

# PATRICK GAGE KELLEY

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@patrickgage

My research centers on privacy, visualization, media, and the influence of technology on culture. I direct EXIT. I have worked on projects related to passwords, location-sharing, privacy policies, mobile apps, Twitter, Facebook relationship grouping, and the use of standardized, user-friendly privacy displays.

## EDUCATION

2013 Carnegie Mellon  
2010 University

Doctor of Science in Computation, Organizations & Society  
Masters of Science in Computation, Organizations & Society

2006 Rochester Institute  
2006 of Technology

Bachelor of Science in Computer Engineering  
Bachelor of Science in Creative Writing and Literature

## EMPLOYMENT

University of  
New Mexico

Assistant Professor of Computer Science  
School of Engineering

2006–2012 Carnegie Mellon  
University

I received my PhD from Carnegie Mellon University working with the Mobile Commerce Lab and the CyLab Usable Privacy and Security (CUPS) Lab.

2011 Intel Labs Seattle /  
University of  
Washington

I interned at Intel Labs Seattle with Sunny Consolvo (ILS) and David Wetherall (UW) working on the UI/UX of several privacy related applications, including: a sleep sensing project, a browser privacy plugin, and a project explaining mobile application permissions to users.

2008–2012 Wombat Security  
Technologies

My research at Carnegie Mellon contributed to the creation of the startup company Wombat Security Technologies. I have continued to work as consultant for Wombat, assisting in future development of anti-phishing tools, educational materials, and website design and maintenance.

2004–2005 National Security  
Agency

*Knowledge Discovery Sciences Office*  
Development work on a tool for separating a document's content from extraneous formatting, part of a larger project for automatic semantic document clustering based on content.

*Laboratory for Physical Sciences at University of Maryland*  
Planned a controller update for a Scanning Tunneling Microscope; redesigned, updated, and maintained content of the group's website; and studied Quantum Computing and Quantum Information Science.

## TEACHING

University of New Mexico	Fall 2013	Computer Programming Fundamentals	CS 152
	Spring, Fall 2013	Social and Ethical Issues in Computing	CS 293
	Fall 2012	Intermediate Programming	CS 251
Carnegie Mellon University	Spring 2012	Special Topics in Interactive Art and Computational Design <i>Teaching Assistant for Golan Levin</i>	
	Spring 2012	College News: The Process to the Press <i>Student-led course developed and taught with Greg Hanneman</i>	
	Spring 2010	Special Topics in Interactive Art and Computational Design <i>Teaching Assistant for Golan Levin</i>	
	Spring 2009	Mobile and Pervasive Computing Services <i>Teaching Assistant for Gregory Kesden and Norman Sadeh</i>	
	Fall 2008	Privacy Policy, Law, and Technology <i>Teaching Assistant for Lorrie Faith Cranor</i>	
Rochester Inst. of Tech.	Spring 2004	City as Text: Rochester <i>Co-taught and developed with Dr. Jessica Lieberman</i>	

## RESEARCH AWARDS

“A Investigation into Facebook Friend Grouping.” Honorable Mention for Best Student Paper at INTERACT 2011 in Lisbon, Portugal.

“A “Nutrition Label” for Privacy” 1st Place, ACM Grand Finals Graduate Student Research Competition. 2010.

Our 2010 Standardizing Privacy Notices paper was selected for inclusion in the Privacy Papers for Policy Makers, Future of Privacy Forum publication.

“Designing A Privacy Label.” 1st Place, ACM SIGCHI Student Research Competition. 2009.

“Designing A Privacy Label.” Honorable Mention, NYU-poly Computer Security Awareness Week - Research Competition. 2009.

“Mitsubishi Electronic Research Lab Sensor Exploration.” With Danny Rashid. Honorary Award, IEEE InfoVis Contest. 2008.

