenses for making software systems secure. These defenses include architectural solutions (e.g., trusted computing), language-based security (e.g., type systems and proof-carrying code), software analysis (e.g., static analysis, model checking), and run-time analysis (e.g., dynamic taint tracking).
- Two other TAs and I wrote and graded the assignments and exams, in addition to assisting students at office hours. I also gave a guest lecture on bounded model checking.
- Sample student evaluations (Spring 2015):
Teaching Assistant was knowledgeable about subject matter. 4.68 / 5 (CMU mean: 4.37)
Given the choice, I would work with this Teaching Assistant again. 4.64 / 5 (CMU mean: 4.18)
Teaching Assistant was engaging. 4.60 / 5 (CMU mean: 4.25)
- Sample free-text student evaluations: "Overall, he's very dedicated to teaching, and he's one of the best TAs I ever met. After 2 semesters, I have had 16 TAs, and Blase would tie to #1 with only 2 others." "Blase is a great lecturer." "Blase is really knowledgeable and can articulate complex concepts with ease."

Rutgers University, New Brunswick, New Jersey **September 2008 - August 2010**
Lecturer

- Developed all course materials, supervised staff of TAs, and gave all lectures for 14:440:127, "Introduction to Computers for Engineers." The course introduced programming in the Matlab language, data analysis, and numerical methods. It was required for all engineering students; cumulative enrollment exceeded 1,700 students across 6 sessions (Fall '08/'09, Spring '09/'10, Summer I '10, Summer III '10).
- Example Instructor Ratings (Spring 2009):
I rate the teaching effectiveness of the instructor as: 4.24 / 5 (Rutgers undergraduate mean: 3.79)
The instructor responded effectively to student comments and questions: 4.47 / 5 (Rutgers mean: 4.09)

VOLUNTEER
SERVICE

Carnegie Mellon University, Pittsburgh, PA **September 2011 – August 2016**
• Taught "Computational Thinking" and "Computer Security" for up to 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

- ACM Conference on Computer and Communications Security (CCS '19, CCS '18, CCS '17)
- USENIX Security Symposium (USENIX Security '17)
- Symposium on Usable Privacy and Security (SOUPS '19, SOUPS '18, SOUPS '17)
- Privacy Enhancing Technologies Symposium (PETS '19)
- ACM CHI Conference on Human Factors in Computing Systems (CHI '18)
- World Wide Web Conference (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 '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)

ADDITIONAL
PROFESSIONAL
SERVICE

- Co-chair: EuroUSEC 2019 (4th European Workshop on Usable Security)
- Organizing Committee: 7th Midwest Security Workshop (2019), 6th Midwest Security Workshop (2018)
- Co-organizer: SOUPS 2016 tutorial ("Introduction to Password Cracking and Research on Passwords")
- 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/IMWUT (2014, 2015, 2017, 2018); UIST (2018)
- External reviewer for the following journals: CACM (2017); Computers and Security (2015, 2016); IEEE Pervasive Computing (2015); Information Systems Research (2015, 2016); TDSC (2013, 2014, 2018); TIFS (2014, 2015); TISSEC/TOPS (2016, 2017); TOCHI (2016, 2017, 2018); TOIT (2017)

SKILLS AND
CERTIFICATIONS

- Certifications: IAPP Certified Information Privacy Technologist (CIPT)
- Programming: C++, Java, Lisp, Matlab, Perl, PHP, Processing, Python, Web (HTML5/CSS, Javascript)
- Languages: English (native), Hungarian, Spanish
- Applications: L^AT_EX, Multitrack Audio (Cakewalk Sonar, Sony Sound Forge), Photoshop, Video Editing
- Skills: Electric & Upright Bass, Guitar, Hammered Dulcimer, Drums, Photography, Carpentry, Theatrical Light/Sound/Set Design

REFERENCES

- Lujo Bauer (Carnegie Mellon University); Lorrie Faith Cranor (Carnegie Mellon University); Michael Littman (Brown University); Michael Reiter (University of North Carolina, Chapel Hill)