

Jason I. Hong

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Research Interests

In the near future, our smart devices will know almost everything about us. How can we make use of all of this rich sensor data to improve our lives? How can we foster an ecosystem for privacy and security? In my research, I draw on ideas and methods from human-computer interaction, systems, behavioral sciences, and machine learning.

Most of my current work centers on smartphones and Internet of Things. I also use a lot of data from the crowd, typically crowdsourcing or social media data. Some of my current research projects include:

- **Personal Knowledge Graph:** Search engines have demonstrated the power of a global knowledge graph. How can we use the rich data from smartphones to build a personal knowledge graph that models people, places, activities, and things?
- **Giotto:** How can we build out an open infrastructure for the Internet of Things, in a manner that is adaptive, privacy-sensitive, and easy for developers?
- **UniAuth:** What if our smartphones could manage all of our authentication needs, both for web services and for the Internet of Things? How can we use smartphone sensor and log data to protect those devices?
- **Urban Analytics:** How can we use data from smartphones and social media to better understand the behaviors of people in cities?
- **PrivacyGrade.org:** Can we develop new ways of combining crowdsourcing with automated techniques to analyze the privacy-related behaviors of smartphone apps and Internet of Things?
- **CrowdVerify:** Similar to the above, how can we combine crowdsourcing with automated techniques to summarize privacy policies and terms of use?
- **Social Cybersecurity:** How can we use techniques from social psychology to improve people's awareness, knowledge, and motivation to be secure online?

Education

- 2005 Ph.D., Computer Science, University of California at Berkeley
Advisor: James Landay
Thesis topic: *An Architecture for Privacy-Sensitive Ubiquitous Computing*
- 1997 B.S., Discrete Mathematics, Georgia Institute of Technology
Highest honors
- 1997 B.S., Computer Science, Georgia Institute of Technology
Highest honors
Minor: Software Engineering and Operations Research

Academic Honors and Awards

- 2015-2017 New America National Cybersecurity Fellow
- 2015 NSA Competition for Best Scientific Cybersecurity Paper for 2014, Honorable Mention (see [C.76])
- 2015 IBM Faculty Award
- 2014 HCII Career Development Faculty Fellowship (2014-2016)
- 2014 HotMobile 2014 Best Demo award (see [C.68])
- 2013 Ubicomp 2013 Best Paper award (see [C.65])
- 2013 PopTech Science Fellow
- 2012 Kavli Fellow

2012 ICWSM 2012 Best Paper award (see [C.58])
2010 Alfred P. Sloan Research Foundation Fellowship
2008 CHI 2008 Honorable Mention award (see [C.29])
2007 DARPA Computer Science Study Panel
2003 Siebel Scholar
2001 Intel Fellowship
1999 GAAAN Fellowship, University of California at Berkeley
1997 NSF Honorable Mention

Professional Employment

2010 – Now

Associate Professor, Carnegie Mellon University, Human Computer Interaction Institute

Developing tools to infer onset of **depression** using smartphone data (with Afsaneh Doryab, Janne Lindqvist, Jun Ki Min, Jason Wiese, John Zimmerman). The goal of this project is to use smartphone sensors and data to infer the early onset of major depression in individuals, by modeling social relationships [C.62], physical activities, and sleep patterns [C.70]. *Has led to conference papers [C.45], [C.49], [C.55], [C.62], [C.70], [C.75], and [C.79]. Has led to media [M.90], [M.91].* Funded in part by DARPA and Google.

Investigating **Urban Analytics** (with Justin Cranshaw, Dan Tasse, and Norman Sadeh). The goal of this work is to use machine learning to discover insights about urban areas by analyzing the large quantities of social media its residents generate. *Has led to conference paper [C.58], which won best paper at ICWSM 2012. Has led to media [M.60], [M.61], [M.63], [M.64], [M.65], [M.66], [M.67], [M.68], [M.69], [M.123].*

Developing **PrivacyGrade.org** (with Shah Amini, Jialiu Lin, Song Luan, Mike Villena, Norman Sadeh). The goal of this project is to developer better tools that can facilitate privacy and security analysis of Android apps, in terms of better automation as well as better tools for manually inspecting apps. *Has led to conference papers [C.59], [C.66], [C.71], [C.72], [C.74], [C.82]. Has led to media [M.59], [M.62], [M.71], [M.72], [M.73], [M.75], [M.76], [M.77], [M.78], [M.79], [M.80], [M.81], [M.84], [M.87], [M.88], [M.89], [M.96], [M.97], [M.98], [M.99], [M.100], [M.101], [M.102], [M.103], [M.104], [M.105], [M.106], [M.107], [M.108], [M.109], [M.110], [M.111], [M.112], [M.113], [M.114], [M.115], [M.116], [M.117], [M.118], [M.119], [M.120], [M.121], [M.125], [M.126], [M.128], [M.138].* Funded in part by NSF, NQ, Google, and Army Research Office.

Developing **UniAuth** (formerly Context-Aware Scalable Authentication, with Sauvik Das, Eiji Hayashi, and Ian Oakley). Our goal is to simplify authentication for cloud computing and ubicomp services by having our smartphones manage our credentials, by leveraging the rich array of onboard sensors on the smartphone. *Has led to conference papers [C.51], [C.65], [C.67], [C.83].*

Exploring **Social Cybersecurity** (with Sauvik Das, Hyun-Jin Kim, and Laura Dabbish). The goal of this project is to investigate and evaluate the use of social influences to improve people's awareness, knowledge, and motivation to be more secure online. *Has led to conference papers [C.73], [C.76], [C.80].* Funded in part by NSF.

Taught classes related to Social Web, Designing Human-Centered Systems (our intro to UX design course), and our Master's of Human-Computer Interaction (MHCI) capstone course.

Served as director of our MHCI program for the 2013-2014 academic year.

2008 – Now

Co-Founder, Wombat Security Technologies <http://wombatsecurity.com>

Wombat Security Technologies was founded in June 2008 by Dr. Lorrie Cranor, Dr. Jason Hong, and Dr. Norman Sadeh. The company's mission is to help organizations combat phishing attacks through a combination of novel game-based training and filtering products initially developed by the founders at Carnegie Mellon University.

Helped secure SBIR Phase I funding from the Air Force, "Micro Games for Cyber Threat Awareness" for \$100,000, and SBIR Phase II funding for \$750,000. <http://www.sbir.gov/sbirsearch/detail/869>

Helped secure SBIR Phase I funding from ARO for "High-Accuracy, Zero-Hour Anti-Phishing Filtering Techniques" for \$100,000, and SBIR Phase II funding for \$750,000.

Awards that Wombat Security Technologies has won include:

- 2016 Red Herring Top 100 North America Winner
- Finalist, SC Awards 2016 for exemplary professional leadership in information technology

- Named the Leader in Gartner's 2015 Magic Quadrant for Security Awareness
- Deloitte's 2015 Technology Fast 500 - Wombat ranked 104 on Deloitte's Technology Fast 500™ in 2015 and ranked as the fastest growing company in the state of Pennsylvania.
- Cybersecurity Ventures, One of top 500 Hot Cybersecurity Companies to Watch in 2015
- CIO Review, 20 most promising Enterprise Security companies in 2015
- Cyber Defense Magazine, Most Innovative Security Training Solutions for 2015
- Infosecurity Product Guide, Gold Winner of its Excellence Award for Best Security Training and Educational Program, 2015
- Infosecurity Product Guide, Global Excellence Gold award in the Tomorrow's Technology Today category for the Security Training Platform, 2014
- Infosecurity Product Guide, Global Excellence Bronze award in New Products for CyberStrength product
- "Hot Company" winner in the 8th Annual 2013 Hot Companies and Best Products Awards
- PopCity Top Ten Tech Companies to Watch in 2013
- PC Magazine's "Editor's Choice" Award for Anti-Phishing Products
- 8th Annual 2012 Info Security's Global Excellence Awards
- 4th Annual 2012 Golden Bridge Awards for IT Training and Education Innovations

Helped write business plans, map out product lines, do business development, raise funding, and do multiple talks and webinars.

2004 – 2010

Assistant Professor, Carnegie Mellon University, Human Computer Interaction Institute

Taught courses in human-computer interaction. Performed research in areas of human-computer interaction, focusing on usable privacy and security, mobile social computing, and ubiquitous computing.