## CONFERENCE & JOURNAL PUBLICATIONS

- 2013
- 1 Kelley, P.G., Cranor, L.F., Sadeh, N. "Privacy as Part of the App Decision-Making Process." CHI 2013.
  - 2 Sleeper, M., Cranshaw, J., Kelley, P.G., Ur, B., Acquiti, A., Cranor, L.F., Sadeh, N. "I read my Twitter the next morning and was astonished: A conversational perspective on Twitter regrets." CHI 2013.
- 2012
- 3 Ur, B., Kelley, P.G., Komanduri, S., Lee, J., Maass, M., Mazurek, M.L., Passaro, T., Shay, R., Vidas, T., Bauer, L., Christin, N., and Cranor, L.F. "How does your password measure up? The effect of strength meters on password creation." USENIX 2012.
  - 4 Shay, R., Kelley, P.G., Komanduri, S., Mazurek, M.L., Ur, B., Vidas, T., Bauer, L., Christin, N., and Cranor, L.F. "Correct horse battery staple: Exploring the usability of system-assigned passphrases." SOUPS 2012.
  - 5 Kelley, P.G., Komanduri, S., Mazurek, M.L., Shay, R., Ur, B., Vidas, T., Bauer, L., Christin, N., and Cranor, L.F. "Guess again (and again and again): Measuring password strength by simulating password-cracking algorithms." IEEE Security & Privacy 2012.
- 2011
- 6 Kelley, P.G., Brewer, R., Mayer, Y., Cranor, L.F., and Sadeh, N. "An Investigation into Facebook Friend Grouping." INTERACT 2011.
  - 7 Komanduri, S., Shay, R., Kelley, P.G., Mazurek, M.L., Bauer, L., Christin, N., and Cranor, L.F. "Of Passwords and People: Measuring the Effect of Password- Composition Policies." CHI 2011.
  - 8 Kelley, P.G., Benisch, M., Cranor, L.F., and Sadeh, N. "When Are Users Comfortable Sharing Locations with Advertisers?" CHI 2011.
- 2010
- 9 Benisch, M., Kelley, P.G., Sadeh, N., and Cranor, L.F. Capturing location-privacy preferences: quantifying accuracy and user-burden tradeoffs. PUC 2010.
  - 10 Shay, R., Komanduri, S., Kelley, P.G., Leon, P.G., Mazurek, M.L., Bauer, L., Christin, N., Cranor, L.F., and Egelman, S. "Encountering Stronger Password Requirements: User Attitudes and Behaviors." SOUPS 2010.
  - 11 Toch, E., Cranshaw, J., Hankes Drielsma, P., Tsai, J.Y., Kelley, P.G., Cranor, L., Hong, J., and Sadeh, N. "Empirical Models of Privacy in Location Sharing." UBICOMP 2010.
  - 12 Tsai, J., Kelley, P.G., Cranor, L.F., and Sadeh, N. "Location-Sharing Technologies: Privacy Risks and Controls." I/S 2010.

CONFERENCE & JOURNAL PUBLICATIONS (cont.)

- 2010 13 Kelley, P.G., Cesca, L.J., Bresee, J., and Cranor, L.F.  
“Standardizing Privacy Notices: An Online Study of the  
Nutrition Label Approach.” CHI 2010.
- 2009 14 McDonald, A., Reeder, R., Kelley, P.G., and Cranor, L.F. “A  
Comparative Study of Online Privacy Policies and Formats.”  
PETS 2009.
- 15 Kelley, P.G., Bresee, J., Reeder, R., and Cranor, L.F. “Design of A  
Privacy Label.” SOUPS 2009.
- 16 Tsai, J., Kelley, P.G., Hankes Drielsma, P., Cranor, L.F., Hong, J.,  
and Sadeh, N. “Who’s Viewed You? The Impact of Feedback in a  
Mobile-location System.” Computer Human Interaction  
(CHI) 2009.
- 17 Ravichandran, R., Benisch, M., Kelley, P.G., and Sadeh, N.  
“Capturing Social Networking Privacy Preferences: Can Default  
Policies Help Alleviate Tradeoffs between Expressiveness and  
User Burden?” PETS 2009.
- 18 Sadeh, N., Hong, J., Cranor, L., Fette, I., Kelley, P.G., Prabaker,  
M., and Rao, J. “Understanding and Capturing People’s Privacy  
Policies in a People Finder Application”, Privacy Usability  
Journal. Vol. 13, No. 6, August 2009.
- 2007 19 DeBartolo, E., Bailey, M., Zaczek, M., Schriefer, T., Kelley,  
P.G., Ramaswamy, M., and Ryczko, N. “Traveling Engineering  
Activity Kits - Energy and the Environment.” ASEE Conference,  
Honolulu, 2007.

