

Patrick Gage Kelley

PROFILE

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Patrick Gage Kelley is seriously enjoying academia, however summer gives him a chance to explore. He believes people should actively contribute to their environments. He is rarely satisfied.

RESEARCH INTERESTS

5551 Beacon Avenue
Pittsburgh, PA 15217

Currently, Information Design, specifically geared towards educating users about privacy: on websites, in user preferences, on social networks, through log and audit data, and with regards to suggested changes to policies.

EDUCATION

Carnegie Mellon University - Pittsburgh, Pennsylvania

Ph.D. in Computation, Organizations & Society - School of Computer Science

Rochester Institute of Technology - Rochester, New York

B.S. Computer Engineering & B.S. Creative Writing and Literature - 2006

Honors Scholarship :: Presidential Scholarship :: Nathaniel Rochester Scholar

EXPERIENCE

Intel Labs Seattle/University of Washington CSE Spring 2011

In the spring of 2011 I interned at Intel Labs Seattle with Sunny Consolvo (ILS) and David Weatherall (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.

Wombat Security Technologies 2008–Present

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.

National Security Agency 2004–2005 *cleared TS//SI*

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.

RESEARCH AWARDS

“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.

PUBLISHED PAPERS

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.

Kelley, P.G., Benisch, M., Cranor, L.F., and Sadeh, N. “When Are Users Comfortable Sharing Locations with Advertisers?” CHI 2011.

Benisch, M., Kelley, P.G., Sadeh, N., and Cranor, L.F. Capturing location-privacy preferences: quantifying accuracy and user-burden tradeoffs. PUC 2010.

Kelley, P.G. “Conducting Usable Privacy & Security Studies with Amazon’s Mechanical Turk.” *USER* 2010

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.

Toch, E., Cranshaw, J., Hankes Drielsma, P., Tsai, J.Y., Kelley, P.G., Cranor, L., Hong, J., Sadeh, N. “Empirical Models of Privacy in Location Sharing.” UBICOMP 2010.

(continued...)

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
–JG Ballard

PUBLISHED PAPERS *(continued...)*

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.

Tsai, J., Kelley, P.G., Cranor, L.F., and Sadeh, N. "Location-Sharing Technologies: Privacy Risks and Controls." I/S 2010 (forthcoming).

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.

Tsai, J., Kelley, P.G., and Cranor, L.F. "The Risk and Benefit Perceptions of Location-Sharing Technologies." TPRC 2009.

McDonald, A., Reeder, R., Kelley, P.G., and Cranor, L.F. "A Comparative Study of Online Privacy Policies and Formats." PETS 2009.

Kelley, P.G., Bresee, J., Reeder, R., and Cranor, L.F. "Design of A Privacy Label." SOUPS 2009.

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.

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.

Kelley, P.G., Hankes Drielsma, P., Sadeh, N., and Cranor L. "User Controllable Learning of Security and Privacy Policies." *Workshop on Security and Artificial Intelligence (AISec)* 2008.

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.

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.

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.

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.

ACTIVITIES, ORGANIZATIONS & LEADERSHIP

Natl. Assoc. of Graduate-Professional Students –*Director of Communications*
Elected Director of Communications in 2010, for continued work with NAGPS.
Re-elected in 2011 to continue efforts in re-branding, social media, and design.

IMPAQT –*Ambassador to Qatar, Director of Marketing*

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.

Graduate Student Assembly –*President*

Elected for two terms (2008-09) as GSA President. Focused on improving communication, through orientation events, increased representation, and better committee reporting.

Dec5 –*Editor of The Guide to Living in Pittsburgh*

In 2007 I started the initiative to revitalize *The Guide to Living in Pittsburgh*, a CMU Computer Science publication for over twenty-five years.

Dossier –*Editor-in-Chief*

Dossier, CMU's Art & Literary Magazine, ceased publication in 2002. Working with Kristen Lukiewski, we began again in spring of 2007, switching to a semesterly magazine format to showcase student work.