Developed **Marmite** (with Jeff Wong), an end-user programming tool for re-purposing existing digital content by rapidly extracting, processing, and integrating existing web content and services. For example, "find all of the addresses on this set of web pages, keep only the ones in Pennsylvania, and then put them all onto Google Maps." *Has led to conference paper [C.22].* Funded in part by DARPA and NSF.

Developed **Next-Generation Instant Messaging** (with Karen Tang). NGIM looks at the convergence of mobility, multimodal input and output, and location information for instant messaging. *Has led to conference paper [C.26], [C.43] and [C.53], and workshop papers [w.13] and [w.16].* Funded in part by NSF, Nokia, and Microsoft.

Developed tools and techniques for **Supporting Trust Decisions**, in the context of anti-phishing (with PIs Alessandro Acquisti, Lorrie Cranor, Sven Dietrich, Julie Downs, Norman Sadeh). Rather than focusing exclusively on algorithms, this project looks at helping end-users make better decisions. *Has led to conference papers [C.19], [C.20], [C.21], [C.24], [C.25], [C.28], [C.29], [C.30], [C.31], [C.34], [C.37], [C.38], [C.39], [C.46], [J.12], [J.13], [J.14]. Has led to media [M.83], [M.58], [M.57], [M.55], [M.51], [M.42], [M.41], [M.39], [M.38], [M.33], [M.31], [M.30], [M.29], [M.28], [M.27], [M.26], [M.25], [M.24], [M.22], [M.21], [M.20], [M.19], [M.18], [M.17], [M.16], [M.15], [M.14], [M.13], [M.12], [M.11], [M.10], [M.9], [M.7], [M.6], [M.5].* Funded in part by NSF, ARO, and Portugal Telecom.

Developed tools and techniques for **Usable Privacy and Security in Pervasive Computing** (with PIs Lorrie Cranor, Bruce McLaren, Norman Sadeh). Designing, implementing, and evaluating various user interfaces to help capture and refine end-user preferences for location disclosure and other kinds of services in pervasive computing. *Has led to papers [C.23], [C.26], [C.33], [C.42], [C.43], [C.45], [J.10], [J.15]. Has led to media [M.43], [M.32], [M.8].* Funded in part by NSF, ARO, and France Telecom.

Developed Topiary, a rapid prototyping tool for location-enhanced applications. *Has led to conference paper [C.15], journal article [J.7], and workshop paper [w.12].*

1993 – Now

Consulting

Advised companies on user interface design and user interface software implementation.

NetRaker Corporation, Mt. View, CA

Edealfinder.com, Atlanta, GA

FXPAL, Palo Alto, CA

NetEase.com, Guangzhou, China

Dixie Dye, Lafayette, Georgia

1998 – 2004

Research Assistant, University of California at Berkeley, with Dr. James Landay

Investigated support and applications of ubiquitous computing, investigating issues of privacy, design tools, design patterns, and emergency response for firefighters.

Developed Confab, an infrastructure for simplifying the task of creating privacy-sensitive ubiquitous computing systems. *Has led to one full paper describing the overall system in MobiSys 2004 [C.12], a short paper on distributed queries at Ubicomp 2002 [C.10], an essay on context infrastructure in Journal of HCI [J.3], a short journal paper in Personal Technologies [J.2], participation in a CHI 2001 workshop on ubiquitous computing [w.4], a CHI 2001 workshop on ubiquitous computing [w.3], a CHI 2002 doctoral consortium talk [c.4], and a NIST workshop on Smart Spaces [w.1].*

Supervised one undergrad in understanding and analyzing privacy needs in ubiquitous computing. *Has led to full paper on privacy risk models for ubiquitous computing [C.13]. With colleague Xiaodong Jiang, have developed model for architecting privacy-sensitive systems, leading to a full paper [C.9].*

Co-supervised two undergrads with colleague James Lin in design patterns for ubiquitous computing. *Has led to one full paper [C.14].*

Co-supervised four undergrads with colleague Xiaodong Jiang on ubiquitous computing for firefighters. *Has led to a full paper on support tools for firefighters [C.11] and a full paper on field studies with firefighters [C.10].*

Helped develop WebQuilt (<http://dub.washington.edu:2007/projects/webquilt/>), remote web logging and visualization software intended to help web designers find and understand web usability problems. *Co-supervised three undergrads with colleague Sarah Waterson. Has led to papers [C.6], [C.7], and [J.4]. Downloaded over 1000 times since January 2001.*

Mentored SUPERB Summer 2003 student Ian Li on project A Capella, a context-aware programming by demonstration. Also mentored SUPERB Summer 2000 student Alex Salazar on project PilotStorm, a PDA-based brainstorming tool for small groups.

Helped develop DENIM (<http://dub.washington.edu:2007/denim/>), a sketch-based tool for early web site design. *Co-supervised eight undergrads with colleague James Lin. Led to [C.3], [J.5], [T.2]. Downloaded at least 75000 times since May 2000.*

Developed SATIN (<http://dub.washington.edu:2007/projects/satin/>), toolkit-level support for sketch-based informal applications. Toolkit is being used in research projects at Berkeley and at Georgia Tech. *Culminated in a UIST 2000 full paper [C.4] and workshop papers [w.5] and [w.6]. Downloaded at least 2500 times since August 2000.*

2001 – 2002

Research Assistant, Xerox PARC, with Mark Newman and Dr. Keith Edwards

Worked on SpeakEasy, a project focused on radical interoperability for devices and sensemaking in a ubicomp environments. Developed map-based interface for visualizing components, as well as location- and history-based queries. *Led to a conference paper [C.8].*

1998

Research Assistant, Fuji-Xerox Palo Alto Laboratory, with Dr. Bill Schilit

Designed and developed Printertainment, entertainment applications for paper user interfaces. Paper user interfaces can be printed out, marked up, and later scanned back in and processed. Applications included MadLibs and CoverNotes, a lightweight group communication tool. *Culminated in a CHI 1999 short paper [C.2].*

1997

Research Assistant, IBM T.J. Watson Research, with Dr. Noi Sukaviriya

Designed and developed JTransport, a system that can migrate running Java applications from one computer to another. Extended this to turn arbitrary Java applets into collaborative applications by replicating the applet and multicasting user events.

1996 – 1997

Research Assistant, Georgia Institute of Technology, with Dr. Gregory Abowd

Assisted with software development on Cyberguide, a location-aware tour guide on small devices. *Culminated in journal article [J.1] and technical report [T.1].*

Teaching

Some feedback from students on my teaching since 2004 at Carnegie Mellon University:

- Jason is brilliant. He has incredible suggestions and makes our lives easier!
- It is clear that Jason cares about us and wants us to succeed. He provided very helpful feedback throughout the semester even though he wasn't our faculty mentor.

- Always encouraging students to excel hard. Full of great insights.
- Jason's feedback is always very helpful, and I appreciate the resources he has provided us with regarding artifacts we should be creating for Capstone.
- Jason though he was not our guide for the project his input for those 30 min or 1 hr sessions was extremely helpful. His positivity and encouragement about our problem space is what kept us going and was extremely valuable and kept our morale high. He was interested in the research we had done and what we found and that helped us have a more informed discussion to streamline and guide us.
- Very detail-oriented and valuable feedback throughout the project! Kept us remembering to answer the why and what value we are giving our clients.
- Jason provided great feedback and helped our team figure out how best to frame our insights even though he wasn't our faculty advisor. He also provided ideas on how we could make our presentation more interesting. We also appreciated the fact that after our presentation, Jason met with our team to tell us we did well and gave us feedback directly. His lectures throughout the semester was engaging as well.
- Awesome experience working with Jason, the few times that I have. I wish I had more opportunities to interface with and learn from Jason!
- Jason was a fantastic teacher and incredibly knowledgeable in the content.
- The way he presented was also interesting and doing quick class discussions kept everyone awake.
- Thank you for your help. It was great to have you as a faculty advisor for the course. I wish we had you more often on faculty meetings.
- Jason mentored very well for the course and was flexible with the timings, which really helped our project. His inputs during the last phase of the project were very crucial and I am glad that he devoted his time when needed.
- Jason is a wonderful mentor. Thank you for all your hard work
- Jason was incredibly thoughtful in his analysis of group, I truly appreciate his time in aiding our research throughout the semester. Sincere gratitude, Jason. You did excellent work.
- JASON HONG IS AWESOME!!!!!!!
- Professor Hong was always very responsive to students' needs and is an excellent advisor
- Professor Jason Hong was a great source for inspiration for the more open-ended projects and provided quick and valuable feedback on potential ideas.
- Prof. Hong is an exceptional teacher he has the ability to not only produce exciting/informative lectures but motivates his students to become autonomous in their pursuit of knowledge as well.
- Prof. Hong is an excellent professor
- The course material was good and it was taught very well. Prof. Hong was funny and informative, a very good lecturer.
- Jason Hong is excellent. He keeps the material interesting with his enthusiasm and humor. The blend of lecturing with activities, videos, and student presentations is great.
- Jason Hong clearly illustrates in this class that he is very knowledgeable and an excellent resource for knowledge in HCI usability practices.
- Jason is a good lecturer. Usually I fall asleep in lecture-style classes, but I think the size of this class and his method of integrating examples (such as entertaining videos) keeps me interested. Learning during lectures is actually my favorite part of this class b/c it is a topic I am very interested in.