*Science and technology multiply around us. To an increasing  
extent they dictate the languages in which we speak and think.  
Either we use those languages, or we remain mute.  
–J.G. Ballard*

*last updated July 2013*

## WORKSHOP & MAGAZINE PUBLICATIONS

- 2013 1 Kelley, P.G., Sleeper, M., and Cranshaw, J. Conducting Research on Twitter: A Call for Guidelines and Metrics. CSCW Measuring Networked Social Privacy Workshop 2013.
- 2012 2 Ur, B., Kelley, P.G., Komanduri, S., Lee, J., Maass, M., Mazurek, M.L., Passaro, T., Shay, R., Vidas, T., Bauer, L., Christin, N., Cranor, L.F., Egelman, S., and Lopez, J. Helping Users Create Better Passwords. ;login: Vol 37, No. 6, December 2012.
- 3 Kelley, P.G., Consolvo, S., Cranor, L.F., Jung, J., Sadeh, N., Wetherall, D. "A Conundrum of Permissions: Installing Applications on an Android Smartphone." USEC FC 2012.
- 2011 4 Sadeh, N., and Kelley, P.G. "User-Controllable Location Privacy" PriMo 2011.
- 5 Kelley, P.G., Tsai, J., Cranor, L.F., and Sadeh, N. "Location-Sharing Technologies: Privacy Risks and Controls." PriMo 2011.
- 6 Wang, X.S., Choffnes, D., Kelley, P.G., Greenstein, B., and Wetherall, D. "Measuring and Predicting Web Login Safety." W-MUST 2011
- 7 Kay, M., Choe, E.K., Shepherd, J., Greenstein, B., Consolvo, S., Kelley, P.G., and Kientz, J. "Lullaby: environmental sensing for sleep self-improvement" Workshop on Personal Informatics, CHI 2011.
- 8 Kelley, P.G., Cesca, L.J., Bresee, J., and Cranor, L.F. "Intentional Privacy Policy Design" CHI Workshop on Networked Privacy 2011.
- 9 Balebako, R., Leon, P., Almuhimedi, H., Kelley, P.G., Mughan, J., Acquisti, A., Cranor, L.F., and Sadeh, N. "Nudging Users Towards Privacy on Mobile Devices" CHI PINC 2011.
- 2010 10 Kelley, P.G. "Conducting Usable Privacy & Security Studies with Amazon's Mechanical Turk." USER 2010
- 11 B. Meeder, J. Tam, P.G. Kelley, and L.F. Cranor. "RT @ IWantPrivacy: Widespread Violation of Privacy Settings in the Twitter Social Network" W2SP 2010.
- 2009 12 Tsai, J., Kelley, P.G., and Cranor, L.F. "The Risk and Benefit Perceptions of Location-Sharing Technologies." TPRC 2009.
- 2008 13 Kelley, P.G., Hankes Drielsma, P., Sadeh, N., and Cranor L. "User Controllable Learning of Security and Privacy Policies." AISec 2008.

## WORKSHOP & MAGAZINE PUBLICATIONS (cont.)

- 2008 14 Reeder R.W., Kelley, P.G., McDonald, A.M., and Cranor, L.F. "A User Study of the Expandable Grid Applied to P3P Policy Visualization." Workshop on Privacy in the Electronic Society (WPES). 2008.
- 2007 15 Prabaker, M., Rao, J., Fette, I., Kelley, P.G., Cranor, L., Hong, J., and Sadeh, N. "Understanding and Capturing People's Privacy Policies in a People Finder Application." Ubicomp Workshop on Privacy, Austria, 2007.