The Tartan Newspaper –*Editorial Board & Senior Staffwriter*

I continued my journalistic work at Carnegie Mellon, with their newspaper *The Tartan*. I became a staffwriter, and was appointed to the Editorial Board in 2007.

Society for Women Engineers

–*National Collegiate Leadership Publicity Manager and Leadership Coach*

Became the first male student to sit on a National SWE Committee. Presented at two national conferences in support of the Student Leadership Committee.

RIT Honors Program –*Secretary & Constitutional/Steering Committee Chair*

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.

RIT Leadership Institute (formerly LEAD) –*Mentor and Advisory Board*

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.

Reporter Magazine –*Online Editor & Staffwriter*

Signatures Magazine –*Literary Editor, 2004*

TECHNICAL REPORTS

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.

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.

Benisch, M., Kelley, P.G., Sadeh, N., Sandholm, T., Cranor, L., Hanks, 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.

INVITED PRESENTATIONS & PANELS

"New Research Tools: Crowdsourcing and Cloud Computing." SOUPS, Seattle, WA. 2010.

"Research Showcase Highlights." *Computers, Freedom, and Privacy*. Washington D.C. 2009.

"Designing Facebook Applications with Privacy." Social Web (Hong & Kraut), Pittsburgh, PA. 2008.

"Preparing the Agile Cyberdefender." *Air Force Strategy Session*, Arlington, VA May 2008.

With A. Ray and E. Graeff. "Veni, Vidi, Wiki?," *Scholarship @ RIT*, 2005.

"Learning Leadership Styles" *SWE National Conference*. Anaheim, CA. 2005.

"Developing a Succession Plan," and "Managing Student Government," *National Collegiate Honors Conference (NCHC)*, New Orleans, LA. 2004.

"Rochester, City as Text," and "Developing a Student Constitution." *NCHC*, Chicago, IL. 2005.

"Leadership as Exploration" *SWE National Conference*, Birmingham, AL. 2003.

RESEARCH POSTERS

McDonald, A., Reeder, R., Kelley, P.G., and Cranor, L. "A Comparative Study of Online Privacy Policies and Formats." *Computers, Freedom & Privacy (CFP)* 2009.

Kelley, P.G., Bresee, J., Reeder, R., and Cranor, L. "Design of A Privacy Label." *Computers, Freedom & Privacy (CFP)* 2009.

Tsai, J., Kelley, P.G., Hankes Drielsma, P., Cranor, L., Hong, J., and Sadeh, N. "Who's Viewed You? The Impact of Feedback in a Mobile-location System." *Computers, Freedom & Privacy (CFP)* 2009.

Kelley, P.G., Won, S.S., and Cranor, L.F. "P3P Expandable Grids." *Privacy Mindswap, Center for Computational Thinking, Pittsburgh, PA.* Oct. 2007.

Fette, I., Kelley, P.G., Tomasic, A., and Sadeh, N. "Detecting Phishing Emails Through Machine Learning." *APWG e-Crime Researchers Summit*, Oct. 2007.

COMPUTER LANGUAGES

PHP :: MySQL :: x/html :: CSS

Java :: Processing :: Python :: Perl :: Ruby

EXPERIENCE CONTINUED

National Security Agency 2004–2005 *cleared TS//SI*

System Engineering and Project Management

Development work on a project tasked to monitor an incoming data system. Created a system with a CGI web-interface for Python base-code. Created documentation of security plans/presentations and website for the branch.

Special Projects Mentor at RIT 2003–2004

Designed the first Honors Program Yearbook.

Developed the Ambassador Program for outreach.

Worked with the director on future planning.

Honors & LEAD Mentor at RIT 2002–2003

Designed a yearly overnight retreat for winter quarter.

Focused programming on journaling, reflection.

Generated involvement in the Student Advisory Board.

Research Assistant, Computer Engineering at RIT 2002

Led the development of MIST (the Meta Image Software Toolkit) in collaboration with Kodak.