Carnegie Mellon University

		Teaching Score (5 = high)	Course Score (5 = high)
Summer 2015	MHCI Capstone Project Course (05-671) w/ Laura Ballay, Karen Berntsen, Skip Shelley, Leanne Libert	3.77	3.55
Spring 2015	MHCI Capstone Project Course (05-671) w/ Laura Ballay, Karen Berntsen, Skip Shelley, Leanne Libert	4.17	3.69
Sum 2014	MHCI Capstone Project Course (05-671) w/ Jenna Date, Karen Berntsen, Skip Shelley, Leanne Libert	4.67	4.57
Spring 2014	MHCI Capstone Project Course (05-671) w/ Jenna Date, Karen Berntsen, Skip Shelley, Leanne Libert	4.38	4.45
Fall 2013	Pro Seminar		
Spring 2013			

Fall 2012	The Social Web (05-820)	4.38	3.75
	————— (05-320)	4.75	4.75
Sum 2012	MHCI Capstone Project Course (05-671) w/ Jenna Date, Katie Scott, David Bishop	4.19	4.13
Spring 2012	HCI and Privacy Reading Seminar	4.4	4.8
	New reading seminar for research topics in privacy		
	The Social Web (05-820) with Bob Kraut	3.0	3.73
	————— (05-320)	4.13	3.0
Fall 2011	Designing Human-Centered Systems (05-891) with Jim Morris and Scott Davidoff	4.5	4.5
	————— (05-391)	4.09	4.09
Sum 2011	MHCI Capstone Project Course (05-671) with Jenna Date and Katie Minardo Scott	4.29	4.43
Spring 2011	MHCI Capstone Project Course (05-671) with Jenna Date and Katie Minardo Scott	4.56	4.63
Fall 2010	The Social Web (05-820) with Niki Kittur	4.5	4.5
	————— (05-320)	4.0	3.75
Spring 2010	Designing Human-Centered Systems (05-891)	4.1	4.0
	————— (05-391)	4.5	4.5
Fall 2009	The Social Web (05-820) with Bob Kraut	N/A	N/A
	————— (05-320)	N/A	N/A
Spring 2009	Designing Human-Centered Systems (05-391)	4.42	4.25
	Revamped an old course previously taught by graduate students, re-purposed as a service course to the entire university for introducing undergraduates to HCI.		
Fall 2008	The Social Web (05-820) with Bob Kraut	4.1	4.8
	————— (05-320)	3.1	3.3
Spring 2008	Programming Usable Interfaces (05-630)	3.8	4.6
	————— (05-430)	3.0	4.0
Fall 2007	The Social Web (05-820) with Bob Kraut	3.3	4.1
	————— (05-320)	4.5	4.7
	New course co-developed with Robert Kraut looking at social and technical issues with social web sites. Internally funded by Institute for the Study of Entrepreneurship, Innovation and Technology at CMU.		
Spring 2007	Research Topics in Ubiquitous Computing (05-899D)	3.8	4.0
	Usable Privacy and Security (17-800) with Lorrie Cranor	4.8	4.8
	————— (17-500)	5.0	5.0
Fall 2006	Software Architectures for User Interfaces (05-631)	4.4	4.1
	————— (05-431)	4.0	3.7
Spring 2006	Undergrad HCI Project Course (05-571A)	4.9	3.8
	Semester-long capstone project for seniors specializing in human-computer interaction. Resulted in one journal submission to The Journal of the American Dental Association (JADA) [J.8].		
Spring 2006	Usable Privacy and Security (05-899) with Lorrie Cranor and Mike Reiter	5.0	4.47
	New course looking at research issues in designing usable privacy and security mechanisms.		
Fall 2005	Software Architectures for User Interfaces (05-631)	4.3	3.8
	————— (05-431)	2.7	2.2
	Resulted in one student paper to ASSETS conference on assistive technologies, 2 plug-ins for the open source Quicksilver project, and conference paper [C.41].		
Spring 2005	Undergrad HCI Project Course (05-571A)	2.8	2.2
Fall 2004	Research Topics in Ubiquitous Computing (05-899I)	4.2	4.1

Developed a new special topics course on ubiquitous computing. Topics included location-based services, sensing, context-awareness, privacy, software architectures, rapid prototyping, and applications. Led to paper [C.18].

University of California at Berkeley

- Sum 2004 User Interface Design, Prototyping, and Evaluation, with Dr. James Landay and Scott Klemmer
Sum 2002 Instructor, University of California at Berkeley Extension Summer Engineering Institute
Sum 2001 Co-taught a three-day compressed version of a semester-long course on user interfaces. My focus was on web design and on toolkits for building user interfaces.
- Spring 2001 The Past, Present, and Future of Interactive Computing (CS39I), with Dr. James Landay
Instructor, University of California at Berkeley
Developed a new freshman seminar, co-taught with professor James Landay. Surveyed and discussed seminal developments in human-computer interaction, current state of the art in user interfaces, and trends and potential form factors for the future. 18 students.
- Fall 1998 Software Engineering (CS169), with Dr. Alfred Strohmeier (Fall 1998)
Teaching Assistant, University of California at Berkeley
- Spring 1998 Software Engineering (CS169), with Dr. Eric Brewer (Spring 1998)
Teaching Assistant, University of California at Berkeley
- Fall 1997 Human Computer Interaction (CS160), with Dr. James Landay (Fall 1997)
Teaching Assistant, University of California at Berkeley

Georgia Institute of Technology

- Spring 1997 Introduction to Programming (CS1502), Apr1997 – Jun1997
Instructor, Georgia Institute of Technology
- 1996 – 1997 Special Topics: Java Programming (CS4812), Sep1996 – Mar1997
Instructor, Georgia Institute of Technology
- 1996 – 1997 Introduction to Programming (CS1502), with Dr. Russ Shackelford
Head Teaching Assistant, Georgia Institute of Technology
- 1994 – 1996 Introduction to Programming (CS1502), with Dr. Russ Shackelford
Teaching Assistant, Georgia Institute of Technology

Academic Advising

- Graduated Jason Wiese, CMU HCII (co-advised with John Zimmerman, graduated Sep 2015)
PhD Currently doing a one-year stint at FXPAL before faculty at University of Utah
students Dissertation: *Evolving the Ecosystem of Personal Behavioral Data*
- Eiji Hayashi, CMU HCII (graduated July 2015)
Currently a postdoc at CMU.
Dissertation: *UniAuth: Building a Human-Centered Identity Management System*
- Shahriyar Amini, CMU ECE (graduated May 2014)
Currently a software engineer at Google, previously was a software engineer at Appthority
Dissertation: *Analyzing Mobile App Privacy Using Computation and Crowdsourcing*
- Jialiu Lin, CMU CSD (co-advised with Norman Sadeh, graduated Sep 2013)
Currently a Privacy Engineer at Google
Dissertation: *Understanding and Capturing People's Mobile App Privacy Preferences*
- Guang Xiang, CMU LTI (co-advised with Carolyn Rose, graduated Feb 2013)
Currently a data scientist at Twitter
Dissertation: *Toward a Phish Free World: A Feature-type-aware Cascade Learning Framework for Phish Detection*
- Polo Chau, CMU MLD (co-advised with Christos Faloutsos, Niki Kittur, graduated Aug 2012)
Currently an assistant professor at Georgia Institute of Technology