## SELECTED TECHNICAL REPORTS

- 1 Kelley, P.G., Komanduri, S., Mazurek, M.L., Shay, R., Vidas, T., Bauer, L., Christin, N., Cranor, L.F. "Guess again (and again and again): Measuring password strength by simulating password-cracking algorithms." CMU-CyLab-11-008, October 2011.
- 2 Kelley, P.G., Benisch, M., Sadeh, N., and Cranor, L.F. "When are Users Comfortable Sharing Locations with Advertisers?" CMU Tech Report: CMU-CyLab-10-017, October 2010.
- 3 Benisch, M., Kelley, P.G., Sadeh, N., and Cranor, L.F. "Capturing Location-Privacy Preferences: Quantifying Accuracy and User-Burden Tradeoffs" CMU Tech Report: CMU-ISR-10-105, March 2010.
- 4 Kelley, P.G., Cesca, L., Bresee, J., Cranor, L.F. "Standardizing Privacy Notices: An Online Study of the Nutrition Label Approach." CyLab Tech Report: CMU- CyLab-09-014, November 2009.
- 5 Benisch, M., Kelley, P.G., Sadeh, N., Sandholm, T., Cranor, L., Hankes Drielsma, P., and Tsai, J. "The Impact of Expressiveness on the Effectiveness of Privacy Mechanisms for Location Sharing." CMU Tech Report: CMU-ISR-08-141, December 2008.

## ACADEMIC SERVICE

Reviewing SOUPS, CHI, UBICOMP, CSCW, ToCHI, ICIS

Program PSOSM 2013  
Committees

University of Undergraduate Curriculum Committee  
New Mexico Faculty Search 2013  
Farris Engineering Center Master Planning Committee

ACTIVITIES, ORGANIZATIONS & LEADERSHIP

2013	ACM SIGCHI	<i>Adjunct Chair for Social Media + Brand</i>
2006–2012	The Tartan	<i>Publisher, Chief Executive Officer, Editorial Board, Senior Staffwriter, Ombudsman, Executive Committee</i> I was appointed to the Editorial Board in 2007. In 2011 I was elected as Publisher of the organization, continuing my work to reform the constitution, create an executive committee, launch an advisory board, update our advertising/business procedures.
2009–2011	National Association of Graduate and Professional Students	<i>Director of Communications</i> Led efforts in re-branding, social media, and design. NAGPS works to advocate and support graduate students nationally and locally– through best practices, lobbying, and regional and national conferences.
2008–2009	Graduate Student Assembly	<i>President</i> Elected for two terms as GSA President, representing and leading the legislative arm of student government supporting CMU's five thousand graduate students. Focused on improving communication, through orientation events, increased representation, and better committee reporting.
2009–2011	IMPAQT	<i>Ambassador to Qatar, Director of Marketing</i> Selected to travel to Carnegie Mellon's Doha, Qatar campus as a member of a ten-student group to develop programs and projects to more tightly bind CMU.
2007–2009	Dossier	<i>Editor-in-Chief</i> Dossier, CMU's Art & Literary Magazine, ceased publication in 2002. With Kristen Lukiewski, re-launched in 2007, as a full-color magazine of student art.
2004–2007	Society of Women Engineers	<i>Collegiate Leadership Publicity Manager and Leadership Coach</i> Became the first male student to sit on a National SWE Committee. Presented at two national conferences in support of the Student Leadership Committee.
2002–2005	RIT Honors Program	<i>Secretary &amp; Constitutional/Steering Committee Chair</i> I chaired the Constitutional Committee, that designed the foundation of the Honors Program Student Government. Chaired three other committees and also served as an officer on the Honors Executive Council.
2002–2005	RIT Leadership Institute	<i>Mentor and Advisory Board</i> I served as an active member of the RLI Advisory Board, helping to further refine its certification program and served as a mentor at the quarterly retreats.
2004–2006	Reporter Magazine	<i>Online Editor &amp; Staffwriter</i>
2004	Signatures Magazine	<i>Literary Editor</i>