Dissertation: *Data Mining Meets HCI: Making Sense of Large Graphs*

Karen Tang, CMU HCII (co-advised with Dan Siewiorek, graduated Dec 2010)

Was a postdoc at UC Irvine

Dissertation: *"Sometimes Less is More": Multi-Perspective Exploration of Disclosure Abstractions in Location-Aware Social Mobile Applications*

Current
PhD
students

Sauvik Das, CMU HCII (co-advised with Laura Dabbish)

Dan Tasse, CMU HCII

Fanglin Chen, CMU HCII

Alex Sciuto, CMU HCII (co-advised with Jodi Forlizzi)

Former PhD
students

Song Luan, CMU ECE (finished with Master's degree, inactive since 2015)

Bryan Pendleton, CMU HCII (inactive since 2010)

Jeff Wong, CMU HCII (inactive since 2009)

Pedram Keyani, CMU HCII (inactive since 2005)

Postdocs

Swarup Sahoo (2016-present), working on DARPA Brandeis privacy

Eiji Hayashi (2015-2016), working on Giotto Internet of Things infrastructure

Afsaneh Doryab (2012-2014), worked on augmented social graph and detecting depression [C.70, w.23].

Jun Ki Min (2011-2014), worked on augmented social graph [C.62], sleep monitor [C.70], and detecting depression.

Janne Lindqvist (2009-2011), worked on mobile mashups, undistracted driving [C.47], understanding why people use foursquare [C.49], and mobile privacy [C.51]. Currently an assistant professor at Rutgers University.

Visiting
Scholars

Mohit Sethi, visiting PhD student / Ericsson (2016)

Gaurav Srivastava, Master's student (2016-2017), worked on PrivacyProxy

Ke Xu, Singapore Management University (2015-2016), worked on analyzing privacy behaviors of apps.

Minxing Liu, Beijing University (2015), worked on detecting which apps are targeting children [C.84].

Haoyu Wang, Beijing University (2014-2015), worked on analyzing the privacy of smartphone apps [C.82, C.84].

Sougata Sen, Singapore Management University (2014-2015), worked on crowd resourcing

Prof. Cheng Yao, Zhejiang University (2014-2015)

Prof. Wenfang Zhang, Southwest Jiaotong University (2014-2015)

Su Mon Kywe, Singapore Management University (2013-2014), worked on detecting fake Android apps [C.78].

Manuel Maas, Karlsruhe Institute of Technology (2013), worked on improving Kinect authentication [C.69]

Viet Bui, Karlsruhe Institute of Technology (2013), worked on combining multiple sensors for authentication

Gökhan Bal, Goethe University Frankfurt (2013), worked on usability of smartphone privacy policies [J.17, C.71]

Long Jin, Tsinghua University (2012), worked on location semantics based on location data

Prof. Haipeng Wang (2011-2013), associate professor of the School of Computer Science, Northwestern Polytechnical University, Xi'an.

Hongzhou Shen, Nanjing University (2011-2012), worked on mobile mashups

Paula Cravo, CMU INI / Portugal (2011), worked on security protocols for mobile finance

Gang Liu, City University of Hong Kong (2010-2011), worked on wisdom of crowds for phishing [C.52]

Shaoyu "Derec" Wu, CMU Japan (2009), worked on anti-phishing user interfaces

Yue Zhang, University of Pittsburgh (2006-2007), worked on automated detection of phishing sites [C.20, C.24]

Research
Experience
for
Undergrads

Hyun-Ji Kim, CMU (2015) NSF REU, worked on sending questions about urban settings to crowd

Jennifer Chou, CMU (2015) NSF REU, worked on identifying Twitter patterns in areas

Emily Su, CMU (2015) NSF REU, worked on improving reverse geocoding

Joshua Herman, Brown University (2015) NSF REU, worked on using social media to infer economics

Eva Peng, CMU (2015) NSF REU, worked on using social media to understand businesses
Joshua Korn, CMU (2015) NSF REU, worked on quiz game for social cybersecurity
David Fink, University of Rochester (2014) NSF REU, worked on quiz game for social cybersecurity
Matthew Long, University of Maryland (2014), NSF REU, worked on quiz game for social cybersecurity
Sunnia Ye, Wellesley University (2014), NSF REU, worked on app recommendations for privacy
Richmond Wong, Cornell (2013), NSF REU, worked on web site for smartphone privacy

Awards for Undergrad Research

Kevin Ku for *Privacy Proxy: Using Crowdsourcing to Detect and Mitigate Information Leakage on Smartphones*
Advisors: Jason Hong and Yuvraj Agarwal
Meeting of the Minds – 2016 Alumni Award for Undergraduate Excellence in Computer Science
Andy Choi (ECE), “Providing New Business Analytics Through Geotagged Social Media Data”
Meeting of the Minds – 2015 Yahoo! Undergraduate Research Award / Runner Up
First Place: Jeffrey Lai, et. al., *Wii Want to Write: Gesture Recognition System*
Meeting of the Minds – 2009 Lockheed Martin ECE Undergraduate Project Awards / 1st place
Sungjoon Won and Jing Jin, for *Contextual Web History* (see [C.32])
Meeting of the Minds – 2008 IBM Innovation that Matters Awards

Doctoral Dissertation Committees

Dan Tasse, Carnegie Mellon University (HCII). *Social Media Neighborhood Guides*. Proposed April 2016.
Sauvik Das, Carnegie Mellon University (HCII). *Social Cybersecurity: Understanding and Leveraging Social Influence to Improve End-User Security Sensitivity*. Proposed March 2016.
Jeff Rzeszotarski, Carnegie Mellon University (HCII). *Uninhibited Sensemaking: Revealing Nuances in Data at Scale*. Proposed January 2016.
Blase Ur, Carnegie Mellon University (ISR). *Supporting Security and Privacy Decisions with Data*. Proposed July 2015.
Justin Cranshaw, Carnegie Mellon University (ISR). *Utilizing the Urban Crowd to Enrich Computational Knowledge of Cities*. Proposed Apr 2014.
Jing Tian, University of South Carolina (CSE). *User Verification and Identification Based on 3D Passwords Captured by Motion Sensors*. Proposed Feb 2014.
Peter Landwehr, Carnegie Mellon University (SCS COS). *Labeling, Analyzing, and Simulating Tweets in Disasters*. Proposed Sep 2013.
Kenneth Joseph, Carnegie Mellon University (ISR). *New Methods for the Study of Social Identities and Stereotypes*. Proposed May 2015, completed June 2016.
Tim Vidas, Carnegie Mellon University (ECE). *Safe Software Distribution in Distributed Application Marketplaces*. Proposed Apr 2014, completed January 2016.
Jason Wiese, Carnegie Mellon University (HCII). *Enabling an Ecosystem of Personal Behavioral Data*. Proposed May 2013, completed September 2015.
Eiji Hayashi, Carnegie Mellon University (HCII). *UniAuth: Building a Human-Centered Identity Management System*. Proposed Sep 2013, completed July 2015.
Shahriyar Amini, Carnegie Mellon University (ECE). *Analyzing Mobile App Privacy Using Computation and Crowdsourcing*. Proposed Jan 2013, completed May 2014.
Jiang Zhu, Carnegie Mellon University Silicon Valley (ECE). *BehavioMetrics: Behavior Modeling from Heterogeneous Sensory Time-Series*. Proposed Dec 2012, completed May 2014.
Jialiu Lin, Carnegie Mellon University (SCS CSD). *Understanding and Capturing People’s Mobile App Privacy Preferences*. Proposed July 2012, completed Sep 2013.
Tae Yano, Carnegie Mellon University (SCS LTI). *Text as Actuator: Text-Driven Response Modeling and Prediction in Politics*. Proposed September 2011, completed July 2013.
Guang Xiang, Carnegie Mellon University (LTI). *Toward a Phish Free World: A Feature-type-aware Cascade Learning Framework for Phish Detection*. Proposed April 2012, completed February 2013.

Gabriel Johnson, Carnegie Mellon University (Architecture). *Sketch-based Interaction for Designing Precise Laser Cut Items*. Proposed May 2011, completed September 2012.

Hyun Jin Kim, Carnegie Mellon University (ECE). *All Trust is Local: Empowering Users' Authentication Decisions on the Internet*. Proposed April 2010, completed September 2012.

Duen Horng "Polo" Chau, Carnegie Mellon University (SCS MLD). *Understanding and Interacting with Massive Networks: Bridging Data Mining & Human-Computer Interaction*. Proposed March 2011, completed August 2012.

Aruna Balakrishnan, Carnegie Mellon University (SCS HCII). *Investigating the Effects of Visualizations in Remote Collaborative Analysis*. Proposed July 2010, completed August 2011.

Karen Tang, Carnegie Mellon University (SCS HCII program). *"Sometimes Less is More": Multi-Perspective Exploration of Disclosure Abstractions in Location-Aware Social Mobile Applications*. Completed 2010.

Janice Tsai, Carnegie Mellon University (EPP program). *The Impact of Salient Privacy Information on Decision-Making*. Proposed Apr 2008, completed 2010.

Steve Sheng, Carnegie Mellon University (EPP program). *Combating phishing through technical, policy and user education*. Proposed Jan 2008, completed 2009.

Serge Egelman, Carnegie Mellon University (SCS COS). *Trust Me: Building A Methodology for Trustworthy Online Trust Indicators*. Proposed Oct 2007, completed May 2009.

Ponnurangam Kumaraguru, Carnegie Mellon University (SCS COS). *PhishGuru: A System for Educating Users about Semantic Attacks*. Proposed Apr 2007, completed May 2009.

Rob Reeder, Carnegie Mellon University (SCS CSD). *User Interface Visualization Techniques to Support Fast, Accurate Security and Privacy Policy Authoring*. Proposed Jan 2007, completed July 2008.

Master's
Theses
Supervised

Angelia, CMU INI (MSISTM), worked on *CrowdVerify: Using the Crowd to Summarize Web Site Privacy Policies*, completed Dec 2014.

Chaiwut Chaianuchittrakul, CMU INI (MSISTM), worked on *Crowdsourcing Privacy Policy Analysis: Evaluating the Comfort, Readability and Importance of Privacy Policies*, completed Dec 2013.

Paula Cravo, CMU INI / Portugal, worked on security protocols for mobile finance, completed Dec 2011.

Service

Editorial Boards

- 2013 – Now ACM Transactions on Human Computer Interaction, Associate Editor
- 2007 – Now IEEE Pervasive Computing, Editorial Board (Associate Editor in Chief since 2013)
- 2007 – Now Communications of the ACM (CACM) Editorial Board, Web site subboard
- 2011 – 2015 Foundations and Trends in Human Computer Interaction

Steering Committees

- 2012 – Now Location Based Social Networks (LBSN)
- 2009 – 2013 HotMobile
- 2007 – Now Symposium on Usable Privacy and Security

Guest Edited Journals

- 2015 IEEE Pervasive Computing, Special Issue on Domestic Computing
- 2014 IEEE Pervasive Computing, Special Issue on Wearable Computing
IEEE Pervasive Computing, Special Issue on Privacy
- 2010 IEEE Pervasive Computing, Special Issue on Connected Youth
- 2007 IEEE Pervasive Computing, Special Issue on Privacy and Security

Technical Program Chairs

- 2015 Mobisys 2015 (Mobile Systems, Applications, and Services), with Marco Gruteser

- 2009 HotMobile 2009 (Hot Topics in Mobile Computing)
- 2008 SOUPS 2008 (Symposium On Usable Privacy and Security), with Simson Garfinkel
- 2007 SOUPS 2007 (Symposium On Usable Privacy and Security), with Diana Smetters

Program Committees

- 2017 IEEE Symposium on Security and Privacy 2017 (Oakland Conference)
- 2016 IEEE Symposium on Security and Privacy 2016 (Oakland Conference)
2nd International Workshop on IoT Privacy, Trust, and Security (IoTPTS 2016)
- 2015 MCSS 2015 (International Workshop on Mobile Systems for Computational Social Science), at Ubicomp 2015
GeoPrivacy Workshop, at SIGSPATIAL 2015
- 2014 Chinese CHI 2014
- 2013 Mobisys 2013 (Mobile Systems, Applications, and Services)
HotMobile 2013 (Hot Topics in Mobile Computing)
HUPS 2013 (Workshop on usable privacy & security for the home)
- 2011 Ubicomp 2011 (Conference on Ubiquitous Computing)
MobiSys 2011 (Mobile Systems, Applications, and Services)
Mobicase 2011 (International Conference on Mobile Computing, Applications, and Services)
- 2010 UIST 2010 (ACM Symposium on User Interface Software and Technology)
MobiSys 2010 (Mobile Systems, Applications, and Services)
SIGCOMM 2010 Workshop on Home Networking
- 2009 UIST 2009 (ACM Symposium on User Interface Software and Technology)
HotSec 2009 (Hot Topics in Security)
- 2008 World Wide Web 2008 (Privacy and Security track)
EVoting 2008
- 2007 HotMobile 2008 (Hot Topics in Mobile Computing)
ICME 2007 (International Conference on Multimedia and Expo)
IUI 2007 (International Conference on Intelligent User Interfaces)
Financial Cryptography 2007 (FC07) Security Usability Workshop
- 2006 HotMobile 2007 (Hot Topics in Mobile Computing)
SOUPS 2006 (Symposium On Usable Privacy and Security)
MobiSys 2006 (Mobile Systems, Applications, and Services)
ICMI 2006 (International Conference on Multimodal Interfaces)
CHI 2006 (ACM Conference on Human Factors in Computing Systems)
3rd Eurographics Workshop on Sketch-Based Interfaces and Modeling
- 2005 WMCSA 2006 (Workshop on Mobile Computing Systems and Applications)
CHI 2005 (ACM Conference on Human Factors in Computing Systems)
UIST 2005 (ACM Symposium on User Interface Software and Technology)
IUI 2005 (International Conference on Intelligent User Interfaces)
- 2004 UIST 2004 (ACM Symposium on User Interface Software and Technology)
- 2003 WMCSA 2003 (Workshop on Mobile Computing Systems and Applications)

Workshops Organized

- 2005 Ubicomp 2005 Privacy Workshop, with Alessandro Acquisti, John Canny, Jens Grossklags,
Marc Langheinrich, Scott Mainwaring
- 2004 Ubicomp 2004 Privacy Workshop, with John Canny, Alessandro Acquisti, Marc Langheinrich

Doctoral Consortium Organizer

- 2008 HotMobile 2008 (Hot Topics in Mobile Computing)
- 2006 WMCSA 2006 (Workshop on Mobile Computing Systems and Applications)

Student Volunteer Organizer

2001 UIST 2001 (ACM Symposium on User Interface Software and Technology), with Khai Truong

Organizing Committee

2005 SOUPS 2005 (Symposium On Usable Privacy and Security)

University Service

2013 – 2014	Professional Programs Committee	SCS HCII, Carnegie Mellon University
2013 – 2014	Director of Master's of HCI Program	SCS HCII, Carnegie Mellon University
2013	Space Committee	SCS HCII, Carnegie Mellon University
2011 – 2013	Faculty Senate (HCII)	
2011	PhD Student Admissions committee	SCS HCII, Carnegie Mellon University
2010	PhD Student Admissions committee Curriculum committee	SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University
2009	BHCI Student Admissions committee Curriculum committee	SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University
2008	Curriculum committee	SCS HCII, Carnegie Mellon University
2007	PhD Student Admissions committee MHCI Student Admissions committee BHCI Student Admissions committee Curriculum committee	SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University
2006	PhD Student Admissions committee BHCI Student Admissions committee	SCS HCII, Carnegie Mellon University SCS HCII, Carnegie Mellon University
2005	PhD Student Admissions committee	SCS HCII, Carnegie Mellon University
2002	PhD admissions committee	CS Division, University of California at Berkeley
2001	PhD admissions committee Computer Science Grad Student Assoc (CSGSA) Librarian	CS Division, University of California at Berkeley
2000	Computer Science Grad Student Assoc (CSGSA) Librarian	

Contract and Grant Support

Current Support

2016	Funder: Google Title: Using Purpose Information to Improve User Privacy on Smartphones People: Yuvraj Agarwal (PI), Jason Hong Awarded: \$71,500
2015–2019	Funder: DARPA (Brandeis Program) Title: Reconciling Purpose, Data Privacy, and User Preferences: A Holistic Approach to Managing Privacy People: Jason Hong (PI), Yuvraj Agarwal, Matt Fredrikson, Eran Toch Awarded: \$2,998,896
2015	Funder: IBM Faculty Award Awarded: \$40,000
2015	Funder: Google Title: GloTTO: A Rapidly-Deployable Platform for an End-User Oriented Internet of Things People: Anind Dey (PI), Yuvraj Agarwal, Chris Harrison, Jason Hong, Andrew Moore, Mahadev Satyanarayanan, Anthony Rowe Awarded: \$400,000
10/2014 – 2017	Funder: National Science Foundation Title: Using the Crowd to Summarize Web Site Privacy Policies and Terms of Use Policies

People: Jason Hong (PI)
Awarded: \$499,290

Past Support

- 02/2014 Funder: Google
Title: Chelada: Integrating the Web with Context-Aware Mobile Computing
People: Jason Hong (PI)
Awarded: \$82,500
- 01/2014 Funder: NQ (through CMU CyLab)
Awarded: \$65,000
- 07/2013 Funder: National Science Foundation
Title: Social Cybersecurity: Applying Social Psychology to Improve Cybersecurity (EAGER)
People: Jason Hong (PI), Laura Dabbish
Awarded: \$200,000 / 2 years
- 09/2012 – 2015 Funder: National Science Foundation
Title: Capturing People’s Expectations of Privacy with Mobile Apps by Combining Automated Scanning and Crowdsourcing Techniques
Awarded: \$1.2M (\$799,956 to CMU)
People: Jason Hong (PI), Janne Lindqvist, Joy Zhang
- 02/2013 Funder: Google
Title: CrowdScanning: Combining Crowdsourcing, Static Analysis, and Dynamic Analysis to Improve Mobile App Privacy and Security
Awarded: \$85,000
People: Jason Hong (PI)
- 02/2013 Funder: Scott Institute Seed Grants
People: Nina Baird, Jason Hong
Awarded: \$10,000
- 11/2013 Funder: Samsung
Title: Chelada: Integrating the Web with Context-Aware Mobile Computing
Awarded: \$100,000
- 07/2013 Funder: Google
Title: QuiltView: Glass-Sourced Video for Google Maps Queries
People: Mahadev Satyanarayanan (PI), Jeff Bigham, Jason Hong, Dan Siewiorek, Asim Smailagic
Awarded: \$28,000 + 10 Google Glass
- 12/2012 Funder: Google
Title: Successfully Starting Online Groups
Awarded: \$150,000
People: Robert Kraut (PI), Laura Dabbish, Jason Hong, Niki Kittur
- 04/2012 – 2013 Funder: DARPA (through SPAWAR)
Title: Real - World Analytics: Combining social networks and smartphones to understand social graphs and behaviors
Awarded: \$1,680,313 (cut to \$418,000 due to sequestration)
People: Jason Hong (PI), Joy Zhang, John Zimmerman
- 04/2012 – 2013 Funder: CMU NSA Lablet / Army Research Office
Title: Using Crowdsourcing to Analyze and Summarize the Security of Mobile Applications
Awarded: \$142,893
People: Jason Hong (PI), Norman Sadeh
- 01/2012 Funder: Google
Title: Improving Mobile App Privacy by Combining Automated Analysis and Crowdsourcing Techniques
Awarded: \$68,000 / 1 year

People: Jason Hong (PI)
 06/2011 Funder: Google
 Title: Building an Enhanced Social Graph by Mining Smartphone Sensor and Communication Data
 Awarded: \$70,000 / 1 year
 People: Jason Hong (PI), John Zimmerman
 01/2011 Funder: Google
 Title: Social Behavior Sensing and Reality Mining
 Awarded: \$50,000 / 1 year
 People: Jason Hong (PI), Joy Zhang
 08/2010 – Funder: Alfred P. Sloan Foundation
 2012 Awarded: \$50,000 / 2 years
 People: Jason Hong (PI)
 07/2010 Funder: CMU CyLab
 Title: Android App Scanner
 Awarded: \$85,000 / 1 year
 People: Jason Hong (PI)
 01/2010 Funder: Google
 Title: Context-Aware Mobile Mashups
 Awarded: \$75,000 / 1 year
 People: Jason Hong (PI), John Zimmerman
 2009 – Funder: National Science Foundation
 2014 Title: IGERT: Usable Privacy and Security
 Awarded: \$3.2M (PI: Lorrie Cranor)
 07/2009 Funder: CMU CyLab
 Title: Visualizing Home Networks
 Awarded: \$85,000 / 1 year
 People: Jason Hong (PI)
 06/2009 Funder: Nokia Research
 Awarded: \$7,000
 People: Jason Hong (PI)
 05/2008 – Funder: DARPA
 2010 Proposal: Solanum: Rapid End-User Programming and Visualizations for the Web
 Awarded: \$478,625 / 2 years
 People: Jason Hong (PI)
 09/2006 – Funder: NSF CyberTrust CNS-0627513
 2010 Proposal: User-Controllable Security and Privacy for Pervasive Computing
 Awarded: \$1,100,000 / 4 years
 People: Lujó Bauer, Lorrie Cranor, Jason Hong, Bruce McLaren, Norman Sadeh-Konieczpol (PI)
 11/2007 – Funder: Nokia Research
 2009 Proposal: User-Controllable Security and Privacy
 Awarded: \$100,000 / 2 years
 People: Jason Hong, Norman Sadeh
 07/2008 Funder: CMU CyLab
 Title: Empowering Mobile Users to Effectively Control their Privacy in a Friend Finder Application:
 Scaling up to a Campus-wide Pilot
 Awarded: \$300,000 / 1 year
 People: Lorrie Cranor, Jason Hong, Norman Sadeh (PI)
 07/2008 Funder: CMU CyLab
 Title: Towards an Internet Immune System

Awarded: \$75,000 / 1 year
 People: Jason Hong (PI)

06/2008 Funder: Center for Computational Thinking (CMU and Microsoft)
 Title: Empowering Lay Users to Control Complex Privacy and Communication Policies
 Awarded: \$100,000 / 1 year
 People: Lorrie Cranor, Jason Hong, Norman Sadeh (PI)

08/2007 Funder: Portugal Telecom
 Proposal: Anti-Phishing
 Awarded: \$120,000 / 1 year
 People: Alessandro Acquisti, Lorrie Cranor, Jason Hong, Norman Sadeh (PI)

04/2007 Funder: Microsoft Research
 Proposal: Marmite: End-User Programming for Large Sets of Real-Time Sensor Data
 Awarded: \$71,000 / 1 year
 People: Jason Hong (PI)

07/2007 Funder: Institute for the Study of Entrepreneurship, Innovation and Technology, CMU
 Proposal: 05-320 / 05-820 – The Social Web: Content, Communities, and Context
 Awarded: \$19,978 / 1 year
 People: Jason Hong, Robert Kraut

09/2005 – 2008 Funder: NSF Intelligent Information Systems IIS-0534406
 Proposal: Next Generation Instant Messaging: Communication, Coordination, and Privacy for Mobile, Multimodal, and Location-Aware Devices
 Awarded: \$365,869 / 3 years
 People: Jason Hong (PI)

08/2005 – 2008 Funder: NSF CyberTrust CCF-0524189
 Proposal: Supporting Trust Decisions
 Awarded: \$1,993,467 / 3 years
 People: Lorrie Cranor (PI), Jason Hong, Norman Sadeh-Konieczpol, Alessandro Acquisti, Julie Downs

06/2005 – 2008 Funder: Intel Research
 Title: Whisper Community Event Service
 Awarded: \$216,000 / 3 years
 People: Jason Hong (PI)

08/2007 Funder: CMU CyLab
 Title: Helping Law Enforcement Agencies and Volunteer Groups Detect, Report, and Shut Down Phishing Web Sites
 Awarded: \$85,000 / 1 year
 People: Jason Hong (PI)

04/2007 Funder: DARPA Computer Science Study Panel
 Awarded: \$100,000 / 1 year
 People: Jason Hong (PI)

09/2006 Funder: NSF SGER IIS-0646526
 Proposal: Re-purposing Web Content through End-User Programming
 Awarded: \$75,000 / 1 year
 People: Jason Hong (PI)

04/2005 – 2007 Funder: CMU CyLab
 Title: Privacy and Usability in Pervasive Computing Environments
 Awarded: \$268,867 and \$150,000 / 2 years
 People: Lorrie Cranor, Jason Hong, Bruce McLaren, Norman Sadeh-Konieczpol (PI), Peter Steenkiste,

06/2006 Funder: Microsoft Trustworthy Computing Curriculum 2005
 Proposal: Development of New Course: Usable Privacy and Security
 Awarded: \$50,000 / 1 year

	People:	Lorrie Cranor (PI), Jason Hong, Mike Reiter
04/2005	Funder:	CMU CyLab
	Title:	Preventing Semantic Attacks
	Awarded:	\$203,988 / 1 year
	People:	Lorrie Cranor (PI), Jason Hong, Norman Sadeh-Konieczpol, Alessandro Acquisti, Julie Downs
03/2005	Funder:	Microsoft Corporation, Unrestricted Gift
		5 i-Mate SP3 Windows Mobile Devices (~\$2,224.95)

Software Artifacts

PrivacyGrade	Presents the results of our privacy analysis of a million Android apps. http://privacygrade.org
Gort	Tool for analyzing the privacy of individual Android apps https://github.com/samini/gort-public
Mobility Monitor	Android app for monitoring where people are going and what apps they use, available on Android App Market.
Chelada	Android app for creating context-aware mobile mashups, available on Android App Market.
APWG Landing Page	A redirect page that we developed with the Anti-Phishing Working Group, for fake pages that have been taken down. Based on work [C.21], [C.28], [C.30], [C.31], and [C.37], and translated into multiple languages. http://education.apwg.org/r/en/index.html
CANTINA	An algorithm and implementation for detecting phishing web sites with high true positives and few false positives. Licensed to Portugal Telecom and Wombat Security Technologies. See [C.24] and [J.13].
Anti-Phishing Testbed	A testbed that can empirically evaluate and compare the effectiveness of anti-phishing tools. Designed with Lorrie Cranor, Serge Egelman, and Yue Zhang. See [C.18] and [C.38].
Anti-Phishing Phil	A game designed to teach people not to fall for phishing attacks. See [C.25] and [J.12]. Played over 100,000 times since 2007. Licensed to two different companies, and translated into multiple languages. http://cups.cs.cmu.edu/antiphishing_phil
FoxTor	A browser extension for anonymous web browsing. Helped create a design that won the Tor design contest, implemented by students in Usable Privacy and Security class in 2006. Over 200,000 downloads. https://addons.mozilla.org/firefox/3606/
Bustle	Wide-area system for estimating how busy places are. Designed with James Fogarty, Pedram Keyani, and Karen Tang. See [C.18].
Topiary	Sketch-based rapid prototyping tool for location-enhanced applications. Designed with Yang Li and James Landay. See [C.17] and [J.7]. http://dub.washington.edu/topiary
DENIM	Sketch-based web site design and test tool. Downloaded over 75000 times since May 2000 and in use by both researchers and professional designers. Designed and implemented with James Lin, Mark Newman, and James Landay. See [C.3] and [J.5]. http://dub.washington.edu/denim
SATIN	Toolkit for building sketch-based applications. Downloaded over 2000 times since August 2000, and used in at least seven research projects, and in courses at Georgia Institute of Technology. Designed and implemented with James Landay. See [C.4]. http://dub.washington.edu/satin
WebQuilt	Web site evaluation and visualization tool. Downloaded over 1000 times since January 2001 and in use by researchers and web designers. Designed and implemented with Sarah Waterson, Jeff Heer, and James Landay. See [J.4], [C.6], and [C.7]. http://dub.washington.edu/webquilt

Publications

Books

- [B.1] van Duyne, D.K., J.A. Landay, and J.I. Hong, *The Design of Sites: Patterns for Creating Winning Web Sites*. 2nd edition.

Reading, MA: Addison-Wesley, 2006. <http://www.designofsites.com>

As of October 2013, our book has sold over 60000 copies since its initial publication in 2001. Used in classes in at least 10 different universities.

Book Chapters

- [BC.1] Lederer, S., J.I. Hong, A. Dey, and J.A. Landay, *Personal Privacy through Understanding and Action: Five Pitfalls for Designers*, in *Security and Usability: Designing Secure Systems That People Can Use*, L. Cranor and S.L. Garfinkel, Editors. 2005. p. 421-445.

Refereed Journal Papers

- [J.18] Jose, R. J.C.S. Cardoso, J.I. Hong. User Expectations for Media Sharing Practices in Open Display Networks. *Sensors*. <http://www.mdpi.com/1424-8220/15/7/16210>
- [J.17] Bal, G., K. Rannenbergh, J.I. Hong. Styx: Privacy Risk Communication for the Android Smartphone Platform Based on Apps' Data-Access Behavior Patterns. *Computers and Security*. To Appear.
- [J.16] Joseph, K., K. Carley, J.I. Hong. Check-ins in “Blau space”: Applying Blau's macrosociological theory to foursquare check-ins from New York City. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 5(3), 46:1–46:22. 2014. http://www.cmuchimps.org/publications/cohesion_and_community_the_effects_of_space_place_and_time_on_foursquare_check-ins_in_new_york_city_2014
- [J.15] Lin, J., M. Benisch, N. Sadeh, J. Niu, J. Hong, B. Lu, S. Guo. A Comparative Study of Location-sharing Privacy Preferences in the U.S. and China. *Personal and Ubiquitous Computing*, 17(4): pp. 697-711. 2013. <http://link.springer.com/article/10.1007%2Fs00779-012-0610-6>
- [J.14] Hong, J. The state of phishing attacks. *Communications of the ACM*, 55:1, Jan 2012. http://www.cmuchimps.org/publications/the_state_of_phishing_attacks_2012
- [J.13] Xiang, G., J.I. Hong, C.P. Rose, L.F. Cranor. CANTINA+: A Feature-rich Machine Learning Framework for Detecting Phishing Web Sites. *ACM Transactions on Information Systems and Security (ACM TISSEC)*, 14:2. Sep 2011. http://www.cmuchimps.org/publications/cantina_a_feature-rich_machine_learning_framework_for_detecting_phishing_web_sites_2011
- [J.12] Kumaraguru, PK, S. Sheng, A. Acquisti, L. Cranor, J.I. Hong. Teaching Johnny Not to Fall for Phish. *ACM Transactions on Internet Technology*, 10(2). May 2010. http://www.cmuchimps.org/publications/teaching_johnny_not_to_fall_for_phish_2010
- [J.11] Johnson, G., M.D. Gross, J.I. Hong, and E.Y. Do. Computational Support for Sketching in Design: A Review. *Foundations and Trends in HCI* 2(1), Now Publishers. Feb 2009. http://www.cmuchimps.org/publications/computational_support_for_sketching_in_design_a_review_2009
- [J.10] Sadeh, N., J.I. Hong, L.F. Cranor, I. Fette, P.G. Kelley, M. Prabaker, J. Rao. Understanding and Capturing People's Privacy Policies in a People Finder Application. *Personal and Ubiquitous Computing*, 13(6). Springer. Aug 2009. http://www.cmuchimps.org/publications/understanding_and_capturing_people_s_privacy_policies_in_a_people_finder_application_2008
- [J.9] Iachello, G., and J.I. Hong. End-User Privacy in Human-Computer Interaction. *Foundations and Trends in HCI*, 1(1), Now Publishers. Oct 2007. http://www.cmuchimps.org/publications/end-user_privacy_in_human-computer_interaction_2007
- [J.8] Schleyer, T, T. Thyvalikakath, P. Malatack, M. Marotta, T. Shah, P. Phanichphant, G. Price, and J.I. Hong. Development and Initial Validation of a Three-Dimensional Dental Charting Interface. *The Journal of the American Dental Association*. 138: p1072-1080. 2007. http://www.cmuchimps.org/publications/development_and_initial_validation_of_a_three-dimensional_dental_charting_interface_2007
- [J.7] Li, Y., J.I. Hong, and J. Landay, Design Challenges and Principles for Wizard of Oz Testing of Location-Enhanced Applications. *IEEE Pervasive Computing*, 6(2): pp. 70-75. 2007. http://www.cmuchimps.org/publications/design_challenges_and_principles_for_wizard_of_oz_testing_of_location-enhanced_applications_2006
- [J.6] Lederer, S., J.I. Hong, A. Dey, and J.A. Landay, Personal Privacy through Understanding and Action: Five Pitfalls for Designers. *Personal and Ubiquitous Computing*, 8(6), 2004. pp. 440 - 454. http://www.cmuchimps.org/publications/personal_privacy_through_understanding_and_action_five_pitfalls_for_designers_2004

- [J.5] Newman, M.W., J. Lin, J.I. Hong, and J.A. Landay, DENIM: An Informal Web Site Design Tool Inspired by Observations of Practice. *Human-Computer Interaction*, 18(3): pp. 259-324. 2002.
http://www.cmuchimps.org/publications/denim_an_informal_web_site_design_tool_inspired_by_observations_of_practice_2002
- [J.4] Hong, J.I., J. Heer, S. Waterson, and J.A. Landay. WebQuilt: A Proxy-based Approach to Remote Web Usability Testing. *ACM Transactions on Information Systems* 2002. 19(3): pp. 263-285. This is an extended version of [C.4].
http://www.cmuchimps.org/publications/webquilt_a_proxy-based_approach_to_remote_web_usability_testing_2002
- [J.3] Hong, J.I. and J.A. Landay, An Infrastructure Approach to Context-Aware Computing. *Human-Computer Interaction (HCI)*, 16(2-3): pp. 287-303. 2001.
http://www.cmuchimps.org/publications/an_infrastructure_approach_to_context-aware_computing_2001
- [J.2] Hong, J.I. and J.A. Landay, A Context/Communication Information Agent. *Personal Technologies* (Special Issue on Situated Interaction and Context-Aware Computing), 2001. 5(1): pp. 78-81.
http://www.cmuchimps.org/publications/context_communication_information_agent_2001
- [J.1] Abowd, G.D., C.G. Atkeson, J.I. Hong, S. Long, R. Kooper, and M. Pinkerton, Cyberguide: A Mobile Context-Aware Tour Guide. *ACM Wireless Networks* 1997. 3(5): pp. 421-433.
http://www.cmuchimps.org/publications/cyberguide_a_mobile_context-aware_tour_guide_1997
- Refereed Conference Papers (full and short papers)**
- [C.86] Zhang, Y., B. Li, J.I. Hong. Understanding User Economic Behavior in the City Using Large-scale Geotagged and Crowdsourced Data. In *25th International Conference on World Wide Web (WWW 2016)*. [16% accept rate]
http://www.cmuchimps.org/publications/understanding_user_economic_behavior_in_the_city_using_large-scale_geotagged_and_crowdsourced_data_2016
- [C.85] Das, S., J.I. Hong, and S. Schechter. Testing Computer-Aided Mnemonics and Feedback for Fast Memorization of High-Value Secrets. Workshop on Usable Security (USEC 2016).
http://www.cmuchimps.org/publications/identifying_and_analyzing_the_privacy_of_apps_for_kids_2016
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- [IT.81] *Mobility, Privacy, Security*. Yahoo Paranoids. July 7, 2016.
- [IT.80] *Mobility, Privacy, Security*. Microsoft Research Asia. May 23, 2016.
- [IT.79] *Privacy, Ethics, and Big (Smartphone) Data*. International Conference on Information Systems Security and Privacy (ICISSP) 2016. Feb 19, 2016. **Keynote talk**.
- [IT.78] *Social Media and Urban Analytics*. American Planning Association PA Chapter. October 20, 2015.
- [IT.77] *Machine Learning for Health with Carnegie Mellon University*. **World Economic Forum**, IdeasLab. September 9, 2015. https://www.youtube.com/watch?v=NQEs_OQfg-M&index=3&list=PL7m903CwFUGlhXRm6f_Ypk112nAX7yDL
- [IT.76] *PrivacyGrade and Social Cybersecurity*. Federal Trade Commission (FTC). July 9, 2015.
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- [IT.74] *Social Cybersecurity: Applying Social Psychology to Cybersecurity, or, A Computer Scientist's View of HCI and Theory*. Human Computer Interaction Consortium (HCIC) 2015. June 30, 2015.
- [IT.73] *Analyzing the Privacy of Android Apps*. Google. June 17, 2015. <https://www.youtube.com/watch?v=hYSkpjndBjE>
- [IT.72] *Privacy, Security, and Internet of Things*. Bosch Research, May 11, 2015.
- [IT.71] *Making Sense of Cyberspace*. Cyber Intelligence Research Consortium, Tradecraft Lab. **Keynote talk**. May 5, 2015.
- [IT.70] *Big Data for Privacy*. NSF Workshop on Privacy in an Era of Big Data. Temple University, April 22, 2015.
- [IT.69] *How to Grade the Privacy of 1 Million Smartphone Apps*. Briefing for Congressional Staffers. October 30, 2014.
- [IT.68] *How to Analyze the Privacy of 750000 Smartphone Apps*. Federal Trade Commission (FTC). October 14, 2014.
- [IT.67] *Privacy, Ethics, and Big (Smartphone) Data*. Workshop on Mobile and Cloud Services, Mobisys 2014. **Keynote talk**. June 16, 2014.
- [IT.66] *Social Cybersecurity: Social Influences for Cybersecurity*. CyLab Seminar, April 14, 2014.
- [IT.65] *Smartphones and Privacy*. PopTech 2013. Oct 24, 2013. <https://www.youtube.com/watch?v=xEeXplxKi8E>
- [IT.64] *HCI and Smartphone Data at Scale*. IBM Research, Watson. July 29, 2013.
- [IT.63] *Staying Safe Online*. iTeams 2013 (Berkeley, SC), July 10 2013.
- [IT.62] *Staying Safe Online*. iTeams 2013 (Lexington, SC), July 9 2013.
- [IT.61] *Smartphone Data at Scale: Small Devices, Big Opportunities, Bigger Risks*. Human Computer Interaction Consortium (HCIC) 2013, June 24 2013.

- [IT.60] *Designing the User Experience for Online Privacy*. International Association of Privacy Professionals, Navigate Conference. June 21, 2013.
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- [IT.59] *HCI and Smartphone Data at Scale*. Intel Research (ISTC Social Computing), June 17 2013.
- [IT.58] *HCI and Smartphone Data at Scale*. Yahoo Research, June 4 2013.
- [IT.57] *HCI and Smartphone Data at Scale*. Pitney-Bowes Mobile Day, May 16 2013.
- [IT.56] *Analyzing the Privacy and Security Behaviors of Smartphone Apps*. Cylab Seminar, Apr 22 2013.
- [IT.55] *HCI and Smartphone Data at Scale*. University of Michigan MISC Seminar, Apr 9 2013.
- [IT.54] *HCI and Smartphone Data at Scale*. IPSN Workshop on Mobile Sensing, **Keynote talk**, Apr 8 2013.
- [IT.53] *Cyber Attacks: Past, Present and Future*. ISSA Webinar, Feb 19 2013.
- [IT.52] *Social Graphs, Urban Analytics, and Smartphone Privacy*. AT&T Research, Dec 9 2012.
- [IT.51] *Leveraging Human Factors for Effective Security Training*, NIST National Initiative for Cybersecurity Education, **Keynote talk**, October 30, 2012.
- [IT.50] *Gamification applied to Security Applications*. BITS R&D Special Interest Group, Oct 5 2012.
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Association Memberships

Member, ACM Association for Computing Machinery

Member, ACM SIGCHI Special Interest Group Computer Human Interaction

Universal Life Church (1 wedding officiated so far!)

Activities and Other Skills

Georgia Tech Academic Team

Team Captain (1996-1997)

ACF National Champions (1996)

Berkeley Quiz-Bowl

NAQT Nationals, 2nd place (1999)

Tournament Director, multiple quiz-bowl tournaments held at Berkeley

Treasurer (Fall 1998 – Spring 1999)

Intermediate Mandarin Chinese (speaking only)

Go (novice)

Plants versus Zombies 2 (expert)

Parent (novice)